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**FINAL REPORT - OPERATIONS SUPPORT OF PHASE 2
INTEGRATED DEMONSTRATION, FOUR VOLUMES (U)**

by
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Savannah River Site
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FINAL REPORT

**OPERATIONS SUPPORT OF PHASE 2
INTEGRATED DEMONSTRATION**

IN SITU BIOREMEDIATION

SUBCONTRACT NO.: AA69840N

VOLUME I: FINAL REPORT

FINAL REPORT TEXT

DATA IN TABULAR FORM - DISK 1

Prepared for:

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**September 1993
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ECOVA

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FINAL REPORT

Operations Support of Phase 2 Integrated Demonstration

- In Situ Bioremediation

Subcontract No.: AA69840N

Prepared for:

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June 1993

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	PAGE 1
SCOPE OF WORK	SECTION 1
CHRONOLOGICAL LISTING OF IMPORTANT EVENTS	SECTION 2
TABULAR DATA	APPENDIX
GRAPHICAL DATA	APPENDIX
ANALYSIS OF DOWN TIME	SECTION 5
QA/QC RESULTS AND VERIFICATION	SECTION 6
DATA AVERAGED OVER CAMPAIGN INTERVALS	SECTION 7
OXIDIZER EFFICIENCY	SECTION 8
RECOMMENDATIONS ON FUTURE OPERATIONS	SECTION 9
TABULAR AND GRAPHICAL PRESENTATIONS OF DATA	APPENDIX

EXECUTIVE SUMMARY

Subcontract AA69840N was part of a large Westinghouse Savannah River Company (WSRC) project to demonstrate the utility of stimulating indigenous microorganisms to degrade trichloroethylene (TCE) contamination in the groundwater and sediment at the Savannah River Site (SRS). Additionally, the large demonstration project was chartered with testing innovative technologies which are directly related to treatment of groundwater and soil, such as horizontal well drilling, delivery of nutrients, and treatment of vapors contaminated with tetrachloroethylene (PCE) and TCE.

ECOVA was contracted to perform a portion of the innovative technology testing work by WSRC as described in the Scope of Work - "Operational Support of Phase 2 Integrated Demonstration - In Situ Bioremediation", which is contained in Section 1. This work was performed at the Savannah River Site (SRS) which is owned by the Department of Energy (DOE) and operated by WSRC.

Subcontract AA69840N consisted of three major functional areas: (1) installation and operation of surface process equipment for vapor extraction and treatment, (2) installation and operations of an injection system to stimulate indigenous methanotrophs to cometabolize TCE, and (3) provide on site analytical and operation services throughout the test period.

The major process equipment consisted of an air compressor, an air/methane blending injection system, and a vacuum extraction blower and PCE/TCE laden vapor treatment system, as well as connecting piping and ancillary equipment. Included in the ancillary equipment was a process system with appropriate safety control features. The Scope of Work provided guidelines for equipment sizing and capabilities. Some of the initial design specifications were changed in the detail design phase.

The analytical services consisted of providing a gas chromatograph and computer for processing samples, and providing sufficient personnel to analyze samples seven days per week. Included in these services was an extensive quality assurance and quality control program. The QA/QC procedures were detailed in the "Quality Assurance Report for In Situ Biological Treatment Project" (included in Section 6).

On-site Management Services consisted of operating and maintaining the process and injection equipment, monitoring all operational site activities, and maintaining detailed operational records. Additionally, 24

hour/day response to trouble shoot problems was provided. Equipment failures were to be repaired within 72 hours.

Permitting was handled by WSRC and the South Carolina Department of Health and Environmental Control. Details of the permitting are contained in the "Test Plan of In Situ Bioremediation Demonstration of the Savannah River Integrated Demonstration Project DOE/OTD TTP No.: SR 0566-01 (U)".

The results of these operations over the course of the contract are detailed in the following report. During the course of the 14 months of operations 4995 samples were analyzed in the field laboratory. Down time over this period averaged 6.2% of total available time.

REVIEW OF PROJECT

The equipment provided consisted of an air injection system, and a vapor extraction and vapor treatment system. The injection system consisted of a compressor and a methane blending system. This equipment was designed to provide 361 scfm at 110 psig and make up to a 4% by volume methane gas mixture. Actual operating conditions were approximately 25 psig of back pressure at the well head, 200 scfm flow rate, and methane concentrations ranged from 0 to 4% during different operating campaigns.

Compressor

The compressor was a Quincy Northwest rotary screw model QNW-360-1 with a 75 HP motor. It is capable of delivering 361 scfm of air at 100 psig. It produces 5.7 scfm per KW at 100 psig. The compressor was purchased from Rogers Machinery in Portland, Oregon (503-639-6151).

Included in the compressor package was a 240 gallon ASME air receiver which provided volume for the compressor to push against. It contained a safety relief valve, an automatic drain and a pressure regulator.

Methane Blending System

The blending system consisted of a standard process control loop which monitored the concentration of the blended mixture, compared it to a set point, and adjusted the injection rate of the methane based on the relative values of the concentration and the set point.

This begins with the use of a motor actuated flow control valve which regulated the flow of methane into the process air stream. The valve was a Segment Ball Valve R1 manufactured by Neles-Jamesbury and was selected to have a flow rate in the range of 0 to 10 scfm.

This valve was operated by a Foxboro/Jordan SM-1100 Series Rotary Actuator. This is an electric motor which can rotate a ball valve through a 90 degree swing. The amount of rotation is determined by a controller which sends the Actuator an electric signal proportional to the amount of rotation desired.

The blended air stream was sampled continuously and analyzed with a Horiba Model PIR-2000 General Purpose Infrared Gas Analyzer. This measured the concentration of the methane gas in the injection process stream as a percentage of Lower Explosive Limit, and produced an output signal proportional to that concentration.

This entire process is controlled by a Foxboro 761C Series Controller. This controller monitored the output signal from the gas analyzer, compared it to a set point quantity, and adjusts an output signal appropriately. This output signal is sent to the Actuator. By adjusting this output signal, the Controller changes the amount of methane that is injected into the process line, and hence, controls the blended concentration.

The vapor extraction system consisted of a vacuum blower and a catalytic oxidizer. This equipment was designed for flow rates of up to 300 scfm with 10" Hg. well head back vacuum. The catalytic oxidizer was designed to reduce contaminant levels from approximately 400 ppm to 5 ppm total TCE and PCE. Actual process conditions were approximately 8" to 10" Hg back vacuum, a flow rate of 240 scfm. Influent concentrations of total TCE and PCE started at approximately 350 ppm and decreased over the project life

to approximately 250 ppm. Exit concentrations of 5 ppm were achievable although sometimes oxidizer conditions were set purposely for higher exit concentrations which were still below permit levels.

Vacuum Blower

The Vacuum Blower was a Roots Rotary Positive Displacement Model URAI-56. It was assembled by Rogers Machinery with a 20 HP motor. Its capacity is 300 scfm at 10" Hg. vacuum. It included a Discharge Silencer.

Prior to the Blower was an air/water separator which was manufactured by American Compressor Company of Santa Fe Springs, California (213-944-6188). This was a cyclonic device capable of removing 99% of water droplets.

Catalytic Oxidizer

The oxidizer was manufactured by Brown Engineering of Seattle, Washington. It was electrically heated using 480 volt power and silicon carbide heating elements. Power and temperature control is achieved through use of a Silicon Controlled Rectifier.

The extraction system and the injection system were integrated into a control system which provided system shut down in the case of operational problems. When the control system was activated an automatic dialing system (Sensaphone Security Monitoring System Model 4000) phoned four phone numbers to alert the appropriate people of a problem. The four phone numbers used were the phone number of the on site office and laboratory, the number of Doug Derbes (ECOVA's Site Superintendent), Terry Hazen (WSRC's Project Manager), and Ken Lombard (Bechtel's Construction Manager).

The equipment used for the analytical work consisted of a Hewlett-Packard Gas Chromatograph model 5890. The system had a packed column connected to a thermal conductivity meter for analysis of methane and CO₂, and a capillary column connected to a flame ionization detector was used for analysis of volatile chlorinated organic compounds (TCE, PCE, DCE, etc.).

DOWN TIME ANALYSIS

The process equipment experienced intermittent down time due to routine maintenance and equipment failure. Some down time was also attributed to WSRC planned shut downs. System down time is tabulated in Section 5. The down time analysis table identifies five categories for the cause of down time. They are weather, routine maintenance, repairs, electrical/mechanical problems, and WSRC planned shut downs.

- Weather related down time was caused by the system's inability to handle some specific types of conditions. Early in the project high winds caused back pressure on the extraction line, which triggered a high pressure switch. Originally, the switch was designed to detect potential plugging of the air stream through the oxidizer. Experience with the system indicated plugging to be of very low probability, so this switch was disconnected to prevent wind related shut downs.

Later, summer storms and associated lightning caused a series of problems. These problems were primarily caused by induced voltages damaging circuit boards. This accounted for failures in the Omron Oxidizer Controller and the power control system for the Oxidizer. Some of this down time is recorded under Repair and Electrical/Mechanical items in Section 5. This problem was eliminated by installing lightning protection on the system which prevented voltage surges.

- Routine Maintenance refers to down time scheduled to perform oil changes, testing of emergency dial out capabilities, filter replacement, and other forms of periodic work on the system. During later stages of the project this time decreased as routine maintenance was scheduled during other planned shut downs.
- Repair shut downs refers to down time used for repair of system components, such as replacing electrical components or improving system configuration.
- Electrical/Mechanical problems refer to down time caused by equipment failures.
- Planned down time refers to time when the system was turned off because of activities WSRC was involved with, such as working on the electrical power supply system.

Total non scheduled down time for the entire project was 659 hours, or only 6.81% of total available time. During the first six months of operations down time averaged 9.5% of total available time, while in the last six months down time averaged 1.33% of available time. This reflects the developmental nature of the project and the effort ECOVA made to continually improve the operational performance throughout the job.

CATALYTIC OXIDIZER MODIFICATION

Catalytic oxidation technology has been used for years to oxidize contaminants in vapor phase streams. This technology involves heating the contaminated vapor stream up to temperatures ranging from 500 to 900 degrees F.(exact temperature depends on the contaminant to be removed). The heated air is then passed over a catalytic material which reacts with the contaminants to oxidize them completely. Typically the catalyst materials come from the noble metals group. Platinum has been commonly used either by itself or in combination with other noble metals. Palladium has also been used.

There are materials and conditions which can interfere with this process, among them, halogen compounds. The halogen elements are referred to as suppressants, and can combine with the catalyst and deactivate it. While this process is reversible, the system must be shut down and the catalyst removed for cleaning. Until that is done catalytic activity is reduced to the extent of halogen contamination. This is a particularly acute problem due to the amount of soil and groundwater that is contaminated with chlorinated solvents such as TCE and PCE.

Recently, manufacturers of catalytic materials have been developing formulations which are resistant to halogen suppressants, and the oxidation of TCE has also become a relatively standard operation. However, the recalcitrant nature of PCE has made it more resistant to oxidation. A new Allied Signal catalytic material was developed to address this problem with PCE. As part of the WSRC charter to test new technologies for remediation of these compounds, this new catalytic material was installed in the oxidizer at SRS on January 21, 1993 and operated until April 30, 1993.

Section 8 contains information related to the operation of the new catalytic material. One of the objectives for testing this material was to determine the relationship between oxidizer temperature and destruction efficiency. Table AICHEDAT.XLS Table 2 contains the conversion efficiency data sorted by oxidizer

temperature. This data shows that in order to reduce effluent concentrations below non detectable levels (5 ppm) that the oxidizer temperature must be raised to 825 degrees F.

AICHECOX. Table 3 gives conversion efficiency during the period of operation of the new material.

KWCATOX.XLS Table 4 contains data relative to power usage. Note that data is available from before installation of the catalytic material showing the decrease in power consumption when the temperature was lowered. In fact, the oxidizer was not the most power consumptive piece of equipment on the site, the compressor used the most power.

At this time, the new catalytic material for treatment of PCE and TCE contaminated vapors is successful. Three months of operations demonstrated its ability to achieve good conversion efficiency, although the catalytic material's useful service life has yet to be established.

The use of a halogen tolerant catalyst that destroys TCE and PCE was successful. This is especially encouraging since power consumption of the oxidizer, with this material installed, is less than 1500 KWHR per day. At \$.08 per KWHR (the cost electricity at the Savannah River Site) this comes to approximately \$120.00 per day.

Don't Say It Write It

06/17/94

To: The Technical Information Manager, 703-43A

From: T. C. Hazen, 704-8T, 5-6413 *TCH*

Clearly, the enclosed preliminary technical report (WSRC-MS-94-0323) will meet the intent of the Executive Summary of Technical Report WSRC-TR-93-540. Please insert this document at the end of the Executive Summary as directed by the Technical Information Officer (ASD-TIM-93-2645 attached). Thank you.

PRELIMINARY TECHNOLOGY REPORT FOR IN SITU BIOREMEDIATION DEMONSTRATION (METHANE BIOSTIMULATION) OF THE SAVANNAH RIVER SITE INTEGRATED DEMONSTRATION PROJECT (U)

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ABSTRACT

The U.S. Department of Energy, Office of Technology Development, has been sponsoring full-scale environmental restoration technology demonstrations for the past 4 years. The Savannah River Site Integrated Demonstration focuses on "Clean-up of Soils and Groundwater Contaminated with Chlorinated VOCs". Several laboratories including our own had demonstrated the ability of methanotrophic bacteria to completely degrade or mineralize chlorinated solvents, and these bacteria were naturally found in soil and aquifer material. Thus the test consisted of injection of methane mixed with air into the contaminated aquifer via a horizontal well and extraction from the vadose zone via a parallel horizontal well. Groundwater was monitored biweekly from 13 wells for a variety of chemical and microbiological parameters. Groundwater from wells in effected areas showed increases in methanotrophs of more than 1 order of magnitude every 2 weeks for several weeks after 1% methane in air injection was started. Simultaneous with the increase in methanotrophs was a decrease in water and soil gas concentrations of trichloroethylene and tetrachloroethylene. Two wells declined in TCE/PCE concentration in the water by more than 90% to below 2 ppb. All of the wells in the zone of effect showed significant decreases in contaminants in less than 1 month. Four of five vadose zone piezometers (each with 3 sampling depths) declined from concentrations as high as 10,000 ppm (vol/vol) to less than 5 ppm in less than 6 weeks. The fifth cluster also declined by more than 95%. A variety of other microbial parameters increased with methane injection indicating the extent and type of stimulation that had occurred. History-matching models by LANL has shown that 41% more TCE is removed by biodegradation than by just physical stripping alone. The LANL model has also shown that in

situ bioremediation can reach a lower concentration than in situ air stripping or pump and treat and that the time required to reach 95% removal is less than half the time of the physical process.

I. INTRODUCTION

This project was designed to demonstrate in situ bioremediation of ground water and sediment contaminated with chlorinated solvents. Indigenous microorganisms were stimulated to degrade trichloroethylene (TCE), tetrachloroethylene (PCE) and their daughter products in situ by addition of nutrients to the contaminated aquifer and adjacent vadose zone. The principle carbon/energy source nutrient used in this demonstration was methane (natural gas). In situ biodegradation is a highly attractive technology for remediation because contaminants are destroyed, not simply moved to another location or immobilized, thus decreasing costs, risks, and time, while increasing efficiency, safety, and public and regulatory acceptability. This report describes the preliminary results of the demonstration and provides conclusions only for those measures that the Bioremediation Technical Support Group (Expert Panel) felt were so overwhelmingly convincing that they do not require further analyses. Though this report is necessarily superficial it does intend to provide a basis for further evaluating the technology and for practitioners to immediately apply some parts of the technology. This is the first of seven Technology Reports that will be issued regarding this demonstration. The other reports will deal with Nucleic Acid Probe Analyses, Community Structure Analyses, Biodegradation Analyses, Site Preparation and Field Engineering, Modeling, and the Final Summary Report.

It is important to note that the criteria for success, the measurements taken, the nature of each operating campaign during the test, data analysis and evaluation, the test plan, and the final report and conclusions were a consensus of the Bioremediation Technical Support Group. This group of experts from DOE, USGS, EPA, industry, and academia met on a regular basis for the last 3 years and provided unique and valuable insights for the planning, execution and evaluation of this demonstration. This group is responsible for the striking successes of this demonstration which is without a doubt the largest and most technically comprehensive full-scale in situ bioremediation demonstration ever done.

The demonstration consisted of using 2 horizontal wells for injection and extraction at a site contaminated with chlorinated solvents (TCE/PCE) from a leaking process sewer line. The lower (injection) well (175 ft depth) was installed below the water table (120 ft) and the upper (extraction) well (80 ft depth) was in the vadose zone above the water table. Air was extracted from the upper well during all operating campaigns at 240 scfm. Extracted air was treated by a thermal catalytic oxidizer. Air was injected into the lower well at a constant rate of 200 scfm during all operating campaigns. Figure 1. provides a pictorial view of the horizontal wells in relation to the surface mounted equipment. Six different operational modes were tested during the 14 month demonstration as shown in Table 1. Air, water, and sediment samples were taken before, during and after the demonstration as per the Test Plan for this demonstration (WSRC-RD-91-23).

water done by 6 different laboratories indirectly demonstrated biostimulation and biodegradation in situ by the processes tested. Densities of methanotrophs, the functional group that the process was trying to stimulate, increased in the ground water by as much as 7 orders of magnitude. This stimulation occurred first in the wells that were closest to the injection point and later moved farther and farther away. Densities of methanotrophs in the sediment closest to the injection well increased from rarely detectable to over a million cells/gdw. The methanotroph enumerations were done by 3 different laboratories (University of Tennessee, Pacific Northwest Laboratory, Savannah River Technology Center) using 3 different methods and all obtained nearly identical results. Increases in methanotroph densities were only observed after methane injection started. Phospholipid fatty acid (PLFA) analyses done by the University of Tennessee (UT) and Oak Ridge National Laboratory (ORNL) also indicated biostimulation of methanotrophs, and that methanotrophs were being stimulated to become the dominant population in the total microbial community. Studies by Savannah River Technology Center (SRTC) and UT using soil columns and mineralization assays demonstrated that PCE was being biodegraded even under bulk aerobic conditions. This later observation is particularly significant since PCE can only be degraded anaerobically. Their data suggests that enough anaerobic pockets were created by the increased biomass to allow a significant amount of anaerobic reductive dechlorination of PCE to TCE, which can be then oxidized by the methanotrophs. Nucleic acid probe analyses by several different laboratories, Pacific Northwest Laboratory

Table 1. Operational Test Modes (Phased Approach)

<u>Injection Operations</u>	<u>Start Date</u>	<u>End Date</u>
1. No air injection (air extraction only)	02/26/92	03/18/92
2. Air injection	03/18/92	04/20/92
3. 1% methane/air	04/20/92	08/05/92
4. 4% methane/air	08/05/92	10/23/92
5. Pulsed methane/air	10/23/92	01/25/93
Long intervals (5-14 days air/5 days 1% methane)	10/23/92	12/20/92
Short intervals (36 h air/8 h 4% methane)	12/20/92	01/25/93
6. Pulsed 4% methane (short intervals), continuous 0.07% nitrous oxide and 0.007% triethyl phosphate	01/25/93	04/30/93

II. CRITERIA FOR SUCCESS

As decided upon by the Bioremediation Technical Support Group the measures of success for the project were 1. biostimulation/biodegradation, 2. bioremediation, 3. cost effectiveness, and 4. ease of use and operation.

A. Biostimulation/Biodegradation

The evidence for biostimulation and biodegradation of TCE/PCE was both overwhelming and unequivocal. No less than 26 separate measurements of sediment and ground

(PNL), Washington State University (WSU), University of Minnesota (UM), SRTC and UT showed very specifically that methanotrophs were being stimulated in the sediment. Biostimulation was also indirectly shown by the depletion of nitrate (a limiting nutrient) in the ground water as stimulation continued. Biostimulation was indirectly indicated by the increase in carbon dioxide observed in the extraction air after injection was started and by the consumption of methane (50%), calculated via measurements of methane and helium tracer in the injection well and extraction well. It is important to note that community changes caused by a biostimulation process

were reversible as demonstrated for nitrogen-transforming bacteria as measured using fluorescent antibody probes by SRTC. In general, pulsing and multiple nutrient injection were found to give the greatest biostimulation. The continuous 4% methane injection was not as stimulatory as continuous 1% methane injection or pulsing of 4% methane.

after the stimulation processes tested. Detectable toxicity differences were seen only temporarily in two wells during the period of greatest biostimulation. Water analyses by SRTC also indicated a strong inverse correlation between TCE concentration and chloride ion concentration as shown in Table 2. Thus as TCE concentration declined in the ground water the chloride concentration increased. The

Figure 1. This illustration provides a pictorial view of the horizontal wells in relation to the surface mounted equipment.

The evidence for biodegradation is convincing but indirect. Increased biodegradation was demonstrated by increases seen by three different labs (ORNL, UT, PNL) measuring TCE and PCE mineralization potential and by measurements of nucleic acid probes. The nucleic acid probe analyses demonstrated that the methanotrophs being stimulated were those possessing soluble methane monooxygenase (sMMO), the form of MMO most active in TCE oxidation. Methanotroph isolates from the water that were positive for sMMO were tested for their ability to oxidize both TCE and naphthalene by UT. Those isolates from wells most effected by the injection process were shown to have rates of TCE oxidation that were more than 3 times greater than the rates for *Methylosinus trichosporium* OB3b, the type culture for methanotrophs and reputed best TCE oxidizer. Studies by the University of North Carolina (UNC) using MICROTOX and MUTATOX assays demonstrated that both sediment and water samples were not significantly toxic before, during or

only mechanism known that could result in this correlation is the biodegradation of TCE to carbon dioxide and chloride.

B. Bioremediation

Though a mass balance was difficult to determine, several measurements provide both direct and indirect evidence that very significant amounts of bioremediation occurred in situ. The evidence for bioremediation is linked by necessity to changes in TCE/PCE inventories in the soil gas, sediment and ground water and the evidence for biodegradation and biostimulation discussed above. TCE/PCE concentrations declined in all media examined; however, the amount degraded and original amount present were difficult to determine. The problem with inventories was lack of source control, ie. more contaminated material (air and water) was constantly moving from outside the treatment zone, used for inventories, to inside the zone.

Table 2. GROUND WATER DATA - PEARSON CORRELATION MATRIX

ALPHA = 0.01

	TCE	PCE	VIALE Log	AODC Log	SRTC CH ₄ Log	UT CH ₄ Log	UT METH
ACID_PO ₄	<u>0.182</u>	0.012	<u>0.164</u>	0.018	<u>-0.206</u>	<u>-0.270</u>	-0.093
ALK_PO ₄	<u>-0.177</u>	-0.131	<u>0.483</u>	<u>0.434</u>	<u>0.197</u>	0.114	0.125
DHA_MTT	0.094	-0.017	0.059	0.099	<u>-0.191</u>	<u>-0.199</u>	-0.085
ACTIVE	-0.045	-0.012	<u>-0.236</u>	<u>-0.487</u>	-0.033	-0.111	-0.116
TCE		<u>0.230</u>	-0.114	<u>-0.274</u>	<u>-0.398</u>	<u>-0.385</u>	-0.150
PCE	<u>0.230</u>		0.099	<u>-0.133</u>	-0.096	<u>-0.170</u>	-0.042
ACETATE	0.079	-0.117	<u>0.243</u>	<u>0.193</u>	0.133	-0.077	0.003
TCE MIN.	-0.079	-0.110	<u>-0.197</u>	<u>0.207</u>	<u>-0.282</u>	<u>-0.337</u>	<u>-0.296</u>
PCE MIN. EN.	0.040	-0.045	0.013	0.131	0.074	0.108	<u>0.147</u>
Cl ⁻	<u>-0.321</u>	0.087	<u>0.178</u>	-0.071	0.116	0.099	-0.054
NO ₃	<u>0.145</u>	<u>0.436</u>	<u>-0.192</u>	<u>-0.290</u>	<u>-0.316</u>	<u>-0.391</u>	<u>-0.226</u>
PO ₄	0.116	0.033	0.066	<u>0.141</u>	-0.053	-0.112	-0.103
VIALE Log	-0.114	0.099	<u>0.371</u>	<u>0.188</u>	<u>0.229</u>	<u>0.194</u>	
AODC Log	<u>-0.274</u>	<u>-0.133</u>	<u>0.371</u>		<u>0.156</u>	<u>0.165</u>	<u>0.144</u>
SRTC CH ₄ Log	<u>-0.398</u>	-0.096	<u>0.188</u>	<u>0.156</u>		<u>0.688</u>	<u>0.444</u>
UT CH ₄ Log	<u>-0.385</u>	<u>-0.170</u>	<u>0.229</u>	<u>0.165</u>	<u>0.688</u>		<u>0.465</u>

KEY:

ACID-PO₄ = Acid Phosphatase Assay; ALK-PO₄ = Alkaline Phosphatase Assay; DHA-MTT = Dehydrogenase Assay
TCE = Trichloroethylene; PCE = Tetrachloroethylene; TCE or PCE MIN. = TCE or PCE Mineralization Assay
VIALE Log = Viable Counts, Log Scale; AODC Log = Acridine Orange Direct Counts, Log Scale; SRTC CH₄ Log = Savannah River Technology Center, Methanotrophs Log Scale; UT CH₄ Log = University of Tennessee, Methanotrophs Log Scale; UT METH = University of Tennessee, Methylootrophs.

Higher contaminated water could move in to the saturated zone treatment area from below, due to water flow created by the injection, the sides and from above. Higher contaminated soil gas was constantly moving in to the treatment area due to the much larger area influenced by the extraction well. Even given these limitations concentrations of TCE and PCE declined in all well samples coincident with the onset of injection. Water concentrations of TCE/PCE decreased by as much as 95%, reaching concentrations below detectable limits, ie. < 2 ppb in some wells, well below drinking water standards of 5 ppb. Those wells closest to the injection well showed the greatest decline though as the test progressed even wells that showed no effect during the previous in situ air stripping demonstration showed significant decline. Soil gas TCE/PCE declined by more than 99%, with the piezometers closest to the injection well having consistent undetectable concentrations by the end of the demonstration. Sediment concentrations were significantly

lower after only 3 months of 1% methane injection. Total sediment concentrations of TCE/PCE declined from 100 ppb to non-detectable concentrations in most areas. Densities of methanotrophs also were inversely correlated with the concentration of TCE in groundwater, ie. as densities of methanotrophs increased the concentration of TCE decreased. Soil gas, ground water and sediment were constantly monitored for vinyl chloride and dichloroethylene, toxic daughter products of anaerobic biodegradation. Neither of these compounds was detected except transiently at concentrations below drinking water concentrations (< 5 ppb). Thus, unlike anaerobic processes the methanotrophic process did not generate toxic daughter products. This further suggests that the disappearance of VOC in situ was due primarily to aerobic processes. Studies by Idaho National Engineering Laboratory (INEL) using sediment/ground water chambers with material from the SRS demo site showed that high rates of biodegradation of TCE could be stimulated by the injection strategies used

and that the amount of TCE biodegraded was directly proportional to the amount of chloride being produced. During the field demonstration chloride, the end product of TCE/PCE biodegradation, was measured directly in the ground water. Chloride concentration in the water was inversely correlated to TCE concentration in the same sample. This observation provides direct chemical evidence that bioremediation was occurring during the demonstration.

C. Cost Effectiveness

Los Alamos National Laboratory (LANL) analyses to date have shown that in situ air stripping is more cost effective than the baseline technology of soil vapor extraction and ground water pump and treat. The in situ bioremediation process tested was 10% less expensive than the baseline technology even if no TCE/PCE was biodegraded. LANL history matching models suggest that 43% more TCE/PCE is biodegraded/removed as compared to in situ air stripping alone. The in situ bioremediation process employed in this demonstration has only the cost of the natural gas, trace nutrients and methane monitoring equipment as an additional cost. As little as 900 lbs of TCE/PCE needs to be biodegraded to offset the additional costs to the in situ air stripping system. In addition, the LANL analyses indicate that it would take in situ air stripping more than 10 years to achieve 95% removal of the contaminants, while the in situ bioremediation process would take < 4 years. This difference alone would result in a \$1.5 million cost savings over the conventional system for just this one site. Indeed, the bioremediation process may be the only one that can reach drinking water standards (< 5 ppb) in many scenarios. The bioremediation process also destroys contaminants in situ, thereby reducing the cost of any pump and treat system (gas or liquid) that it is combined with.

D. Ease of Use and Operation

The system was nearly completely automated and extremely trouble free once the initial shake-down period (2 weeks) was complete. It was so easy to use that one full-time technician, also responsible for required analytical performance monitoring, could operate at least six of these systems simultaneously. The total number of days the system could have operated was 429, it actually operated 384, or 90% of the time. Thus the system was down for 1,097 hours, 344 h for power outages, 258 h for electrical repairs, 120 h for experiments, 285 h for maintenance, and 90 h due to inclement weather. Excluding weather, experiments, and scheduled power outages, the system was operational 95% of the time. The electrical repairs all occurred during the first week of operation and after a lightning strike disabled a microprocessor board. All repairs were completed within 72 h.

This demonstration represents the first time ever that multiple nutrients (carbon, nitrogen, phosphorus) have all been injected as gases. The horizontal wells that form the basis for the SRS Integrated Demonstration provided significant advantages over conventional bioremediation nutrient delivery techniques. The increased surface area allowed better delivery of nutrients and easier recovery of gas, as well as minimizing formation clogging and plugging phenomena. There was never any indication of reduced flow or plugging during any of the six operational conditions employed. Indeed the zone of effect was far greater than that ever reported for liquid nutrient injection systems.

III. SUMMARY

The preliminary technology evaluation of this demonstration has shown that 1) bacteria capable of degrading TCE/PCE can be stimulated in situ using relatively simple nutrients, 2) biostimulation and biodegradation occurred in situ with out production of toxic daughter products, 3) that the process is easy to use and can be automated, 4) that the cost for adding on the methane injection capability is relatively low and easily recovered, 5) that gaseous nutrient injection represents a significant new delivery technique for in situ bioremediation, and 6) that combined with in situ air stripping this technology represents a significant improvement in terms of cost and efficiency over conventional baseline technologies used for remediation of chlorinated solvents.

ACKNOWLEDGMENTS

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REFERENCES

1. Hazen, T. C. "Test Plan for In Situ Bioremediation Demonstration of the Savannah River Integrated Demonstration Project", DOE/OTD TTP No.: SR 0566-01. Technical Report WSRC-RD-91-23. WSRC Information Services, Aiken, SC. 1991.
2. Marine, I. W., and H. W. Bledsoe. "Supplemental Technical Data Summary: M Area Ground Water Investigation." Technical Report DPSTD-84-112. E. I. du Pont De Nemours and Company, Savannah River Laboratory, Aiken, SC. 1984.
3. Eddy Dilek, C. A. B. B. Looney, T. C. Hazen, R. L. Nichols, C. B. Fliermans, W. H. Parker, J. M. Dougherty, D. S. Kaback and J. L. Simmons. "Post-Test evaluation of the geology, geochemistry, microbiology, and hydrology of the In Situ Air Stripping Demonstration Site at the Savannah River Site (U)." Technical Report WSRC-TR-93-369. Westinghouse Savannah River Company, Aiken, SC. 1993.
4. Looney, B. B., T. C. Hazen, D. S. Kaback, and C. A. Eddy. "Full scale field test of the in situ air stripping process at the Savannah River Integrated Demonstration Test Site". Technical Report WSRC-RD-91-22. Westinghouse Savannah River Company, Aiken, SC. 1991.
5. Wackett, L. P., G. A. Brusseau, S. R. Householder, and R. S. Hansen. "Survey of microbial oxygenases: trichloroethylene degradation by propane oxidizing bacteria". *Appl. Environ. Microbiol.* 55:2960-2964. 1989.
6. Little, C. D., A. V. Palumbo, S. E. Herbes, M. E. Lidstrom, R. L. Tyndall, and P. J. Gilmer. "Trichloroethylene biodegradation by a methane-oxidizing bacterium". *Appl Environ Microbiol.* 54:951-956. 1988.
7. Bowman, J. P., L. Jiménez, I. Rosario, T. C. Hazen, and G. S. Sayler. "Characterization of the methanotrophic bacterial community present in a trichloroethylene-contaminated subsurface groundwater site". *Appl. Environ. Microbiol.* 59:2380-2387. 1993.
8. Enzien, M. V., F. Picardal, T. C. Hazen, R. G. Arnold, and C. B. Fliermans. "Reductive Dechlorination of Trichloroethylene and Tetrachloroethylene Under Aerobic Conditions in a Sediment Column". *Appl. Environ. Microbiol.* In Press.
9. Wilson, J. T., and B. H. Wilson. "Biotransformation of trichloroethylene in soil". *Appl Environ. Microbiol.* 49:242-243. 1985.
10. Phelps, T. J., J. J. Niedzielski, R. M. Schram, S. E. Herbes, and D. C. White. "Biodegradation of trichloroethylene in continuous-recycle expanded-bed bioreactors". *Appl Environ Microbiol* 56:1702-1709. 1990.
11. Fliermans, C. B., J. M. Dougherty, M. M. Franck, P. C. McKinsey and T. C. Hazen. "Immunological Techniques as Tools to Characterize the Subsurface Microbial Community at a Trichloroethylene Contaminated Site", pp. 186-203. In: *Applied Biotechnology for Site Remediation*, R. E. Hinchee (ed). In Situ and On-Site Bioreclamation, The Second International Symposium. San Diego, CA. 1994.
12. Fliermans, C. B., T. J. Phelps, D. Ringelberg, A. T. Mikell, and D. C. White. "Mineralization of trichloroethylene by heterotrophic enrichment cultures". *Appl. Environ. Microbiol.* 54:1709-1714. 1988.
13. Borthen, J., F. Meyer, K. H. Lombard, and T. C. Hazen. "Catalytic oxidation of trichloroethylene and perchloroethylene mixtures". In: *Control and Measurement of VOC Emissions*. AIChE 1993 Summer National Meeting. Seattle, WA. 1993.
14. Lombard, K. H., J. Borthen, and T. C. Hazen. "The Design and Management of System Components for In Situ Methanotrophic Bioremediation of Chlorinated Hydrocarbons at the Savannah River Site", pp. 81-96. In: *Air Sparging for Site Remediation*, R. E. Hinchee (ed). In Situ and On-Site Bioreclamation, The Second International Symposium. San Diego, CA. 1994.
15. Radian. Phase 1 - "Technical Feasibility of Methane use for Water Treatment": Task 2 - Preliminary Economic Analysis. Gas Research Institute, Chicago, IL. 1989.
16. Semprini, L. S. U., P. V. Roberts, G. D. Hopkins, and D. M. Mackay. "A Field Evaluation of In-Situ Biodegradation for Aquifer Restoration". EPA Technical Report EPA/600/S2-87/096. 1988.
17. Schroeder, J. D., N. D. Rosenberg, E. P. Barnes-Smith, and S. R. Booth. "In Situ Air Stripping: Cost Effectiveness of a Remediation Technology Field Tested at the Savannah River Integrated Demonstration Site". Technical Report LA-UR-92-1927. Los Alamos National Laboratory, Los Alamos, New Mexico. 1992.
18. Travis, B. J., and N. D. Rosenberg. "Numerical Simulations in support of the In Situ Bioremediation Demonstration at Savannah River". 43p. Technical Report: LA-UR94-716. Los Alamos National Laboratory, Los Alamos, New Mexico. 1994.

SECTION 1
SCOPE OF WORK

Included in this section is a copy of the Scope of Work

July 30, 1991

Scope of Work for Operational Support of Phase 2 Integrated Demonstration - In Situ Bioremediation

Background

Two horizontal wells have been installed below an abandoned process sewer line that leaked volatile organic compounds during the 1960's through the 1970's. The VOC's primarily consisted of trichloroethylene (TCE) and tetrachloroethylene (PCE). The wells were installed to test new methods of in situ remediation of soils and ground water.

A deep horizontal well, installed below the water table, has been used as an air-injection well. The shallow horizontal well, installed in the vadose zone, has been used to vacuum extract volatiles from the vadose zone and upper saturated zone in the area. These wells were initially used to demonstrate a simple mass transfer process to remove VOC's from both the groundwater and vadose zone. During an 20 week test 16,000 lbs of VOC's were extracted from the subsurface. The entire demonstration site was carefully characterized and monitored. The technologies used include surface and borehole geophysics, cross hole geophysical tomography, pressure monitoring in all affected areas, fluid flow sensors, microbial characterization of soil and water, and chemical analysis of soil, soil gas and groundwater. We are currently planning a test of in situ bioremediation using these same test wells to remediate the residual VOC's at the site.

Specific nutrients have been demonstrated to stimulate selected members of the indigenous microbial community that can degrade TCE/PCE. Laboratory studies using TCE/PCE contaminated sediment and groundwater from M area (at SRS) have demonstrated that a variety simple carbon sources, e. g. methane, will stimulate a microbial community that will completely degrade TCE/PCE to carbon dioxide and chloride. Small pilot studies in other parts of the U.S. have shown that injection of methane/air mixtures into groundwater could significantly increase the biodegradation rate of the indigenous microflora. Use of methane has the advantage of being cheap and abundant (natural gas), naturally occurring, and having a distribution system that corresponds to major contaminated areas in the U.S.. It also has the advantage of stimulating specifically those organisms that are capable of degrading TCE. This will greatly reduce the possibility of aquifer plugging and of proliferation of unwanted microbes, giving greater control and better biodegradation monitoring capability. Biodegradation is a highly attractive technology for remediation because contaminants are destroyed, not simply moved to another location or immobilized. Bioremediation is also among the least costly technologies in applications where it will work.

The horizontal wells that form the basis for the SRS Integrated Demonstration should provide significant advantages over conventional bioremediation techniques. The increased surface area will allow better delivery of nutrients and easier recovery of gas and water, as well as minimizing formation clogging and plugging phenomena.

Purpose and Objectives

The overall objective of this project is to demonstrate the utility of stimulating indigenous microorganisms that will degrade trichloroethylene (TCE), tetrachloroethylene (PCE) and their daughter products as a treatment (remediation) process for contaminated groundwater and sediment. An additional objective is to demonstrate that horizontal wells can be used as an effective delivery and recovery mechanism for bioremediation. The specific objective of this scope of work is to identify and procure the engineering and field support for the test. This support includes field coordination, data acquisition, and the provision and operation maintenance of the air/gas delivery and extraction equipment as discussed below.

The purpose of the project is to develop a more efficient, more cost effective, faster, and more environmentally sound method of cleaning up wastes sites that are contaminated with TCE/PCE. Because this is a rapidly developing technology, there are limited data related to system operation. The effects of various design and operating parameters will be evaluated. The system must have maximum flexibility to allow changes during operation that can take advantage of findings and developments that occur after start up.

General Test Description

Treatment will occur in situ and above ground. The above ground treatment will process off-gas and water through optional and/or experimental treatment units (e.g. experimental bioreactors). Below ground treatment (in situ) will consist of injecting one or more simple nutrients to stimulate biodegradation of TCE/PCE to inorganic components. The principal nutrient to be supplied via the horizontal wells is methane, at a low concentration in air (1-3% by volume). The lower horizontal well will provide a very efficient delivery of gas throughout the contaminated region. A vacuum will be applied to the upper well (vadose zone) to encourage air/methane movement through the upper saturated zone and lower vadose zone, thus inhibiting spreading of the contaminant plume. An extensive monitoring program using existing monitoring wells will observe the response of the soil and water during injection of air and methane. The off-gas from the upper horizontal well will be assayed for methane, total VOC, TCE, PCE.

potential break down products of TCE/PCE, e.g., dichloroethylenes (DCE), vinyl chloride (VC), and carbon dioxide. Data from the phase 1 demonstration of in situ air stripping will determine base line geological, hydrological, chemical, and biological characteristics. Only air was injected during phase 1. These data will establish the effect of air injection without nutrients on the hydrological, chemical, and biological characteristics of the site. In effect, it provides a unique and dramatic control experiment for the phase 2 bioremediation.

Subcontractor Tasks

1. The Successful offerer will furnish an air compressor capable of delivering 300 scfm at 100 psi. Unit must have standard safety equipment and interlocks (e.g., pressure limit at 125 psi). These safety features must be inspected according to the vendor's safety program as approved by the Subcontract Technical Representative (STR). Unit must be skid or trailer mounted and delivered to the test site. Unit cost must include all supplies and maintenance. Services must begin within 12 hours of operational problem identification and be completed within 72 hours. Periodic maintenance schedule requirements must be identified in the proposal from the offerer. Vendor must provide all supplies, spare parts and maintenance for all subcontractor equipment. The unit must be equipped with an hour meter to allow accurate records of operating times.
2. The Successful offerer must provide a vacuum blower capable of extracting 500 SCFM at 10 inches Hg (inlet). Unit must have an inlet filter and outlet silencers and be mounted in an enclosure to reduce noise level to 90 decibels during operation. The outlet must allow discharge through a 15 foot high dispersion stack, to a subcontractor supplied off gas treatment unit if present (Task 7), or to WSRC supplied experimental offgas treatment units. The experimental offgas treatment unit's back pressure will be limited to a maximum of 5 inches of water. Unit must have standard safety equipment and interlocks (e. g., pressure limit at 125 psi). These safety features must be inspected according to the vendor's safety program as approved by the STR. Unit must be skid or trailer mounted and delivered to the test site. Unit cost must include all supplies and maintenance. Service must begin within 12 hours of operational problem identification and be completed within 72 hours. Periodic maintenance schedule requirements must be identified in the proposal from the offerer. Vendor must provide all supplies, spare parts, and maintenance for all subcontractor equipment. In addition the offgas outlet must have an audible and visible recorder for monitoring when offgas methane concentration exceeds 5% volume/volume. The unit must be equipped with an hour meter to allow accurate records of operating times.

3. The Successful offerer must furnish an air/methane blending system. This system must integrate with the air compressor and be capable of providing controllable methane/air mixtures in the range of 0 to 4% (vol/vol). The blender must have a redundant safety system that automatically stops the flow of methane if the methane exceeds 5% methane (vol/vol). The system must generate a visible and audible signal of the alarm condition. The flow of methane must be controlled using a microprocessor that allows either constant mixtures or time programmed operation. A recording of the methane concentration over time is required. The calibration of the blender must be documented by the vendor in the final Quality Assurance report and the final project report. SRS will provide a low pressure (20 to 30 psi) methane source using industry standard connections from support organizations. Vendor must provide all supplies, spare parts, and maintenance for all subcontractor equipment.

4. The Successful offerer must provide field engineered manifold and connections. The vacuum unit in Task 2 will be connected to extraction well AMH2. AMH2 is a horizontal well screened in the vadose zone with a four and one-half inch diameter stainless steel wire-wrapped screen. This horizontal well's screened section is approximately 200 feet in length and has a vertical depth of 70 to 80 feet.

The air/methane blend injector (Task 1 & 3) must be connected to well AMH1, the injection well. AMH1 is a horizontal well screened in the saturated zone with two and 3/8 inch diameter stainless steel perforated tubing. The well is approximately 310 feet long with a true vertical depth of 150 to 180 feet. Vendor must provide all supplies and maintenance for all subcontractor equipment.

5. Chemical analyses. The Successful offerer must provide on site concentration measurements in offgas from well head and other gas sampling points for trichloroethylene (TCE), tetrachloroethylene (PCE), cis- and trans-dichloroethylene (DCE), vinyl chloride (VC), methylene chloride (MC), methane (CH₄) and carbon dioxide (CO₂). Detection limits of less than or equal to 5 ppmV for chlorinated compounds and less than or equal to 0.1 % for methane and carbon dioxide are required. The Successful offerer shall supply all sampling equipment, and on site capillary column gas chromatograph, all standards, and any other equipment needed to complete the sampling and analysis. The offerer must exactly describe and document the performance of the proposed sampling and analysis methods in the final Quality Assurance Report and Final Project Report, as specified in the Quality Assurance Section below.

6. On-Site Project Management. The Successful offerer shall supply (as required by the subcontract terms and conditions) an on site manager and support staff, to oversee the project, collect data, produce the weekly operations reports, produce the delivery inspection and approval report, and operate/maintain the subcontractor equipment. These activities must be performed by the successful offerer 24 hrs/day, 7 days/week. The Successful offerer shall collect pressure and vacuum data from approximately 20 vadose zone piezometers and 22 groundwater wells, as well as from the vacuum and pressure well heads and 6 downhole tubes in each horizontal well. The successful offerer shall provide the gas concentration measurements for gases collected from the approximately 20 vadose zone piezometers, gases collected from the 6 downhole tubes in the vacuum horizontal well (AMH-2), and for the vacuum well head. All sampling procedures and controls must be strictly documented, approved by the STR prior to use and conform to site quality assurance. The Successful offerer shall assure the housekeeping and condition of the site and generate the weekly operations reports on site. The on site management shall assure the continued operation of subcontractor equipment and assure rapid correction of operational problems, as described in subcontractor performance requirement section.. The on site project manager shall maintain safety and security records and oversee adherence to safety and security rules by all subcontractor personnel.

7. Offgas Treatment (option). If WSRC exercises its' option for offgas treatment at any time after subcontract execution, the successful offerer must provide a system to destroy chlorinated solvents in the offgas stream from the vacuum blower. The destruction must be performed on site. The system must reduce the total VOC concentration to less than 5 ppm (vol/vol) and generate nonhazardous/inorganic compounds, e. g. CO₂, H₂O, HCl. A properly sized Allied Signal HDC catalytic oxidation system or an Air Resources Inc. (ARI) fluidized bed catalytic oxidation system, or equal are acceptable. WSRC will exercise the option to include this task based on the permit negotiations that are currently underway. The offgas is expected to be similar to the offgas stream generated during the Phase I test (180°F, 400 ppm total VOC); details on the expected offgas concentrations are provided in the Phase I operational report provided by WSRC. If selected, unit must be skid or trailer mounted and delivered to the test site. The unit cost must include all supplies and maintenance. Service must begin with 12 hours of operational problem identification. Periodic maintenance schedule requirement must be identified in the proposal from the offerer. As specified in items 1 - 4 the vendor must provide all supplies, spare parts, and maintenance for all subcontractor equipment.

Government Furnished Property and Facilities

1. Power (3 phase 440v and normal 240 and 120 v will be available) Site procedures for connection to power must be followed.
2. Methane
3. Permits: Site Use/Site Clearance/NEPA/Work Clearance
4. Safety inspection of:
Compressor/Blender and Vacuum Blower by CSWE
Schematic diagrams are required from the vendor for CSWE. This will facilitate inspection of the system.
5. Fork lift truck for mobilization and demobilization
6. Safety and Security Training.
7. On site mobile laboratory space (approximately 50 ft²) to set up analytical instrumentation.
8. Continuous ambient barometric pressure measurements.

WSRC furnished data

1. Phase 1 operational report (attachment #4).
2. SRS Quality Assurance Policy. STR shall discuss applicable sections of the QA program prior to the start of work (attachment #3).
3. SRS Safety procedures (attachment #2).

Subcontractor Deliverables (hardware and data):

1. Health and Safety Report. (must be approved by STR before mobilization). The subcontractor health and safety plan must be summarized. Also, this document shall include: a) schematic diagrams of all subcontractor equipment and approximate design of field engineering manifold/connection., b) a table of pressure expected in each component and the rating for that component, c) test and inspection procedure for electrical and pressure subcontractor equipment and safety devices, and d) MSDS data for all potentially hazardous chemical to be used during the project, and specific handling procedures for these chemicals. The report must be supplied as both a hard copy and on diskette.
2. Quality Assurance Report. The successful offerer shall abide by WSRC Quality Assurance Program as outlined in WSRC Management Policies, WSRC-1-01 MP 4.2 throughout the period of performance (attachment #3). In accordance with these policies, the successful offerer shall maintain records to document high quality work. The report containing statements of how the successful offerer

will certify documents, personnel and training in accordance with WSRC Quality Assurance policies shall be submitted in draft form with the proposal and must be submitted in final form prior to initiation of work as described below. Field work shall include blank and duplicate sampling (duplicate samples will be collected at approximately 10% of the sampling locations). Analytical work shall be referenced to industry accepted standard materials that are approved by the STR. After comment and revision in collaboration with the STR the final report must be issued. The report must be supplied as both a hard copy and on diskette within 14 days of comment by the STR. The successful offerer must follow the approved quality assurance procedures throughout the contract period, unless written approval for changes are provided by procurement.

3. Delivery, inspection and approval of field subcontractor equipment report. At the time of mobilization all subcontractor equipment must be inspected as required by Health/Safety and Security. The STR must inspect and approve that all subcontractor equipment, operational plans and personnel involved meet the specifications of the contract. When mobilization is complete and all inspections are complete and operation is ready to begin, and the STR has approved, then this report will be issued immediately prior to operation. The report must be supplied as both a hard copy and on diskette.

4. Weekly Operations report. This report must be issued weekly and include a summary, operations listing and all analytical results. The report must be supplied as both a hard copy and on diskette.

5. Final Report. This report must summarize the weekly operations report and include as appendices the Delivery/Inspection/Approval report, the Quality Assurance Report, and the Health and Safety Report. It must also include complete listing of operating parameters for the contract period and all analytical results. The report shall also contain as appendices any chain-of-custody sheets, verification of standards and any quality assurance documentation that may directly impact the analytical results presented. The report must be supplied as both a hard copy (5 copies) and on diskette.

Subcontractor performance requirements

1. Successful offerer shall be capable of mobilizing within 21 days of award of contract.
2. The health and Safety Report shall be submitted within 10 days of award of contract. This report shall be issued in final form after STR concurrence prior to mobilization.
2. Delivery, inspection and approval of field subcontractor equipment report shall be issued immediately prior to operation.
2. Weekly reports shall be provided by Wednesday of the following week for the week ending on the preceding Sunday.
3. Correction of operational problems including maintenance, repairs, and modifications shall begin within 12 hours of problem identification and be completed within 72 hours.
4. Final Report is due within 30 days of demobilization.
5. Following approval by the STR, all reports and data shall be provided both as paper copies and on disk.

WSRC quality assurance requirements and activities

The successful offerer must adhere to the WSRC Quality Assurance program and submit all document and records in the Quality Assurance Report and submit a Health and Safety Report. These are described in detail in the section titled Deliverables.

Safety

While on SRS, the Successful offerer will be responsible for adhering to the safety regulations of "WSRC Safety Guidelines for Subcontractors" (Attachment #2). All members of the successful offerer project staff must attend a site safety and security orientation (approximately 8 hours) prior to beginning work at SRS. The orientation includes information about handling chemicals on site, emergency signals, and security.

WSRC requirements unique to the SOW for safety, health protection, environmental, waste management, security, and badging which are not covered in SRS policies.

NONE

Technical/Price Proposal Requirements and Evaluation

This is a procurement to subcontract engineering support based on anticipated needs. The estimated quantities of items listed in the compensation schedule are for comparison purposes only, and do not represent guaranteed future work. The actual amount of funding allocated to be used for each unit during the period of performance will be determined by the Subcontract Technical Representative. The Technical Proposal must address the categories as listed on page 11.

This is a competitive requirement that will be awarded to the capable offeror whose proposal conforms to the solicitation requirements and demonstrates the capabilities to perform the requirement at the lowest price.

The offeror submitting the lowest priced capable offer that meets the requirements of the solicitation will be evaluated to determine capability to perform the subcontract requirement. Capability determination will be accomplished by review of data submitted with the offeror's proposal for compliance with minimum requirements and an onsite inspection of the offeror's facility if deemed necessary. If the lowest price proposal is found noncapable, the next lowest price proposal will be subjected to the procedure set forth above and will continue until a capable offer is determined and the price can be determined fair and reasonable.

PR# B98264

Page 10 of 11

Attachment 1

Technical Proposal

The low offeror's technical proposal will be reviewed by at least three qualified SRL/SRS staff members. Each staff member will review the low offeror's proposal using the following categories (a more detailed description of each category is provided in the Qualifications, Task Descriptions, and Quality Assurance Sections).

CATEGORY DESCRIPTIONS

I. Capability of the company - this section must demonstrate the ability of the company to carry out all phases of the work. This section shall include: documentation of successful past studies, documentation of necessary equipment and resources, documentation of reliable reporting capability.

II. Capability of key personnel - This section must identify and document the capability of the primary onsite manager, and other key personnel. The manager must have documented practical experience in performing field remediation work , and in analytical chemistry. The capabilities of other support staff persons (e.g., samplers) must be documented. All personnel working at SRS must be U.S. citizens. Any changes in personnel during the project must be approved in writing by the STR.

III. Detailed description of proposed subcontractor equipment (vacuum blower, compressor, methane blender, field engineering and offgas treatment systems). This section shall include process diagrams, equipment specifications, site requirements, and define maintenance requirements. See the subcontractor Tasks and Subcontractor Deliverables Sections for more information.

IV. Proposed sampling and analytical methods - This includes type of sample, instrument, column, detector, detection limits to be used for each of the analytes.

V. Quality Assurance - A draft report describing the offerors ability to conform to the WSRC Quality Assurance policies. This section shall document the ability of the proposed analytical methods to meet the requirements of the Scope of Work. See the Subcontractor Tasks and Subcontractor Deliverables Sections for more information.

SECTION 2

CHRONOLOGICAL LISTING OF IMPORTANT EVENTS

The following discussion describes major project milestones and operating campaigns. The operating campaigns are listed in tabular form in Section 7.

November 15, 1991 - Subcontract Signing

The subcontract was executed between ECOVA and WSRC on November 15, 1991.

November 15, 1991 to January 1, 1992 - System Design and Procurement

During the first six weeks of the project major activities were devoted to finalizing equipment specifications, performing detail design, and procuring equipment.

Equipment specifications were changed slightly from those listed in the Scope of Work when it became clear that some of the equipment was either of an inappropriate size (the blower) or was incompatible with the site conditions (gas fired oxidizer).

Detail design work focused on the methane/air blending system. This system had to be created largely from scratch, since systems of this type were not available readily. Other design work included process line connections between major equipment pieces, and coordinating with WSRC about site conditions.

The equipment procurement effort was complicated due to WSRC's requirement for fast delivery and installation. Originally requesting a three week delivery of equipment on site, a ten week time frame was negotiated prior to contract signing. This necessitated use of expedited delivery schedules and in some cases payment of fees for quick turnaround.

January 1, 1992 to January 28, 1992 - System Fabrication and Delivery to Site

During the month of January the various systems were fabricated and shipped to the site. These systems included the blower and compressor (provided by Rogers Machinery), the catalytic oxidizer and methane blending system (provided by Brown Engineering), and miscellaneous equipment.

All equipment was delivered to the site on or before January 28, per the terms of the contract, however, the equipment was not completely installed and operational on that date.

Once the equipment was delivered, delays in installation occurred because site preparation work was behind schedule, due to weather and scheduling conflicts at SRS.

During this time period the on site analytical lab was set up, tested and made operational.

January 28, 1992 to February 14, 1992 - System Installation and Start Up

As site preparation was completed (grading, laying of concrete pads, installation of power and phone lines, etc) appropriate parts of the process equipment was installed, plumbed and wired.

February 15, 1992 to February 24, 1992 - Air Permit

Operation of the system was delayed due to lack of an air discharge permit. This was acquired on February 24.

February 25, 1992 to March 18, 1992 - Extraction Only

Operations were initiated on February 25. During this period only the extraction system was operated.

March 18, 1992 to April 20, 1992 - Extraction and Air Injection

On March 18 the injection system was started. Injection during this period was air only.

April 20, 1992 to August 5, 1992 - 1% Methane Injection

Methane was injected at a concentration of 1% by volume.

August 5, 1992 to October 20, 1992 - 4% Methane Injection

The methane concentration was increased to 4%.

October 20, 1992 to October 23, 1992 - 3% Methane and Helium Injection

Methane concentration was decreased to 3%, and Helium tracer (at 20 SCFH) was added to the injection stream.

October 23, 1992 to November 6, 1992 - Helium Injection Only.

Methane injection was turned off, and only Helium tracer was injected.

November 6, 1992 to November 10, 1992 - 2% Methane Injection Only.

During this period only methane was injected at a 2% concentration.

November 10 to December 7, 1992 - Air Injection Only

The methane was turned off and only air was injected

December 7, 1992 to February 22, 1993 - 4% Methane, Pulsed Injection

Methane was injected at a 4% concentration, but in a pulsed mode. Injection was performed eight hours per day, Monday, Wednesday and Friday of each week.

January 21, 1993 to April 30, 1993 - Testing of Allied Signal Catalyst

A new catalyst manufactured by Allied Signal was tested to see how efficiently it would oxidize PCE, and to determine its useful life in the presence of halogenated organic compounds.

January 27, 1993 to April 30, 1993 - Nitrous Oxide Injection.

In addition to the other injection schedules listed here, Nitrous Oxide was also injected in to the injection stream 24 hours per day, seven days a week.

January 27, 1993 to April 30, 1993 - Triethylphosphate Injection

In addition to the other injection schedules listed here, Triethylphosphate was also injected in to the injection stream 24 hours per day, seven days a week.

February 22, 1993 to March 20, 1993 - 4% Methane Injection, Eight hrs/day, Every Other Day

Methane was injected at a 4% concentration, eight hours per day every other day including weekends.

March 20, 1993 to April 30, 1993 - 4% Methane Injection, Twelve hrs/day, Every Other Day

Methane was injected at a 4% concentration, twelve hours per day every other day including weekends.

April 30, 1993 - End of Operations

Injection and extraction of air was terminated on April 30 at 7:00 PM due to expiration of the air permit.

SECTION 3
TABULAR DATA

All process and project data is displayed in tabulated form in the Appendix.

SECTION 4

GRAPHICAL DATA

All process and project data is displayed in graphical form in the Appendix.

SECTION 5
ANALYSIS OF DOWN TIME

Included in this section is a table of data which itemizes down time for the operations which ECOVA was responsible for.

WSRC INSITU BIO. 2M DOWNTIME
ANALYSIS

START DATE	FINISH DATE	COMPONENT DOWN	DOWNTIME DURATION BY EVENT TYPE (Hours)			ELECT. MECH.	PLANNED	EXPLANATION	NON PLANNED DOWN TIME	% OF TOTAL MONTHLY TIME
			WEATHER	ROUTINE MAINT.	REPAIR					
2/29/92		Extraction Blower				1.50		Low air flow indicator.	February	
2/29/92		Emergency Autodiater			1.00			Reprogram autodiater	2.50	
3/1/92		Extraction Blower				1.50		Extraction oven temp. switch too low. Reset at higher value.		
3/2/92		Catex			0.50			Replace temperature gauge		
3/2/92		Emergency Autodiater		0.50				Program in new pager number.		
3/2/92	3/5/92	Catex SCR			71.00			Replace SCRs.		
3/7/92	3/14/92	Foxboro Controller				44.50		Troubleshoot Foxboro Control over Methane Control Valve.		
3/10/92		Extraction Blower				1.50		Extraction pressure switch reset at higher value.		
3/11/92		Extraction Blower	1.00					High winds tripping pressure switch due to back pressure.		
3/12/92		Master Control Panel			13.00			Electrical work to Foxboro Controller		
3/15/92		Foxboro Controller/Horiba				4.00		Install voltage to mill amp conversion circuit board in Horiba		
3/18/92		Injection system		0.50			4.00	Stop injection system to mount pressure gauge panel on injection line		
3/20/92		System						Shutdown for weekly autodiater test.		
3/27/92		Extraction Blower/Catex	0.25				9.00	High winds caused pressure surge tripping pressure switch.		
3/29/92		Extraction Blower/Catex					24.00	Cool down Catex for planned WSRC 3/30-3/31/92 shutdown for		
3/30/92		System					61.00	Planned WSRC shutdown. Install new 600 amp service.	March	19%
3/31/92	4/2/92	System			0.50			Planned WSRC site shutdown.		
4/3/92		System						Shutdown for weekly autodiater test.		
4/4/92		Extraction Blower/Catex	1.50					High winds tripped pressure switch.		
4/10/92		System		0.50				Shutdown for weekly autodiater test.		
4/16/92		Extraction Blower/Catex		2.25				Shutdown while installing Kurz Methane Flow Sensor on Injection System.		
4/17/92		System		1.75				Shutdown for weekly autodiater test.		
4/17/92		Emergency Autodiater				10.00		Seismic crew out phone line autodiater down.		
4/18/92		Compressor		0.25				Shutdown for autodiater operation confirmation.		
4/20/92		Extraction Blower/Catex		1.00				Change oil in blower. Grease bearing in same.		
4/20/92		Compressor		6.00	1.75			Shutdown for installation of methane injection onto injection system line		
4/21/92	4/22/92	Compressor, Kurz Methane					6.50	Troubleshoot Kurz methane flow sensor.		
4/25/92		Extraction Blower/Catex					6.50	Shutdown site power for site electrical installation.		
4/25/92		Compressor, Methane					2.00	Site power shutdown for electrical installation.	April	2%
4/25/92		Compressor, Methane						System shutdown for alternative offgas system installation		
5/2/92	5/3/92	Extraction Blower/Catex				2.25		Site power surge caused system to shutdown (suspected)		
5/6/92		Master Control Panel		1.00		0.25		Makes changes to safety interlock control logic.		
5/8/92		Extraction Blower/Catex						Change oil in Extraction Blower. Grease same.		
5/12/92		Compressor, CH4 Inj. Sys.		0.25				Calibrate Horiba Gas Analyzer		
5/17/92		Catex		14.00				Planned shutdown to cool Catex for 5/18/92 new catalyst installation.		
5/18/92		Compressor, CH4 Inj. Sys.		11.00				Planned shutdown to install new catalyst in Catex exhaust stack installation.		
5/22/92	5/23/92	Extraction Blower/Catex		1.25				Service Blower & Compressor		
5/24/92		System				2.00		Extraction system shutdown due to low injection air pressure		
5/29/92		Extraction Blower/Catex			0.50			Cause of shutdown unknown.		
5/30/92		System				0.75		Planned shutdown for weekly autodiater test.	May	5%
5/31/92		Extraction Blower/Catex				1.25		Cause of shutdown unknown.	35.00	
6/5/92		Master Control Panel			11.00			WSRC power problem at site caused shutdown (suspected)		
6/9/92		Extraction Blower/Catex			20.50			Planned shutdown to install cooler in Master Control Panel.		
6/9/92		Onion Catex Temp. Controller			19.00			Planned shutdown to cool down Catex and troubleshoot Orion Catex		
6/14/92		Extraction Blower/Catex	1.50					Install new Orion Temp. Controller and troubleshoot same.		
6/18/92		Extraction Blower/Catex	7.00					Bad weather, high winds caused system shutdown.		
6/20/92	6/22/92	Compressor, CH4 Inj. Sys.			64.50			Lightening strike caused power surge to burn Orion Catex Temperature		
6/22/92		Onion Temp. Controller/250			16.50			Waiting on delivery of Orion Temperature Controller & 200 amp Controller.		
7/1/92		System	1.00					Install new Orion Temp. Controller and new 200 amp SCRS.	June	20%
7/1/92		Kurz Air & Methane Flow Int.	0.25					Shutdown while installing lightning and surge arrestors to system.	141.00	
7/6/92		System			2.00			Storm caused power outage.		
7/6/92		Compressor, CH4 Inj. Sys.			3.00		4.00	Troubleshoot and repair signal leads.		
7/6/92		Compressor, CH4 Inj. Sys.			1.50			Shutdown to install 1200 V power arrestors & surge protectors.		
7/12/92		Compressor, CH4 Inj. Sys.						Troubleshoot Horiba Analyzers, Kurz flow sensors		
7/14/92		Compressor, CH4 Inj. Sys.	0.75					Compressor, CH4 injection system.		
7/16/92		Extraction Blower/Catex	0.75					Check out all injection system components.		
7/16/92		Compressor, CH4 Inj. Sys.		0.50				Grease and change oil in Extraction Blower.		

**WSRC INSITU BIOLOGICAL DOWNTIME
ANALYSIS**

START DATE	FINISH DATE	COMPONENT DOWN	DOWNTIME DURATION BY EVENT TYPE (Hours)					EXPLANATION	NON PLANNED DOWN TIME	% OF TOTAL MONTHLY TIME
			WEATHER	ROUTINE MAINT	REPAIR	ELECT MECH	PLANNED			
7/20/92		Compressor, CH4 Inj. Sys.			1.00			Install portable Kurz airflow meter. Remove regular Kurz meter for repair.		
7/20/92		Master Control Panel				1.50		Blown fuse in 120 V power supply to MCP		
7/31/92		System					8.00	Shutdown Calox to cool down for planned WSRC shutdown for ground	July	
7/31/92	8/5/92	System					144.00	Planned shutdown for WSRC for groundwater sampling.	11.25	2%
8/7/92		Compressor, CH4 Inj. Sys.			1.00			Install repaired Kurz Airflow Sensor. Shutdown compressor and CH4		
8/8/92		Kurz Methane Flow Sensor			2.50			Troubleshoot & repair Kurz Methane Flow Sensor and Horiba Gas Analyzer.		
8/18/92		Compressor			1.00			Shutdown Extraction System to troubleshoot Horiba Gas Analyzer.		
8/19/92		Calox			15.00			Shutdown Calox to cool down. Shutdown to mount effluent sample lines.		
8/20/92		Extraction Blower/Calox			9.50			Install new effluent sample lines on Calox Exhaust Stack.		
8/24/92		Extraction Blower/Calox			2.25			Install 120 V surge suppressor to MCP, change safety interlocks system to		
8/25/92		#2 Horiba Gas Analyzer			6.00			Troubleshoot Horiba.		
8/26/92		#1 Horiba Gas Analyzer			4.00			Rewire Horiba #1 into Foxboro recorder and alarm interlocks.		
8/31/92		Calox			10.50			Shutdown Calox to cool down for repairs to effluent sample tubes & catalyst.		
8/31/92		Kurz Methane Flow Sensor			0.75			Install new circuit boards in Flow Sensor.	August	
8/31/92	9/1/92	Compressor, CH4 Inj. Sys.			21.50			Shut off injection system to make repairs to effluent sample tubes	74.00	10%
9/4/92		Compressor, CH4 Inj. Sys.			1.00			Remove Kurz Methane Flow Sensor and return to manufacturer for repair		
9/11/92		Extraction Blower/Calox		0.50				Grease and change oil in Extraction Blower.		
9/11/92		Compressor, CH4 Inj. Sys.		0.25				Check all Compressor filters, and Injection Line filters		
9/24/92		Calox				7.50		Electrical problem with 480 V trip breaker.		
9/25/92		Extraction Blower/Calox			48.00			Verify problem with 120 V under voltage relay on 480 V trip breaker. Order		
9/29/92		SCR				7.00		SCR have no output. Will troubleshoot on 9/30/92.		
9/29/92	9/30/92	Calox				26.00		SCRs down. No power to Calox.	September	
9/30/92		SCR			19.00			Troubleshoot SCR. Replace 200 ampe SCRs w/250 amp SCRs.	108.25	15%
10/1/92		Extraction Blower/Calox			1.00			Shutdown to mount Horiba Gas Analyzer #2 into MCP.		
10/3/92	10/9/92	Extraction Blower/Calox				3.25		Low injection air pressure activates safety interlock.		
10/10/92	10/11/92	Extraction Blower/Calox				1.75		High methane concentration enables safety interlock.		
10/11/92		Calox				2.50		No power to Calox. Electrical problem.		
10/12/92	10/13/92	Extraction Blower/Calox			46.00			Check 250 amp trip breaker. Adjust trip circuit		
10/14/92		SCR/Master Control Panel				10.00		Finish all tests. Test MCP & SCRs. O.K.		
10/16/92		Autodiater			0.50			Replace battery.		
10/17/92		Compressor, CH4 Inj. Sys.				0.75		High methane concentration enables safety interlock system.		
10/19/92		SCR/Master Control Panel			1.00			Repair safety interlock system so Calox blower & compressor stay on	October	
10/30/92		Compressor					0.50	System shutdown due to tripped 1200 circuit breaker.	66.75	9%
11/10/92		Compressor, CH4 Inj. Sys.				0.50		High methane concentration	November	
11/11/92		Compressor			19.00			Remount catalyst.	19.50	3%
12/1/92	12/3/92	Compressor					68.00	Shutdown for planned WSRC installation of Watt-HR meters on Bro system.		
12/9/92		CH4 Injection System				6.00		High methane concentration enables safety interlock.		
12/11/92		CH4 Injection System					6.00	Repair leaks in carbon cannister and CH4 inj. sys.		
12/12/92	12/13/92	Compressor					43.50	Planned WSRC site power shutdown.		
12/21/92		CH4 Injection System				0.25		CH4 inj. sys. shutdown due to high methane concentration.	December	
12/27/92		System			18.00			Replace effluent sample lines	24.25	3%
1/15/93	1/26/93	Extraction Blower/Calox					288.00	Reconfigure Calox w/ new catalyst		
1/27/93		Injection System			0.50			Replace copper tubing in CH4 injection line	January	
1/27/93		Injection System					15.00	WSRC shutdown to install NO system	0.50	0%
2/3/93		Injection System					1.00	WSRC shutdown to install new methane filter		
2/5/93	2/6/93	System					30.50	WSRC Shutdown for electrical power work		
2/6/93		Injection System					2.00	WSRC shutdown for new methane filter		
2/8/93		Injection System				0.50		High methane concentration		
2/9/93		Injection System			1.00			Remove and clean methane Kurz flow meter		
2/17/93		Injection System					0.75	Modify TEP injection system	February	
2/19/93		Injection System			0.25			High methane concentration	1.75	0%
3/6/93		Injection System			0.25			High methane concentration		
3/10/93		Injection system					1.25	Modify TEP injection system		
3/11/93	3/14/93	System	14.00					Bad weather shut down system (high winds and snow)		
3/15/93		Injection system			3.50			Trouble shoot and repair compressor		
3/20/93		Injection system				0.25		High methane concentration		
3/25/93	3/26/93	System					6.00	WSRC shutdown for electrical power work	March	
3/30/93		Injection system				0.25		High methane concentration	18.25	2%
4/5/93		Injection system				0.50		High methane concentration		

**WSRC INSITU .01 .M DOWNTIME
ANALYSIS**

START DATE	FINISH DATE	COMPONENT DOWN	DOWNTIME DURATION BY EVENT TYPE (Hours)					EXPLANATION	NON PLANNED DOWN TIME	% OF TOTAL MONTHLY TIME
			WEATHER	ROUTINE MAINT.	REPAIR	ELECT MECH	PLANNED			
4/9/93		Injection system				0.25		High methane concentration	April	
4/19/93		Injection System			0.50			Install new pressure gauge	1.50	0%
4/23/93		Injection system				0.25		High methane concentration		
TOTAL HOURS OF DOWN TIME			26.60	43.00	460.75	129.00	741.60		659.25	
PER CENTAGE OF TOTAL OPERATING HOURS			6.27%	8.44%	4.76%	1.33%				
TOTAL EQUIPMENT DOWN TIME			659.25	6.81%						
TOTAL PLANNED DOWN TIME			741.60							
62 weeks			10416	TOTAL AVAILABLE HOURS						
			741.50	TOTAL HOURS OF WSRC PLANNED SHUTDOWN						
			9674.50	TOTAL OPERATING HOURS						

SECTION 6
QA/QC RESULTS AND VERIFICATION

Included in this section is a copy of the "Quality Assurance/Quality Control Review Sheet" for each week's operations.

Also included is a copy of the "Quality Assurance Report for In Situ Biological Treatment Project" which outlines the procedures used for QA/QC on this project.

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed:

3/2 - 3/8, 1992

VOC's + CO₂/CH₄ (No CO₂ data)

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
03061	✓
03065	✓
030614	✓
03077	✓
030715	✓
030721	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
3/5 03061 inpl 2 hrs	✓
3/6 03065 epl 4 hrs	✓
3/6 030614 inpl 15 hr stop	✓
3/7 03077 MHV-2-C	✓
3/7 030715 MHV-4-C	✓
3/7 030721 inpl 42 hrs	✓

Signature:

Leo Lehmiche

Date Reviewed:

4/27/92

Reviewer:

Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/9 - 3/15 ~~UCL~~ VCI only Some CH₂Cl₂ data sheets - baseline OK
No spreadsheet

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
C:\03094 InPI 90	✓ General Baseline baseline
03106 EPI 107	✓
03116 MHV-1-B	✓
03115 MHV-4-A	✓ Small PCE peak not baseline, appears < 5 ppm
031231 EPI 153	✓
03143 InPI 185	✓
03152 InPI 209	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
03094 3/9 0:37	✓
03106 3/9 10:51	? Not clear when entered in spreadsheet
03116 3/10 14:17	✓
03115 3/10 18:12	✓
031231 3/11 15:25	✓ Found values - does not line up to date ditto
03143 3/13 8:38	✓ Total off by 1, rounding effect
03152 3/14 7:56	✓

Signature: Leo Lehman

Date Reviewed: 7/4/92

Reviewer: Leo Lehman

**QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET**

Page 1

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/16 - 3/22, 1992

VOCs + CO₂/CH₄

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
03165	PCE peak off edge of sheet
031613 (CO ₂)	Baseline drawn on peak, data: 0.0
03199	✓
031919 (CO ₂)	✓
031939	✓
03206	big roll in overall baseline
032027	✓
032040 (CO ₂)	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
03165 3/15 infl. 249 hrs	✓
031613 3/15 infl. 249 hrs (CO ₂)	✓ see data note above
03199 infl. (CO ₂) 306 hrs 3/18	✓
031919 3/18 MHV-3-C Duplate (CO ₂)	? No 3/18 entry on Duplate sheet
031939 3/18 infl. 257 hrs	3/16 on spreadsheet, sample was 2 days later?
03206 3/20 MHV-1-B	✓ 3/19 see above " 4 day " ?
032027 3/20 MHV-4-C	✓
032040 3/19 infl. 328 hrs	✓

Signature:

Leo Lemmecke

Date Reviewed:

Reviewer:

LEO LEMMECKE

Page 2

Data Pack Reviewed: 3/16 - 3/22, 1992

VOCs + CO₂ / CH₄

[illegible]

Sample Date/Time	Comments (✓ = Agrees with data sheets)
032115 3/20 ✓ std	—
032116 3/20 in flw 375 hrs (CO ₂)	✓
032228 3/21 in flw 402 hrs (CO ₂)	✓
Signature: Leo Schmitt	Date Reviewed:

Signature:

Leo Lehnich

Date Reviewed:**Reviewer:**

Leo Lehnicke

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/23 - 3/29 VCI + CO₂ All data sheet dates off by 1 day until 3/26

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
G32310 InPl 418 VOC	✓
G32321 InPl 425 VOC	✓
G32418 InPl 475 VOC	TCE baseline? Probably OK due to rolling base line
G32426 " " CO ₂	✓ All CO ₂ baselines OK
G32610 MHV-1-B VOC	✓
G32627 MHV-S-A "	✓
G42723 InPl 498 VOC	✓ Rolling base line near TCE
G32888	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
G32310 3/22 13:36 ^{← should be 3/23}	✓ Spreadsheet starts at 3/22 All dates off by 1 day
G32321 3/23 15:04	✓
G32418 3/25 19:55	✓
G32426 3/25 18:34	No spreadsheet
G32610 3/26 11:25	✓
G32627 3/26 19:14	✗ Huge TCE peak Reported as 0 on Data Sheet
G42723 3/26 8:34	✓
G32888 3/28 12:15	✓

Signature: Leo Lehmiche

Date Reviewed: 1/92

Reviewer: Leo Lehmiche

**QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET**

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: Week of 3/30/92 to 4/5/92
VOCs & CO₂/CH₄

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
<i>All files reviewed</i>	<i>✓ except those noted below</i>
<i>040229</i>	<i>5.16 min (TCE) baseline slightly off; no significant effect</i>
<i>—</i>	
<i>040230</i>	<i>5.16 min (TCE) baseline off - may have doublet value</i>
<i>04043</i>	<i>7.75 min (PCE) baseline - may have triplet value</i>

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
<i>4/2/92, 17:05 Efflu @ 4 #328 (CO₂)</i>	<i>✓</i>
<i>4/2/92, 17:00 Infln #332 (VOC)</i>	<i>✓</i>
<i>4/2/92, 17:05 Eff #334 (VOC)</i>	<i>PCE = ⊖16, datasheet; ⊕16 spreadsheet</i>
<i>4/2/92, 15:05 Eff #332 (VOC)</i>	<i>TCE + PCE - negative datasheet; ⊕ spreadsheet</i>
<i>4/2/92, 15:00 Infln @ 2 #324 (CO₂)</i>	<i>✓</i>

Signature: Michael J. K. Nelson

Date Reviewed: 4/13/92

Reviewer: Michael J. K. Nelson

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: Week of 4/6 - 4/12 1992

VOCs, CO₂ / CH₄

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
<u>All files Reviewed</u>	<u>✓ EXCEPT WHERE NOTED BELOW</u>
<u>04063</u>	<u>Rolling baseline</u>
<u>04064, 040613, 04073</u>	<u>PCE peak off peak (partially off), but appears OK</u>
<u>040953</u>	<u>poor baseline on peak</u>
<u>040954</u>	<u>Peak present (small), reported as BDL</u>
<u>040955</u>	<u>" " " " " "</u>
<u>040959</u>	<u>Poor baseline on peak</u>

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
<u>04064</u>	<u>PCE data sheet says 28, spread sheet 29</u>
<u>040817</u>	<u>Sum not entered</u>

Signature: Leo Schmick

Date Reviewed: 4/23/92

Reviewer: LEO LEHMICKE

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 1

Data Pack Reviewed: 4/13 - 4/19, 1992

VOCs & CO₂/CH₄

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
04144	✓
04158	✓
04168	✓
041620	✓
041631	✓
041642	✓
04177	✓
041624 - 041912	All ✓ except some $\bar{e}$ had baseline etc. see next page

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
04144 4/14 influ 283 hrs dup	✓
04158 4/15 influ 308 hrs (CO ₂)	✓
04168 4/16 MHV-2-B	✓
041620 4/16 MHV-5-B	data sheet 33, spread 32 (rounding problem)
041631 4/16 MHV-2-B (CO ₂)	data sheet ? 4.1? spreadsheet ? (No entries)
041642 4/16 MHV-5-B (CO ₂)	data sheet ? spreadsheet .98
04177 4/17 influ 362 hrs (CO ₂)	data sheet ? " 1.41
041624 - end (041912)	No data sheet entry (ppm)
Signature: Leo Lehmicke	Date Reviewed: 4/27/92

Reviewer: Leo Lehmicke

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 4/13 - 4/19, 1992

VOCs, CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
041632, 04184	Bad peak baseline
041628, 041635	CO ₂ peak off page (can't check)

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)

Signature:

Leo Lehmiche

Date Reviewed: 4/27/92

Reviewer:

Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 1

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 7/20 - 4/26

VOCs, CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
04203 50 ppm CH ₄ std	rolling baseline = double? peak or split integration for TCE
042032	✓
04219	✓
04232	✓
042312	✓ (Bad baseline on non reported peak)
042330	✓
042344	✓
042356	poor peak & rolling baseline near TCE
042410	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
No concentrations on data sheets	from 04203 to 04219
4/24 in pt 180.62	CH ₄ ✓ CO ₂ .046 reported as BDH → clear peak
4/21 in pt 460 hrs (CO ₂ /CH ₄)	No spreadsheet for this date
4/23 in pt 501 hrs	Data sheet 9 (Gex), Spreadsheet BDC
4/23 MHV-3-B	✓
4/23 in pt. 501 hrs	No spreadsheet for this date
4/23 MHV-3-C (CO ₂)	✓
4/23 efflu 508 hrs	✓

Signature: Leo Lehmick

Date Reviewed: 4/29/92

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 4/27 - 5/3 1992

VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:04277 VOC's infl 596 hr	✓ slight rolling baseline near TCE
E:04289 CH ₄ /CO ₂	✓
E:04296 " Effluent 644 hr	✓
E:04308 VOC's MHV-2-A	✓
E:043019 VOC's MHV-4-C	✓
E:043033 CH ₄ /CO ₂ MHV-2-B	CO ₂ baseline slightly high (low value)
E:043045 " MHV-5-C	✓
E:050110 " Ext A+ 22.2	✓
E:05023 / 05037 VOC's infl 716 / infl 740	✓✓ slight rolling baseline near TCE

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
E:04277 infl. 596 hrs 4/27	✓
E:04289 CH ₄ /CO ₂ infl 620 4/28	✓ CH ₄ .06 recorded as BDL, clear peak
04296 CH ₄ /CO ₂ efflu 644 4/29	✓
04308 4/30	✓
043019 4/30	✓
043033, 043045 4/30	✓
050110 5/1	✓
05023 / 05037 infl. 716 / infl. 740 5/2 5/3	✓✓

Signature: Leo Lehmiche

Date Reviewed: 5/11/92

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 5/4/92 - 5/10/92

VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:05052 infl. 788 hrs	✓ Rolling baseline near TCE but OK
05062 " 812 "	✓
CO ₂ /CH ₄ 05068 " 820 "	✓
05077 MHV-2-B	✓
050717 MHV-5-A	✓
CO ₂ /CH ₄ 050726 MHV-1-B	✓
" 050740 MHV-4-B	✓
05083 infl. 859 dup	✓ rolling baseline near TCE

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
E:05052 infl. 788 hrs 5/5	Sum off by 1
05062 " 812 " 5/6	✓
CO ₂ /CH ₄ 05068 " 820 5/6	✓ .09 reported as BDL for CH ₄ ... clear peak
05077 MHV-2-B 5/7	✗ TCE off by 1
050717 MHV-5-A 5/8	✓
050726 MHV-1-B 5/7	✓
050740 MHV-4-B 5/7	✓
05083 infl. 859 dup	✓
Signature: L Leo Lehmick	Date Reviewed: 5/15/92

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 5/11 - 5/17 1992

VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
OS113 ERM 932 hrs	✓ OK
OS110 infl. 438	Proc general baseline
OS129 infl. 962	✓
OS137 infl 986 CO ₂	✓
OS146 ERM 1005 "	✓
OS1416 MHV-3-C , OS1424 MHV-8	✓ ✓
OS1435 MHV-3-C , OS1445 infl. 1613	✓ ✓
OS156 infl. 1029 CO ₂ , OS1515 infl. 1036	✓ ✓
OS167 ERM 1056 CO ₂	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
OS113 5/11 6:03 , OS1110 5/11 12:59	✓ ✓
OS129 5/12 10:52 , OS137 5/12 15:06	✓ ✓
OS146 5/14 4:28	✓
OS1416 5/14 8:44	✓
OS1424 5/14 12:05	? No spreadsheet, what is MHV-8?
OS1435 5/14 12:04 , OS1445 5/14 12:06	✓ ✓
OS156 5/15 5:04 , OS1515 5/15 16:40	✓ ✓
OS167 5/16 8:10	✓
Signature: Leo Lehmick	Date Reviewed: 5/22/92

Reviewer: Leo Lehmick

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QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 5/18 - 5/24 1992 UOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
Infl 6 hr. 05186 CO ₂ /CH ₄	✓
Infl 28 hr. 051916 V	✓
EDF 45 hr. 05203 CO ₂ /CH ₄	✓
EDF 69 hr. 05211 V	✓
MHV-2-C 052117	✓
MHV-3-A 052126	✓
MHV-1-A 052136 CO ₂ /CH ₄	✓
MHV-3-B 052143 "	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Infl 6 hr. 5/18 15:14 05186	✓
Infl 28 hr. 5/19 17:31 051916	✓
EDF 45 hr. 5/20 21:16 05203	✓
EDF 69 hr. 5/21 4:48 05211	4 ppm TCE reported as RDE
MHV-2-C 5/21 12:29 052117	NO Data sheet 3, -01 ^{Speed} set set 33, 41
MHV-3-A 5/21 16:16 052126	PCE -1.5 (DS) RDE on Speed
MHV-1-A 5/21 13:11 052136	✓
MHV-3-B 5/21 16:21 052143	✓

Signature: Leo Lehmick

Date Reviewed: 5/30

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 5/18 - 5/24 VOC's & CO₂/CH₄

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
MHV-S-C 052154 CO ₂ /CH ₄	Bad, but sample probably RDI
Ext RT 58.5 052210	
Inj RT 120.75 052220 CO ₂ /CH ₄	✓
Infl. 117 hrs 05235	✓
Infl. 141 hrs 05249	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
MHV-S-C 5/21 20:13 052154 CO ₂ /CH ₄	✓
Ext RT 58.5 5/22 9:27 052210	✓
Inj RT 120.75 5/22 10:59 052220 CO ₂ /CH ₄	✓
Infl 117 hrs 5/23 5:30 05235	✓
Infl 141 hrs 5/23 6:53 05249	✓

Signature: Geo Schmidt

Date Reviewed: 5/30

Reviewer: Loo Lohnicke

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 5/25 - 5/31 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E 05253 InEI 165 CO ₂ /CH ₄	✓
" 052515 InEI 174 VOC	✓
" 05268 " 195 CO ₂ /CH ₄	✓
" 052710 " 218 CO ₂ /CH ₄	✓
" 052810 MHV-2-C VOC	✓
" 052820 MHV-4-C	✓
052830 MHV-2-B	✓
" 052839 MHV-4-B	✓
"	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
5/26 2:23 05253	✓ .07 CH ₄ as BDL
" 0:42 052515	✓ (total 227 cc data sheet 223 cc spread, "BDL" note)
" 10:16 05268	✓ .09 CH ₄ as BDL
5/27 10:04 052710	✓ .08 CH ₄ as BDL
5/28 8:34 052810	✓
" 12:55 052820	✓
" 12:45 052830	✓
" 15:03 052839	✓
Signature: Leo Lehmiche	Date Reviewed: 6/8/92

viewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 1 of 2

WSRC In Situ Biological Treatment Project

New Std Curves

TCE = .9995

PCE = .997

Data Pack Reviewed: 5/1 - 6/7 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:06012 Infil. 343 hrs CO ₂ /CH ₄	✓
06022 Infil. 367 " "	✓
06027 Effl. 367 dup VOC	✓
06036 Infil. 391 " "	✓
06048 MHU-1-B " "	✓
060414 MHU-3-B " "	✓
060424 Infil. 421 hrs " "	✓
060433 MHU-2-C dup CO ₂ /CH ₄	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
E:06012 6/1 4:55	✓✓
06022 6/2 5:07	✓✓
06027 6/2 6:33	✓✓ - value for TCE ⁴⁰⁰ on Data sheet Rep. As BDL
06036 6/3 6:12	✓
06048 6/3 8:37	✓ Total G Reported as BDL (Sum of 2 BDL #s)
060414 6/4 11:16	✓ Clear peaks giving - values (BDL) Ana ~ 43 of 25 ppm std
060424 6/4 15:40	✓
060433 6/4 13:54	✓
Signature: Leo Lehnicker	Date Reviewed: 6/12/92

Reviewer: Leo Lehnicker

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 2 of 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 6/1-4/97 VOC, + CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E: 060442 MHV-5-B CO ₂ /CH ₄	Baseline a little high
06059 Ext BT 58.51 VOC	✓
060515 Ext BT 22.2 CO ₂ /CH ₄	✓
060523 Ext BT 17.8 "	Bad!
06068 Effl 471 VOC	✓
06077 Effl 490 CO ₂ /CH ₄	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
060442 6/4 17:02	✓ .022 as BDL
06059 6/5 9:44	✓
060515 6/5 9:12	✓
060523 6/5 12:37	✓ (BDL) Good baseline would give ~.03
06068 6/6 16:20	✓ Check 4th sample vs 060414 here "ANA gives 5 ppm
06077 6/7 9:52	✓

Signature: Leo Lehmick

Date Reviewed: 6/12/97

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 1 of 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 6/8/92 - 6/14/92

New Std Curves: All $R^2 > .995$ except PCE .988

VOC's & CH₄/CO₂

Somewhat noisy

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E06082 In Situ CH ₄ /CO ₂	✓
061017 EPH 13 "	✓
061014 In Situ "	✓
06119 MHV-2-B VOC	✓
061125 MHV-5-A "	✓
061132 MHV-1-A CH ₄ /CO ₂	✓
061139 MHV-3-B "	✓
061148 MHV-5-C "	Pass CO ₂ baseline but sample is close to DL

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
6/8 4:27 06082	✓ .009 CH ₄ as BDL
6/10 5:55 06104	✓
6/10 11:13 061014	✓
6/11 9:41 06119	✓
6/11 17:16 061125	✓
6/11 13:23 061132	✓ #'s reported to 4 decimal places?
6/11 15:14 061139	✓
6/11 18:59 061148	✓
Signature: Leo Schmieke	Date Reviewed: 6/19/92

Reviewer: Leo Schmieke

**QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET**

Page 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 6/8/92 - 6/17/92

VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
061219 Inj. 61 Dup CO ₂ /CH ₄	✓
061227 Inj BT 2983 CH ₄ /CO ₂	✓
06139 Inj 189 "	✓
06145 Inj 114 VOC	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
061219 6/12 15:04	✓
061227 6/12 17:49	✓
06139 6/13 11:05	✓
06145 6/14 11:01	✓

Signature: *Leo Lehmick*

Date Reviewed: 6/19/92

Reviewer: *Leo Lehmick*

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 1 of 2

WSRC In Situ Biological Treatment Project

→ New Std Curves All .995+ except PCB (.988)

CO₂/CH₄ .499+

Data Pack Reviewed: 6/15 - 6/21 VOC's ± CH₄/CO₂ Received alternate set of chromatograms from Phil K

Initial section is from previous week

3/6/17 Chromatogram? + alternate spread sheets (Appendix C) - Amherst wells

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E: 06153 EPP1 134.5 hrs VOC	✓
06165 InRI 157 " "	✓
061611 InRI 163 " CH ₄ /CO ₂	✓
06176 InRI 181 " "	✓
06182 InRI 205 " VOC	✓
061818 MHV-3-B "	Bizarre ^{band} peak near TCE RT & Poor baseline
061825 MHV-5-B "	✓
* 061825 CH434 MHV-1-B CH ₄ /CO ₂	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
06153 6/15 7:18	✓
06165 6/16 7:00	✓
061611 6/16 13:55	✓
06176 6/16 6:24	✓
06182 6/18 6:39	✓
061818 6/18 15:56	✓ TCE at BDL (see above)
061825 6/18 12:22	✓
CH434 6/18 16:56	✓
Signature: Leo Lehmick	Date Reviewed: 6/26/02

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 2 of 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 6/16 - 6/21/92 VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E: CH ₄ 42 ^{MHW-3-C} CH ₄ /CO ₂	✓ no baseline shift small CO ₂ bump
CH ₄ 49 Inj 214 "	✓
E: 06195 Inj 230 "	✓ CO ₂ peak slightly off base - looks OK
061915 Inj BT 298 " "	OK for CH ₄ BAD for CO ₂
061920 Inj 233 VOC	Rolling: bad baseline on 2 broad irrelevant peaks ^{↗?} ^{between} ^{down} ↓ UCI Reported as down

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
CH ₄ 42 6/18 19:38	✓
CH ₄ 49 6/18 21:53	✓
06195 6/19 7:40	✓
061915 6/19 10:02	(-) 0.11 on data sheet reported as +.011 on spreadsheet ^(See 48 row)
061920 6/19 10:10	✓ OK OK
Signature: Leo Lehmick	Date Reviewed: 6/26/92

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC in Situ Biological Treatment Project

Data Pack Reviewed: 6/22 - 6/28
CH₄/CO₂ + VOC

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
06232 VOC Infl. 15	✓
06239 CH ₄ /CO ₂ " 20	✓
06245 VOC Effl. 39	✓
062410 CH ₄ Infl. 42	✓
06255 VOC MHV-2-A	✓
062515 VOC MHV-4-B	✓
062524 CH ₄ MHV-1-A	✓
062536 CH ₄ MHV-4-B	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
06232 6/25 5:54	✓
06239 6/25 14:55	✓
06245 6/24 7:04	✓
062410 6/24 10:18	✓
06255 6/25 6:51	✓
062515 6/25 11:14	✓
062524 6/25 11:42	✓
062536 6/25 16:16	✓
Signature: Joe Flynn	
Reviewer: Leo Holmich	
Date Reviewed: 7/6/92	

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 2 of 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 6/22 - 6/28 VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
06264 EXT BT 22.2 VOC	✓
062613 EXT BT 138.8 CH ₄	✓
06273 Infil. 113 D _{up} VOC	✓
06282 Infil 137 CH ₄	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
06264 6/26 7:28	✓
062613 6/26 9:26	No Data sheet CH ₄ CO ₂ Spread " 0 3 ?
06273 6/27 4:15	✓
06282 6/28 8:56	✓

Signature: Leo Lehmich

Date Reviewed: 7/8/92

Reviewer: Leo Lehmich

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 1 of 2

Data Pack Reviewed: 6/29-7/5 VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:06292 In Pl. 157 VOC	✓
06302 " 182.5 "	✓
07014 " 207 CO ₂	✓
07025 MHV-1-B VOC	✓
070217 MHV-4-A CO ₂ /CH ₄	✓
070223 In Pl. 235.5 VOC	✓
070233 MHV-3-B CO ₂ /CH ₄	✓
070241 MHV-5-C "	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)															
06292 6/29 5:13	✓															
06302 6/30 6:16	✓															
07014 7/1 7:22	✓															
07025 7/2 11:52	✓															
070217 7/2 16:54	✓															
070223 7/2 19:18	<table><tr><td></td><td>Date Sheet</td><td>Total</td><td>Spreadsheet</td><td>Total</td></tr><tr><td>TCE</td><td>94</td><td>274</td><td>93</td><td>263</td></tr><tr><td>PCE</td><td>150</td><td></td><td>170</td><td></td></tr></table>		Date Sheet	Total	Spreadsheet	Total	TCE	94	274	93	263	PCE	150		170	
	Date Sheet	Total	Spreadsheet	Total												
TCE	94	274	93	263												
PCE	150		170													
070233 7/2 18:06	✓															
070241 7/2 21:04	✓															
Signature: Leo Schmidt	Date Reviewed: 7/10/92															

Signature: Leo Lehmiche

Date Reviewed: 7/10/92

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 242

Data Pack Reviewed: 6/29 - 7/5 UCC's & CH₄ / CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
07038 Infl. 254 CO ₂ /CH ₄	✓
070315 Inj BT 240.67	✓
07053 IAL 305	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
07038 7/3 13:09	✓
070315 7/3 15:35	✓
07053 7/5 11:56	✓

Signature: Leo Lehnich

Date Reviewed: 7/10/02

Reviewer: Leo Lehnich

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 1 of 2

Data Pack Reviewed: 7/6-7/17 VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
F-07061 Infil 327 hrs CH ₄ /CO ₂	✓
07069 Infil 333 " "	✓
07077 Infil 355 S " VOC	✓
07092 Infil 399 " "	✓
070910 MHV-3-B " "	✓
070922 MHV-S-B " "	✓
070927 MHV-2-A CO ₂ /CH ₄	✓
070936 MHV-4-C " "	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
7/6 9:21 07061	✓
7/6 16:16 07069	✓
7/7 13:04 07077	✓
7/9 10:06 07092	✓
7/9 14:05 070910	✓
7/9 19:26 070922	✓
7/9 18:10 070927	✓
7/9 20:57 070936	✓
Signature: Leo Schmick	Date Reviewed: 7/14/92

Reviewer: Leo Schmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 2 of 2

Data Pack Reviewed: 7/6 - 7/12 VOC's & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
071016 ¹⁰⁴ Inj BT 120.75 CO ₂ /CH ₄	✓
071017 Inj BT 22.21 "	✓
07123 Inj BT 460.5 VOC	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
7/6 ^{12:49} Inj BT 120.75	✓
7/10 15:27 071017	✓
7/12 11:44 07123	✓

Signature: Leo Lehmick

Date Reviewed: 7/14/02

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 1 of 2

Data Pack Reviewed: 7/13 - 7/19 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:07137 Infil 452.5 VOC	✓
071315 Infil 452.5 "	✓
071414 Infil 506.5 CO ₂ /CH ₄	✓
07157 Infil 535.5 VOC	✓ general upping baseline
071515 Mined Blank CO ₂ /CH ₄	✓ a bit high
071614 MHV-2-B (dup) VOC	✓ the PCE Rolling baseline near TCE TCE baseline is bad! data probably incorrect (Saw for dup)
071622 MHV-4-C "	✓ PCE baseline a bit high
071632 Infil 554 CO ₂ /CH ₄	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
07137 7/13 12:23	✓
071315 7/13 15:56	✓
071414 7/14 15:07	✓
07157 7/15 20:15	✓
071515 7/15 17:45	—
071614 7/16 14:49	✓ But TCE # is probably inaccurate
071622 7/16 18:42	✓
071632 7/16 16:18	✓
Signature: Leo Lehmiche	Date Reviewed: 7/21/92

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 2 of 2

Data Pack Reviewed: 7/13-7/19 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
071633 Effl 554 CO₂ /CH ₄	✓
071643 MHV-3-B CO ₂ /CH ₄	✓
071651 Infl. 556 "	✓
08174 Infl BT 20.83 CH ₄	✓
071710 Infl 583 CH ₄ /CO ₂	✓
07188 Infl 662 "	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
071633 7/16 16:36	✓
071643 7/16 19:45	✓
071651 7/16 22:07	✓
08174 7/17 14:53	✓
071710 7/17 16:50	No data?
07188 7/18 10:34	✓
Signature: Leo Lehmiche	Date Reviewed: 7/21/92

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 1 of 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 7/20 - 7/26/92 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:07201 Infil 650 CO ₂ /CH ₄	✓
07204 " 655 VOC	Bad rolling baseline TCE off peak, appears to have had baseline
072112 " 679.5 "	✓
072215 " 703.5 CO ₂	✓
072314 MHV-3-B VOC	✓
072324 MHV-5-B (A ₉) "	✓
072335 MHV-2-A CO ₂	✓
072344 MHV-4-B "	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
07201 7/20 8:54	✓
07205 7/20 17:38	✓ TCE possibly overestimated
072112 7/21 15:17	✓
072215 7/22 14:43	✓
072314 7/23 14:00	✓ Can TCE PCE should read 20 (readings)
072324 7/23 18:43	RE ✓ TCE should read 16 (readings)
072335 7/23 17:23	✓
072344 7/23 20:18	✓

Signature: Leo Schmick

Date Reviewed: 7/28/92

Reviewer: Leo Schmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

P₂₄ Z. of Z

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 7/20 - 7/26/92 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
07243 I ₂ #1 746 CO ₂	✓
072412 " 746 VOC	✓
072422 Ext BT 22.2 CO ₂	✓
07264 Infil 771.5 "	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
07243 7/24 9:53	✓
072412 7/24 11:54	✓
072422 7/24 14:48	✓
07264 7/26 11:07	✓

Signature:

Date Reviewed:

Reviewer:

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

Page 1 of 2

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 7/27 - 8/2 VOCs & CH₄/CO₂

[Site shut down 8/1 - 8/2]

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:07271 Infil 794 VOC	✓ Rolling Baseline
07281 " 820 CO ₂	✓
07296 " 843 "	✓
072914 " 847 VOC	✓
07303 E:07303 Dup "	✓? PCE # generated from no baseline? (Dup also)
073011 MHV-3-A "	? PCE & TCE #'s generated from no peaks
073024 MHV-4-B Dup "	✓
073023 Infil 870 VOC	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
07271 7/27 12:21	✓
07281 7/28 10:20	✓
07296 7/29 11:41	✓ < Dupl ~20% diff >
072914 7/29 15:33	✓
07303 7/30 5:18	✓ But # probably false (see below)
073011 7/30 12:00	✓ " " " " " "
073024 7/30 12:23	✓
073023 7/30 16:56	✓
Signature: Leo Lehmiche	Date Reviewed: 8/4/92
viewer: Leo Lehmiche	

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Page 2 of 2

Data Pack Reviewed: 7/27 - 8/2 UOCs + CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
073033 MHV-2-C CO ₂	✓
073041 MHV-4-C CO ₂	✓
073045 MHV I.A.I. 870 CO ₂	✓
08019 EXT RT 13.8' CO ₂	✓
08017 Ij RT 20.8 "	✓
* See Sample 08017	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
073033 7/20 15:29	✓
073041 7/30 12:59	✓
073045 7/20 19:13	✓
08019 8/1 13:47	✓
08017 8/1 15:41	✓
Signature: <i>Leo Lehmick</i>	Date Reviewed: 8/4/92

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 8/3 - 8/9/92 VOC, & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	✓ OK except
General problems = "electrical spikes"	
See 080731 as example	
STANDARDS ?	
BLANKS ?	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
080146 8/4 19:20 (CO ₂)	No spreadsheet data reported where is new?
080713 8/7 15:42 VOC	Should be RDL
080719 " "	VCI peak? Retention time,
080425 8/4 18:48	Other new peaks?
EXT VEC VAC/PRESS 516 F16S (3→2)	1045 ppm TCE reported: should be diluted
INST 7 ₂ CH ₄ /CO ₂ " (5→3)	
Signature: Leo Lehmicke	Date Reviewed: 8/11/92
Reviewer: Leo Lehmicke	

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 8/10/92 - 8/16/92 VOCs & CH₄/CO₂

Chromatograms Reviewed (Baseline & Peak Symmetry)

[illegible]

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample for VOC & CO ₂ CH ₄ ✓ for each day	- Final VOC (liters) not on spreadsheet anywhere
8/10 13:38 VOC	→ ??
8/13 14:24 VOC	7 vol reported as 826 65.6 TCE reported as 65
All others OK	✓
Signature: Len Lehnich	Date Reviewed: 8/14

Reviewer: Leo Lehmknecht

Date Reviewed: 8/18

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 8/17/92 - 8/23/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

[illegible]

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
✓ Final sample each day CO ₂ & VOC.	All OK except
196 08197 (1932) 8/19 11:10	PCE 157 Total 243
Still no spreadsheet for MHV-10, 11, 12	

Signature: Jec Schmick

Date Reviewed: 8/25/42

Reviewer: LEC LEHMICKE

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 8/24/92 - 8/30/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All baseline and peak symmetry appears good.	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
One data set left out of extraction spreadsheet = 8/25 influent @ 124.5 hr = 6 CDC 40 TCE 124 PCE Place this in corrected spreadsheet.	

Signature: Michael Nelson

Date Reviewed: 9/1/92

Reviewer: Michael Nelson

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 8/31 - 9/6/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	✓ All OK except some baseline on: MHU-10: E090325 CDC is example + VC peak lost in other "new" peaks
Blanks	✓
Check stds	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
	Still no MHU-10, 11, 12 Spreadsheet
There is still old monitoring well data which shows CO ₂ < 0.1 instead of BDL Sig figs are still inconsistent	
Signature: Leo Lehmiche	Date Reviewed: 9/9/92
Reviewer: Leo Lehmiche	

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 9/7 - 9/13

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files ✓	All OK except:
E:091019 MHV-10A (2217)	Do not disregard $\pm 10\%$ retention time manually; this is clearly a peak even though you (and I) may not think it is CDC.
E:91019 MHV-4-B (2217)	Why wasn't this sample diluted? Extrapolation is or calculated from AWA? (How does this happen?)
Check Stds, Blanks	OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
✓ Last sample each weekend each day	OK
Signature: Leo Lehmick	Date Reviewed: 9/15

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 9/14/92 - 9/20/92

ALL CHROMATOGRAMS REVIEWED

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:091442 INFLU @ 607 HRS (2272)	✓
E:091540 MHV-11-J (2328)	✓
E:091621 INFLU @ 652.5 (2330)	✓
E:091749 MHV-5-C (2379)	✓
E:091835 INST @ 298.3' (2390)	✓ CO ₂ PEAK NOT FULLY INTEGRATED
E:091914 INST @ 20.83' (2397)	✓ " " " " "
E:092011 ^{EFFLU} INFLU @ 750.5 (2401)	✓ SAMPLE NAMED INCORRECTLY (SHOULD BE EFF)

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
E:091442 INFLU @ 607 HRS (2272)	✓
E:091540 MHV-11-J (2328)	✓ MHV-11-J (2313) 0.01 SHOULD BE 60L
E:091621 INFLU @ 652.5 (2330)	✓ EXCEPT SAMPLE ID IN WS = 2331
E:091749 MHV-5-C (2379)	✓
E:091835 INST @ 298.3' (2390)	✓ EXCEPT SAMPLE ID IN WS = 2391
E:091914 INST @ 20.83' (2397)	NOT ENTERED IN WS (PER HAZEN/LINKARD) HAZEN/LINKARD CHECK
E:092011 ^{EFFLU} INFLU @ 750.5 (2401)	✓
	SAMPLE IDENTIFICATION NUMBERS IN SPREADSHEET ARE CORRE
Signature: Paul Kalina	Date Reviewed: 9-23-92
Reviewer: PAUL KALINA	

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 9/21 - 9/27

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
Review All files	OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
✓ last sample, each method, each day	All OK except
Check Stds, Blanks " " " "	
E: 09216 In BT 20:83 9/21	No data slot entry
E: 09275 " " " 9/27	" " " " ?
NO EXT/INT WELL BT SAMPLES	- SYSTEM DOWN

Signature: Leo Lehmick

Date Reviewed: 9/29

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 9/28 - 10/4 10/7 Depent

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	All OK
Peak at 2.35 is being reported As DCM, Std peak is 2.58	NEW 2.5 MIN PEAK IN CO ₂ /CH ₄ RUN

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample, each method each day checked Except E: 092913	All OK When on spreadsheet?

Signature: Leo Lehmiche

Date Reviewed: 10/6

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 10/5-10/11/92 REPORT 10/14/92 HAZEN-L34.RPT

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
CHECKED ALL FILES	✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
MHV - 5C	SIGNIFICANT FIGURES 5 → 3
MHV - 10A 10-2-92	10-2-92 %CO ₂ / %CH ₄ TRANSPOSED?
MHV - 11J	%CH ₄ : 0.01 → BDL
10-6-92 CHKSTD @ 250 PPM	PE: 157 → 158 TOTAL 270 → 271
10-7-92 INFLU @ 162 HRS (2568)	%CO ₂ : 2.30 → 2.28
ALL SPREADSHEET FILES CHECKED	
LAST SAMPLE EACH DAY CHECKED FOR TRANSCRIPTION	
Signature: <i>Paul Kalina</i>	Date Reviewed: 10-13-92

viewer: PAUL KALINA

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 10/12 - 10/18/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All OK	✓
Except E: 101625, 101630 [PCE.W]	Why are there more TCE/PCE peaks giving negative #'s
Why are Std Curves? ←	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
All / stds + Blanks	
Enter data for each method each day	
MHV-ZB	TOO MANY SIG FIG'S → 7.14 = 7
EXTV02 SPREADSHEET 10/17, 10/18	ROWS COLUMNS SHIFTED UP PG'S 2, 3, 4, 5
Signature: Jan [Signature]	Date Reviewed: 10/20/92
Reviewer: Len [Signature]	

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 10/19 - 10/26/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files ✓	All OK ✓
Correct on false peaks in inj gas	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last entry for each method each day	All OK ✓

Signature: Leo Lehmiche

Date Reviewed: 10/27/92

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 10/26 - 11/1

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
All final samples for each method each day	
All check stds & blanks present	✓

Signature: Leo Schmide

Date Reviewed: 11/3/92

Reviewer: LEO LEHMICK E

**QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET**

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: $11/2 - 11/8$

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All Files checked	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last data file ✓ for each day	All OK

Signature: L. Leo Schmitt /

Date Reviewed: 10/10

Reviewer: Leo Schmitt / Paul Kalin

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 11/09 - 11/15 / 92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All Reviewed	✓ All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
All final entries, each method each day	All OK ✓ Except two insignificant entries; rounding to 0.01

Signature:

Leo Lehmicke

Date Reviewed: 11/17

Reviewer:

Leo Lehmicke

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 11/16 - 11/22 92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	✓ All OK
	except E:111925 → W. end pre-peaks
	presumed "CO" peaks still present
	on effluent samples

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last file each method each day checked	✓
	We want written confirmation
	on the VC reporting decision!
	We can not just say "BDE"
Signature: Joe Lehmick	Date Reviewed: 11/24/92

Reviewer: Lee Lehmick

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 11/23 - 11/29 / 92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last file each day, each method	

Signature: Leo Lehmick

Date Reviewed: 12/1/92

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 11/30 - 12/6 / 02

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	✓ All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last file of each day each method checked	✓ All OK

Signature: Leo Lemmich

Date Reviewed: 12/8 / 02

Reviewer: Leo Lemmich

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 12/7/92 - 12/13/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
	OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
	OK

Signature:

Leo Lehmicke

Date Reviewed: 12/17

Reviewer:

LEO LEHMICKE

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Silver Spring, Maryland 20910

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2 of 7

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 12/14-12/20

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
ALL	OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
ALL	OK
TRANSCRIPTION CHECKED: E: 121412	✓
121512	✓
121612	✓
121745	✓
121835	✓
12199	✓
12208	✓

Signature:

Paul Kalina

Date Reviewed: 12/22

Reviewer:

PAUL KALINA

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 12/21 - 12/27/92

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
Wht ^{100%} ext RT 555 min? ^{100%} C TCE/PCP?	
PC CH4, CO2	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last Five each day checked	✓

Signature: *for Himmels*

Date Reviewed: 12/29/92

Reviewer: *Leo Lehmanke*

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 12/28 - 1/3

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
	✓ All ok

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last sample each day ✓	OK

Signature: Joe Lehman

Date Reviewed: 1/6

Reviewer: Lee Lehman

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/4 - 1/4 - 1/10/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
E:01048, E:010510	39,000 Area for PCE = -3 ppm ?
E:01067	Why is 250 ppm v Std cc for all 6 VOC's all 2 clean sudden!
When did all the monitoring well data go?	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Checked final sample each day	✓ OK

Signature: Leo Lehmiche
Reviewer: Leo Lehmiche

Date Reviewed: 1/13

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 1/11/93 - 1/17/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
ALL	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheet)
Last entry each day	✓ OK

Signature: Lee Lehmicki

Date Reviewed: 1/20/93

Reviewer: Lee Lehmicki

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 1/18 - 1/24

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
	All ✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
No spreadsheets	

Signature: *Jim Schmidt*

Date Reviewed: 1/26/97

Reviewer: *Jim Schmidt*

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 2/1/93 - 2/7/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
	Δ 11 112

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final Sample - 2/1/93	

Signature: Lee Schmitt

Date Reviewed: 2/1/93

Reviewer: Lee Schmitt

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 2/8 - 2/14/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All ✓	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final Sample checked and OK	2 n ⁺ transcribed

Signature: Len Lehmich

Date Reviewed: 2-17-93

Reviewer: Lee Lehmich

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 2/15 - 2/21/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All checked	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample ✓ each day	All OK

Signature: Leo Lehmicke

Date Reviewed: 2/22

Reviewer: Leo Lehmicke

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 2/22 - 2/25/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All checked	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last entire pack data	All OK
February 13 MW-7A	7000 ppm Tot + Pet
Signature: Joe Silmiche	Date Reviewed: 3/2/93

Reviewer: Leo Lehmich

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/1/93 - 3/7/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files ✓	✓ All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
All final samples ✓	All OK

Signature: Joe Lehman

Date Reviewed: 3/10/93

Reviewer: Lee Lehman

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/8/03 - 3/14/03

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All ✓	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
All samples good data	All OK

Signature: Len Lehman

Date Reviewed: 3/17/03

Reviewer: Len Lehman

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/15/93 - 3/21/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample ✓ each day	✓ All OK

Signature: Leo Lehmick

Date Reviewed: 3/23/93

Reviewer: Leo Lehmick

QUALITY ASSURANCE/QUALITY CONTROL REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/22 - 3/28/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All checked	All OK ✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final Sample each day	
E: 03284 (4/19) 3/23	CH ₁ 237 ^{12.54} 22.57 OK
Signature: Leo Lehmick	Date Reviewed: 3/30/93

Reviewer: LEO LEHMICKE

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 3/24 - 4/4

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All files checked	

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Last file each day ✓	All OK

Signature: Leo Lehmiche

Date Reviewed: 4/4

Reviewer: Leo Lehmiche

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 4/5 - 4/11/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All ✓	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample each day ✓	All OK ✓

Signature: Leo Lehmicki

Date Reviewed: 4/14/93

Reviewer: Leo Lehmicki

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 4/19 - 4/25/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All checked	All OK

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample each rotter each day where is N ₂ O reported?	OK
Why no Cator # ⁽²⁰⁴⁾ 's on spreadsheet? All BDL? What happened to 4/23?	- OK
Signature: Leo Lehmick	Date Reviewed: 4/27/93
Reviewer: Leo Lehmick	

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 4/26 - 4/30

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All checked	All OK ✓

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Where is p 4 of spreadsheet?	
Last sample, each method, each day	All OK ✓
Signature: Leo Lehmich	Date Reviewed: 5/5/93

Reviewer: Leo Lehmich

QUALITY ASSURANCE/QUALITY CONTROL
REVIEW SHEET

WSRC In Situ Biological Treatment Project

Data Pack Reviewed: 5/3 - 5/5/93

Chromatograms Reviewed (Baseline & Peak Symmetry)

Filename	Comments (✓ = OK)
All reviewed	All OK except
E:05035	No baseline peak size → BDL by visual

Spreadsheet Data Reviewed

Sample Date/Time	Comments (✓ = Agrees with data sheets)
Final sample each method, each day	All OK ✓

Signature: Leo Schmucke
Reviewer: Leo Schmucke

Date Reviewed: 5/12/93

**QUALITY ASSURANCE REPORT
for
IN SITU BIOLOGICAL TREATMENT PROJECT**

Prepared for:

**Westinghouse Savannah River Company
Alken, South Carolina**

Submitted by:

**ECOVA CORPORATION
18640 NE 67th Court
Redmond, Washington 98052
(206) 883-1900
January 10, 1992**

P.N. 1117

INTRODUCTION

The purpose of this Quality Assurance Report is to document personnel, operating procedures and record keeping that will ensure performance of high quality work throughout this project. All procedures will be in conformance with WSRC-1-01.

PROJECT PERSONNEL

Key personnel and their responsibilities are summarized in the organizational chart (Figure 1). Curriculum Vitae for key technical personnel are attached.

Dr. Michael Nelson will be responsible for overall technical direction and oversight and is designated the Technical Program Manager for the project. Corporate oversight will be performed by Alan Fuhrman, corporate CFO. The primary responsibility of day-to-day operations, issue of reports, financial controls, engineering and procurement will be the responsibilities of Jim Borthen, Project Manager. All analytical procedures, including methods development, system configuration, analytical operations and analytical QA/QC will be the responsibility of Tom Maziarz, Project Chemist. These personnel will normally operate out of the ECOVA corporate office. They will maintain close communication with site operations by telephone, fax, and computer-link. In addition, one or more of these individuals, as appropriate, will be on-site during critical site activities which include startup and any field problems that cannot be corrected by the on-site staff.

The on-site staff will include an On-site Manager and support Field Technicians. Doug Derbes will act as the On-site Manager and will be responsible for performing system operations, on-site management, analytical sampling and analysis, and preparation of weekly reports. The Field Technicians will be local hires and will act as assistants to Mr. Derbes. The Field Technicians will have previous experience with field sampling and chemistry methods. They will be trained by Mr. Maziarz and Mr. Derbes as to the specifics of the system operations, analytical procedures and documentation requirements for this project. The qualifications of potential Field Technicians will be submitted to the STR for approval prior to hiring. The Field Technicians will also attend the appropriate Savannah River Health and Safety and Security training prior to work on-site.

FIGURE 1: WESTINGHOUSE SAVANNAH RIVER PROGRAM ECOVA ORGANIZATION STRUCTURE

JAMES BORTHEN, P.E.
Project Engineer

James Borthen is a project engineer specializing in the design, fabrication, installation and operation of bioreactors and related equipment used in the treatment of contaminated water and soil. Mr. Borthen is experienced in the use of surface reactors to introduce nutrients, oxygen and microorganisms to promote in situ bioremediation, and with their use in the aboveground treatment of soil and water. He designs reactor vessels and related mechanical equipment, piping and pumping systems, and process monitoring equipment. He has more than 10 years of project management and field experience. Mr. Borthen most recently was field project manager for the treatment of soil and groundwater at a Portland, Oregon, site contaminated with pentachlorophenol.

Education:

M.B.A., Finance, University of Washington, 1978

B.S., Chemical Engineering, University of Washington, 1974

Professional Engineer, Washington, 26459

Licensed Underground Storage Tank Removal Supervisor, Washington, 313

Corporate Experience:

1989 - Present:	ECOVA Corporation	Project Engineer
1987 - 1989:	Abide American, Inc.	Project Manager
1979 - 1985:	Schlumberger, Ltd.	Project Engineer
1977 - 1978:	The Boeing Company	Materials Engineer

Related Project Experience:

- Supervised field activities for the remediation of soil and groundwater at a Portland, Oregon, site contaminated with pentachlorophenol. Directed the operation of three 26,000-gallon bioreactors and two 10,000-gallon bioreactors used for the biological treatment of soil in an aqueous slurry. This project required the mobilization and use of heavy special purpose equipment on the site, management of multi-shift field crews, excavation of soil and construction of a treatment complex containing large-capacity bio-slurry tanks, a mobile laboratory and field support facilities.
- Project Engineer for the treatment of 4,000 cubic yards of contaminated soil at an oil company site in Oregon. Provided design criteria for excavation/screening/stockpiling operations; batch mixer unit and feed hopper/conveyor; slurry bioreactor units; and miscellaneous pumps and piping. Prepared a work plan and engineering drawings for submission to the Oregon Department of Environmental Quality.

- Project Manager for constructing portable water treatment system for major national research institute. The system monitored, controlled and chemically pre- and post-treated water for use in solar ultraviolet oxidation process to remove contaminants from groundwater.
- Supervised well installation operations for groundwater sampling projects. Responsible for installation of more than 50 wells.
- Designed and installed wells, piping and flow processes for an in situ bioremediation system in California to treat soil and groundwater contaminated by benzene, toluene, ethylbenzene and xylene. Mr. Borthen performed system engineering and prepared preliminary and detailed engineering drawings, and assisted in the installation of equipment.
- Project engineer for construction management services team on variety of projects, providing progress inspection, cost estimating and schematic layout design.
- Managed data conversion project for USDA Forest Service using Intergraph Microstation CAD software. Responsibilities included maintaining software format conversion program, hardware and software system programming and configuration, quality control and Forest Service liaison.
- Special Services engineer providing coordination, supervision and performance of seismic operations in offshore and arctic regions. Responsibilities included field interpretation of seismic results, particularly for oil exploration ventures.
- Engineer-in-charge for regional engineering field office in Cody, Wyoming. Duties included operations management and administration of cost control, equipment maintenance and training programs.
- Field engineer responsible for coordinating, supervising, and performing geophysical measurement services to the oil exploration industry. Work involved use of computer-controlled measuring equipment, radioactive materials and explosives and heavy equipment.
- Materials engineer for installation of materials in commercial aircraft. Interfaced with design, manufacturing and quality assurance groups to ensure production goals and compliance with FAA regulations.

THOMAS MAZIARZ
Project Manager

Mr. Maziarz specializes in the development and application of physical and chemical treatment processes for the cleanup of hazardous wastes in soil and water. He evaluates the effectiveness of various treatment technologies, including soil washing, thermal processing, solid-phase and bioslurry bioremediation and in situ bioremediation through the use of chemical and microbiological monitoring. Mr. Maziarz has also developed microbiological treatment techniques for the cleanup of pesticides and herbicides in soil and water. He establishes field laboratories for use at client sites.

Education:

B.S., Biology, University of West Florida, 1977

A.S., Oceanographic Technology, Florida Institute of Technology, 1974

Health and Safety Training, Hazardous Waste Operations and Emergency Responses; 29 CFR 1910.210.

Corporate Experience:

1987 - Present	Ecova Corporation	Project Manager/Senior Project Chemist
1985 - 1987	U.S. Environmental Protection Agency	Chemist/Microbiologist
1980 - 1985	EG&G, Bionomics Research Lab	Chemist/Lab Director
1977 - 1980	U.S. Environmental Protection Agency	Chemist

Related Project Experience:

- Managed the design, fabrication, installation and operation of a mobile chemical/microbiological laboratory to support the biological cleanup of 300,000 cubic yards of soil at a former oil refinery site in Los Angeles. The laboratory is designed to handle up to two shifts of chemists and process more than 250 samples per day. Directed the development of a computerized data management system that tracks sample information from the time of sampling until the final report is issued.
- Project Manager for the development and installation of a soil washing system to remove pesticides and herbicides from soil at a former crop dusting hanger/maintenance area in Phoenix, Arizona. Performed bench-scale testing of soil washing on samples from the site; designed a field pilot unit based on laboratory data; managed the development of a mobile treatment unit for use on-site.

- **Manages the ECOVA thermal treatment laboratory. Conducts laboratory testing on the effectiveness of incineration processes using site samples in a Thermogravimetric Analysis (TGA) unit. Measures the efficiency of thermal processes on hazardous wastes; determines operating parameters for field application, including optimum waste makeup, residence time, temperature, and volatile controls required.**
- **Project Manager for the laboratory development and field demonstration of a soil washing system to remove tar and copper from stockpiled soil at a chemical manufacturing plant in Washington. Developed and field tested a closed loop solvent extraction system that will serve as the design basis for a full-scale unit capable of treating approximately 100 tons of contaminated soil per day.**
- **Conducted a variety of research projects investigating the microbial degradation of complex hydrocarbon mixtures, including pesticides, petroleum hydrocarbons and other organic compounds. Duties included isolation and purification of microbial strains and isolation and identification of test chemicals and metabolic products.**
- **Provided analytical support to a toxicology laboratory. Duties included analysis of water, tissue and sediment samples for various toxicants (pesticides, petroleum hydrocarbons, detergents, etc.), method development/modification, equipment maintenance, maintenance of quality assurance records and report writing.**
- **Performed literature review and research on microbiological isolation and enrichment techniques for TNT biodegradation/transformation while an employee at the EPA research laboratory in Gulf Breeze, Florida.**
- **Reviewed research of Kaplan and Kaplan for the U.S. Army on munitions biodegradation/transformation in soil and water.**
- **Developed and evaluated various test systems (flow-through microcosms, static flasks and static cores) to obtain data on possible fate pathways (physical as well as biological) on a variety of xenobiotics in marine environments.**
- **Supervised analytical chemistry effort in support of a laboratory fate testing program for evaluating the transport and transformation of toxic chemicals in the environment. This included training technician level employees in GC, HPLC, TLC and radioisotope methodologies.**
- **Managed microbiological and chemical field analysis during the cleanup of 16,000 cubic yards of diesel-contaminated soil in San Leandro, California. Established a field laboratory on site used to provide rapid turnaround chemical analyses.**

Publications:

Pritchard, P.H., A.W. Bourquin, H.L. Fredrickson and T.P. Maziarz. 1978. System Design Factors Affecting Fate Studies in Microcosms In: Proceedings of the Workshop: Microbial Degradation of Pollutants in the Marine Environment. pp. 251-272.

Pritchard, P.H., J.C. Connolly, M.E. Cleveland, T.P. Maziarz and A.W. Bourquin. 1980 Modeling the Fate of Pesticides in Estuarine Sediment-Water Microcosms. Presented at the National American Society of Microbiologists (ASM), Miami, Florida.

Maziarz, T.P., E.J. O'Neill and P.H. Pritchard. November 1988. Biodegradation of Alkyl Substituted Benzenes in the Water Soluble Fraction of Jet Fuels. Presented at the Society of Environmental Toxicology and Chemistry, Washington, D.C..

Pritchard, P.H., T.P. Maziarz, L.N. Mueller and A.W. Bourquin. October 1986 Biodegradation of Shale-Derived Jet Fuel. Submitted to the U.S. Air Force, Tyndall Air Force Base. In Review.

MICHAEL NELSON, Ph.D.
Senior Scientist

Dr. Nelson specializes in the isolation and characterization of microorganisms capable of degrading hazardous organic compounds. As a project manager and senior scientist at ECOVA, he holds ultimate responsibility for the successful development of field operating parameters on assigned remediation projects. He also directs ongoing bioremediation research projects. He has performed research under contract with the U.S. EPA to isolate and characterize microorganisms capable of degrading hazardous organic compounds.

Education and Professional Affiliations:

Ph.D., Microbiology and Biochemistry, University of Texas, 1982
B.S., Zoology and Chemistry, Texas A&M University, 1975

American Society for Microbiology
American Association for Advancement of Science

Experience:

- Managed field microbiological processes for the in situ bioremediation of groundwater contaminated with trichloroethylene (TCE) at a food manufacturing plant in Central California. The system reduced the concentration of TCE in groundwater from 3,000 ppb to less than 100 ppb in a five-day period. Dr. Nelson's responsibilities included the management of inorganic nutrient, oxygen, and organic carbon source additions to the aquifer in order to stimulate microbial activity.
- Developed field operating parameters for the biological treatment of soil and water contaminated with organic compounds at a Superfund site in Ocean County, New Jersey. Determined microbial growth rates necessary for optimum degradation rates; nutrient formulations; chemical control requirements including temperature, pH and oxygen; and degradation products, stoichiometry and metabolic pathways for the treatment program.
- Senior Scientist assigned to develop field parameters for in situ bioremediation at a manufacturing site in New York with TCE-contaminated soil and groundwater. Conducted chemical analyses of site samples using gas chromatography (GC) methods, and microbiological analysis to determine the indigenous microbial populations. Directed equipment setup and managed daily operations of an eight-week treatability study that measured the effectiveness of various treatment parameters on degradation rates. Provided design criteria for scaleup and field implementation.
- Managed microbiological processes for the cleanup of 16,000 cubic yards of petroleum-contaminated soil in San Leandro, California. Provided laboratory support to field crews and made recommendations on nutrient/oxygen addition schedules and soil processing procedures.

- Performed research under contract with the U.S. Environmental Protection Agency to isolate and characterize microorganisms capable of degrading hazardous organic compounds. Isolated and characterized a bacterium, strain G4, that degrades trichloroethylene (TCE). TCE degradation was shown to be a result of cometabolism by enzymes of an aromatic degradative pathway.
- Conducted a variety of research projects investigating the microbial degradation of complex hydrocarbon mixtures, including pesticides, petroleum hydrocarbons and inorganic compounds. Duties included isolation and purification of microbial strains and isolation and identification of test chemicals and metabolic products.
- Isolated and characterized biodegradative substrates, intermediates and products utilizing gas chromatography, mass spectrometry, high pressure liquid chromatography, UV-visible spectroscopy and radio-tracer methods. Developed molecular genetic methodologies for isolation, cloning and characterizing DNA.
- Developed growth procedures resulting in high yields of methane-producing bacteria grown on acetate. Investigated enzymatic activities of methane-producing bacteria with an emphasis on enzymes involved in the production of methane.
- Developed anaerobic procedures for the preparation and assay of oxygen-sensitive enzymes and growth of strict anaerobes. Modified several standard biochemical procedures so they could be performed anaerobically.
- Performed enzyme purification and characterization techniques, including UV-visible spectroscopy, electrophoresis and column chromatography. Other techniques included thin-layer chromatography, mass spectral analysis, organic syntheses, interfacing and programming computer systems for data reduction, microbial enrichment and selection.

Publications:

Jong, Y.-J., M.J.K. Nelson and E.E. Snell. 1986. Enzymes of Vitamin B₆ Degradation. Purification and Properties of Pyridoxine 5'-Dehydrogenase (Oxidase). J. Biol. Chem. 261:15102-15105.

Lee, Y.-C.C., M.J.K. Nelson and E.E. Snell. 1986. Enzymes of Vitamin B₆ Degradation. Purification and Properties of Isopyridoxal Dehydrogenase and 5-Formyl-3-Hydroxy-2-Methylpyridine-4-Carboxylic Acid Dehydrogenase. J. Biol. Chem. 261: 15106-15111.

Nelson, M.J.K. 1982. Degradation of Pyridoxine by Arthrobacter sp. Doctoral Dissertation. The University of Texas at Austin.

Nelson, M.J.K., D.P. Brown and J.G. Ferry. 1984. FAD Requirement for the Reduction of Coenzyme F₄₂₀ by Hydrogenase from Methanobacterium Formicicum. Biochem. Biophys. Res. Comm. 120:775-781.

Nelson, M.J.K. and J.G. Ferry. 1984. Carbon Monoxide-Dependent Methyl Coenzyme M Methylreductase in Acetotrophic Methanosarcina spp. J. Bacteriol. 160:526-532.

Nelson, M.J.K., S.O. Montgomery, W.R. Mahaffey and P.H. Pritchard. 1987. Biodegradation of Trichloroethylene and the Involvement of an Aromatic Biodegradative Pathway. Appl. Environ. Microbiol.

Nelson, M.J.K., S.O. Montgomery, E.J. O'Neill and P.H. Pritchard. 1986. Aerobic Metabolism of Trichloroethylene by a Bacterial Isolate. Appl. Environ. Microbiol. 52:383-384.

Nelson, M.J.K. and E.E. Snell. 1986. Enzymes of Vitamin B₆ Degradation Purification and Properties of 5-Pyridoxic-Acid Oxygenase from Arthrobacter sp. J. Biol. Chem. 261:15115-15120.

Sowers, K.R., M.J. Nelson and J.G. Ferry. 1984. Growth of Acetotrophic, Methane-Producing Bacteria in a pH Auxostat. Curr. Microbiol. 11:227-230.

Terlesky, K.C., M.J.K. Nelson and J.G. Ferry. 1986. Isolation of an Enzyme Complex with Carbon Monoxide Dehydrogenase Activity Containing Corrinoid and Nickel from Acetate-Grown Methanosarcina thermophila. J. Bacteriol. 168:1053-1058.

Nelson, M.J.K., P.H. Pritchard and A.W. Bourquin. 1988 Preliminary Development of a Bench-Scale Treatment System for Aerobic Degradation of Trichloroethylene. Environmental Biotechnology. 203-209.

Nelson, M.J.K., S.O. Montgomery and P.H. Pritchard. 1988. Trichloroethylene Metabolism by Microorganisms that Degraded Aromatic Compounds Appl. Environ. Microbiol. 54:604-606.

DOUGLAS DERBES

Operations Supervisor

Mr. Derbes has over 17 years field experience supervising and managing the implementation of hazardous waste remediation technologies treating contaminated soil and groundwater on both RCRA and CERCLA sites. His experience includes the management and coordination of technicians, equipment operators, and laboratory personnel. He has supervised field crews involved in the installation and operation of groundwater treatment systems, liquid and slurry bioreactor systems, in situ bioremediation systems, air monitoring systems, and heavy equipment excavation operations and materials handling. Mr. Derbes will be responsible for coordinating technical and scientific input with site operation activities.

Certification and Training:

Health and Safety Training, Hazardous Waste Operations and Emergency Responses;
29 CFR 1910.210; 40 hour basic and 8 hours Supervisory Training

CPR and First Aid Certification

Corporate Experience:

1986 - Present: ECOVA Corporation, Field Supervisor
1979 - 1986: Hughes Drilling Fluids, Senior Technical Manager
Lafayette, LA
1976 - 1979: Delta-Chromalloy, Senior Fluids Technician
Houman, LA

Related Experience:

- Supervised the installation of a large groundwater remediation system utilizing activated carbon and air strippers in the Lafayette, Louisiana, area. The system included the installation of multiple extraction and injection wells. The project was one of the first of its kind in 1984 to remediate solvent-contaminated groundwater.
- Co-supervised a groundwater remediation utilizing activated carbon in Medford, Oregon, in 1989, involving TCA. Installed submersible pumps, supervised excavating of effluent line trenches, installed heated and insulated effluent piping system, and optimized process equipment for high throughput to achieve high process rates.
- Managed the installation of an in situ bioremediation system in New Iberia, Louisiana, in 1985, for the remediation of petroleum and hydrocarbon-contaminated soil. This system was one of the first

types of in situ systems installed. Supervised injection well installation and nutrient line construction. Only air and liquid fertilizer were utilized by injection. Supervised the sampling program for this system and coordinated efforts with the client's analytical laboratory.

- Operated and maintained an in situ bioremediation system at a large refinery in Los Angeles, California, in 1991. System was comprised of injection, extraction and nutrient addition components. Also involved in data acquisition from moisture data module. System was installed for the remediation of approximately 30,000 cubic yards of soil contaminated with petroleum hydrocarbons.
- Co-supervised the construction of a bermed and lined treatment complex in Portland, Oregon, in 1989, for the bioremediation of PCP. Directed the efforts of 4 field technicians in the construction and placement of slurry bioreactors, pumps and vibratory screens. Supervised the Health and Safety Plan during construction and materials handling phases of the project.
- Supervised the excavation of approximately 500,000 cubic yards of soil from a 20 acre bunker C crude oil storage reservoir for Unocal in Torrance, California, in 1989/1990. Directed 10 operating engineers (Unocal Local 12) utilizing scrapers, D9 dozers, track excavators, wheel loaders and other equipment. coordinated all movement of materials segregating clean from contaminated materials. Laid out and supervised the construction of 5 land treatment units covering 25 acres. Coordinated the placement of 300,000 cubic yards of petroleum hydrocarbon-contaminated soil into the LTUs. Supervised the bioremediation of soil in the LTUs and coordinated all sampling activities. Coordinated LTU operations with laboratory and sampling activities. Generated monthly reports for client and supervised all activities relating to the LTUs. Directed the efforts of 8 operating engineers utilizing Bomag recyclers, caterpillar recyclers, D6 dozers and 14G motorgraders. Supervised all excavation, sampling and LTU operations for this site.
- Directed the construction and soil washing component of a large slurry phase bioreactor for the remediation of PCP-contaminated soil at Time Oil in Portland, Oregon, in 1989. Supervised the excavation of soil and performed GC analysis on samples during excavation. Constructed large conveyor system to feed contaminated soil to wash tank for pH adjustment.
- Supervised the installation of a Vapor Extraction System in Houman, Louisiana, in 1985, for the removal of gasoline from 25,000 cubic yards of soil located beneath the terminal facility. The system utilized multiple extraction wells which fed the contaminated air stream into a large carbon adsorption system.
- Co-supervised the removal of 3 USTs for Boeing in Seattle, Washington, in 1989. Directed the excavation, inertion and removal of a 2,500 gallon gasoline tank and two 1,000 gallon gasoline tanks. Monitored tanks during inerting conditioning activities with onsite marine chemists. Directed sampling activities in excavation and controlled excavation by track excavation. Involved in Health and Safety program during duration of project. Directed backfill operations and site restoration. Involved in manifesting out removed of tanks. Directed the placement and movement of gasoline-contaminated soils for bioremediation.
- Installed perimeter air toxics monitoring system for Seattle Marketing Terminal site in 1989. Constructed and installed meteorological monitoring tower as well as four perimeter monitoring

modules. Installed real-time data acquisition station coupled to perimeter monitoring modules. Constructed buildings to house air toxics monitoring modules.

- Supervised the washing of approximately 5,000 cubic yards of heavily saturated petroleum hydrocarbon-contaminated soil in Houman, Louisiana, in 1985. System consisted of a large mixing tank within a protective shell and was part of a closed system utilizing methylene chloride as the washing solvent. Washing solvent was recycled by distillation and hydrocarbon contamination was drummed and manifested offsite.
- Co-supervised the operation and maintenance of a chemical neutralization of caustic ash in Tacoma, Washington, in 1988. Supervised the repair and maintenance of conveyor systems, trommel classifier, clarifier tank, acid neutralization tank, and belt filter press. Submitted reports to client and manifested treated fly ash offsite. Supervised field testing of treated ash and scheduled shift production quotas. Treated several thousand cubic yards over a 10 month period.

FIELD SAMPLING

Gas samples will be taken from the extraction well and area piezometers. The samples will be taken in 1 liter Tedlar bags and labelled as to sample location/sample port, date, time, and person performing the sampling. These samples will be returned to the laboratory trailer and logged for analysis. Analysis will be performed within three days of sampling. If analyses are not performed the same day, samples will be refrigerated until analyses are performed.

PRESSURE/VACUUM MONITORING

Daily collection of pressure and vacuum data will be obtained from piezometers and groundwater wells and downhole tubes in each of the horizontal wells. These data will be entered into the Field/Laboratory Notebook at the time of sampling and will also include date, time, person sampling, sample location/port. These data will be transferred to the electronic data base upon return to the laboratory trailer.

Pressure and vacuum data will be recorded from gauges installed on ECOVA equipment and installed by WSRC on site piezometers and wells. ECOVA gauges were calibrated at the factory and a record of the calibration will be included with ECOVA QA records. Records of calibration of the WSRC gauges will be obtained from WSRC and also included with ECOVA QA records.

ANALYTICAL METHODS

Detailed procedures for the analytical methods are provided in the attached Standard Operating Procedures. The general methodologies are summarized below.

Volatile Chlorinated Compounds

On-site analysis of volatile chlorinated compounds will be performed based on USEPA SW-846 methodologies. Analysis will utilize gas chromatography with flame ionization detection. A Voccol 30 m capillary column (or equivalent) will be utilized. Samples will be applied by direct injection of the gas samples or by thermal desorption of the adsorbed gas sample from Carbotrap 300 thermal desorption tubes (or equivalent). The latter

procedure will be utilized if needed for maximum sensitivity. Analyses will be performed for the specific compounds: trichloroethylene (TCE), tetrachloroethylene (PCE), cis-dichloroethylene (cDCE) and trans-dichloroethylene (tDCE), vinyl chloride, and methylene chloride. The limit of detection will be 5 ppmV for each compound.

Methane and Carbon Dioxide

Methane and carbon dioxide will be analyzed by gas chromatography with thermal conductivity detection. Gas samples will be directly injected onto a Carboxen 1000 packed column (or equivalent). The limit of detection for each compound will be 0.1%.

Quality Assurance Samples

Each sample set performed will include a Method Blank, a check standard, and sample duplicates. The Method Blank will be uncontaminated air. The check standard will be made the day of sampling and will be a standard dilution of the certified gas standards. Duplicate sampling and analyses will be performed randomly on one out of every 10 samples taken.

Procurement Controls

All calibration standards will be derived from certified standards or by direct dilution of raw chemicals of known purity. All information supporting the source and purity of chemicals used in the analyses will be recorded in the lab notebooks and kept in the central project files. All standards prepared during a series of analyses will be from the same lot of primary standards/chemicals. Whenever new lots of standards/chemicals are acquired, their concentration/purity will be verified by comparison to that of the previous lot before they are used for calibration purposes. Gaseous chemicals will be stored in their original gas cylinders, which will only be opened long enough for subsampling. Liquid chemicals will be stored in their original containers or appropriately labeled secondary containers and will be kept refrigerated in the dark.

Records Tracking

All field/lab records will be recorded in bound lab notebooks with sequentially numbered pages. A separate numbered lab notebook will be kept exclusively for this project. Each page will be signed and dated by the person(s) recording the data on the date the entry is made and will be reviewed and counter-signed as often as practicable.

Raw data (e.g., chromatograms) supporting lab notebook entries will be kept in order, in files reserved exclusively for this data and will be kept on-site for the duration of the project.

Electronic data storage (computer files) will be backed up daily and backup copies will be removed to off-site storage at least weekly.

Quality Assurance Review

All analytical (gas chromatograph) data will be reviewed prior to release of the data in final report format. Any data released prior to the release of the report (i.e., verbal report) will be identified as not having been reviewed. QA data reviews will be conducted by transfer of the data to ECOVA headquarters via telephone modem or, should this not be possible, by overnight mail. Provisions have been made for a separate field within the database that will record the QA process. This electronic audit trail will be supported by QA review forms which will be signed and dated by the data reviewer and returned to the project site for filing with the original raw data package.

STANDARD OPERATING PROCEDURE SSC-20A

Revision 2

Date Revised: February 13, 1992

Approved By: _____

Michael J. Nelson
Technical Program Manager

Date: _____

2/13/92

Prepared By: _____

Thomas P. Maziarz
Project Chemist

Date: _____

13 Feb 1992

TITLE: Air analysis for volatile chlorinated solvents by GC/FID

PURPOSE: This procedure outlines the activities involved in the analysis for:

- 1-) Cis-1,2-Dichloroethylene
- 2-) Trans-1,2-Dichloroethylene
- 3-) Trichloroethylene
- 4-) Methylene Chloride
- 5-) Tetrachloroethylene
- 6-) Vinyl Chloride

by gas chromatography/flame ionization detection. These procedures have been specifically modified for use on the WSRC In Situ Field Demonstration Project.

1.0 SAMPLE REQUIREMENTS

- 1.1 **Sampling:** Gas samples will be taken from sampling ports located at piezometers and the extraction well-head into prenumbered Tedlar Bags. Since samples never leave the custody of ECOVA on-site personnel, Chain of Custody and Request for Analysis forms are inappropriate. Field documentations of sampling will be provided by a Field/Laboratory Notebook. Samples will be logged into the Field/Laboratory Notebook at the time of sampling. Data entered will include Tedlar Bag number, date, time, person sampling, sample location and port. Samples and Notebook will be returned to the laboratory trailer at the end of sampling rounds. Data will be entered into the computer data base and the sample will be given a permanent sample number for analysis and tracking.
- 1.2 **Sample Storage:** Samples will typically be analyzed the day of sampling. If samples cannot be analyzed the same day, they will be placed at 0°C-4°C until analyzed. Sample holding time shall not exceed 4 days.

2.0 LABORATORY INSTRUMENTATION AND GLASSWARE

- 2.1 **General Requirements:** General laboratory and instrumentation requirements will follow the procedures described for the ECOVA TDC (see TDC-O, Sec. 4) and SSC (see SSC-O, Sec. 4).

3.0 MATERIALS & REAGENTS

- 3.1 1 liter Tedlar Bags
- 3.2 250 ml glass gas sample containers
- 3.3 40 ml precleaned VOA vials
- 3.4 Certified gas standard of nitrogen with 500 ppmV each of the following: PCE, TCE, tDCE, cDCE, methylene chloride, vinyl chloride

4.0 EQUIPMENT

- 4.1 Hewlett-Packard Model 5890 gas chromatograph equipped with a 30 m Vocol column, a flame ionization detector and Nelson Analytical data acquisition system.
- 4.2 Supelco Model Thermal Desorption Unit (for max sensitivity)
- 4.3 Supelco Carbotrap 300 Desorption Tubes (for max sensitivity)
- 4.4 Hamilton gastight syringes

5.0 ANALYTICAL PROCEDURES

- 5.1 Sample holding times shall not exceed 4 days. If samples are not analyzed the day of sampling, they shall be stored at 4°C in original Tedlar sampling bags.
- 5.2 A standard volume of 200 ul of undiluted gas sample will be analyzed by direct injection with a Hamilton gas-tight syringe. Up to 500 ul may be injected for maximum sensitivity.
- 5.3 If needed for maximum sensitivity a known volume of gas sample will be passed through Carbotrap 300 desorption tubes. The adsorbed chlorinated compounds will be desorbed onto the GC column using a Supelco Thermal Desorption unit. Present data indicates 5 ppmV sensitivity will be obtained with direct injection methods.

6.0 ANALYTICAL PROCEDURES/INSTRUMENT CONDITIONS

6.1 Instrument Conditions

Injector Temp: 150° C.
Detector Temp: 150° C.
Initial Oven Temp: 40° C.
Initial Time: 2.00 Min
Ramp: 15.0° C./Min
Final Temp: 90° C.
Final Time: 7.0 Min

6.2 Column

Supelco VOCOL, 30 m column length, 0.53 mm I.D, 3.0 um film thickness

6.3 Injection size: 200 ul normal; 500 ul maximum

7.0 CALIBRATION

- 7.1 The instrument is calibrated by a standard curve performed at least monthly or whenever a check standard calculated value exceeds $\pm 10\%$ of its true value. The standard curve will consist of four standards and a blank. The standard curve will be created in the report generator system of the GC software.
- 7.2 Calibration standards and check standards will be made from a single certified gas standard obtained commercially. Check standards will be prepared from the certified standards the day of the analysis. The certified gas standard shall be obtained through professional gas suppliers and shall have independent, documented analyses of the actual concentrations measured. Analytical certification shall be kept as part of the laboratory QA files.

- 7.3 The standards will be:

(Numbers in parentheses indicate the concentration of each of the analytes in the stock)

- 1-) 200 ul of primary stock (500 ppmV)
- 2-) 50 ul of primary stock in 200 ul total gas volume (250 ppmV)
- 3-) 25 ul of primary stock in 200 ul total gas volume (125 ppmV)
- 4-) 10 ul of primary stock in 200 ul total gas volume (50 ppmV)
- 5-) 5 ul of primary stock in 200 ul total gas volume (25 ppmV)

Initially, stocks 1 through 4 will be used for the calibration curve. If concentrations of the major analytes (anticipated to be PCE and TCE) in the field samples decrease below 100 ppmV, stocks 2 through 4 will be used. A 125ppmV check standard will be used with the former and a 50 ppmV check standard with the latter calibration curve.

- 7.4 A coefficient of determination (r^2) 0.98 or better will indicate an acceptable curve.
- 7.5 The Working Linear Range for this method shall be 25 ppmV to 500 ppmV for each analyte.
- 7.6 The Limit of Detection (LOD) for this method shall be 5 ppmV for each analyte.

8.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

- 8.1 General Requirements: General QA/QC requirements will follow the procedure described for the ECOVA SSC (see SSC-O, Sec. 5).
- 8.2 QA standards: In addition to check standards and standard curves (See Sect. 7, Calibration), each sample set will include 1 Method Blank and 10% duplicates of field samples.
- 8.3 Specific Requirements: Instrument maintenance and repair will occur as the need arises. During power-up, there is an automatic electronic instrument check of the system. When a new column is added to the system, a new calibration curve will be performed. Peak symmetry, sensitivity, and retention times will be assessed for overall system suitability.

9.0 QUANTITATION

- 9.1 Quantitation is performed using the Nelson Analytical software. All analytical values will be electronically downloaded into the working project data base. Once the data has been reviewed and approved by the Project Chemist or his designated alternate, it will be electronically transferred into the Finalized Project Data Base.

10.0 REPORTING

- 10.1 General Requirements: All reporting will follow the procedures described for the ECOVA SSC (see SSC-O, Sec. 6).
- 10.2 Specific Requirements: The Report Packet will not contain a Chain of Custody. QC Worksheet functions will be performed and maintained electronically. Hard-copy documentation will be part of the Report Packet.

11.0 METHOD REFERENCES

USEPA SW-846, Method 8010

STANDARD OPERATING PROCEDURE SSC-21A

Revision 1

Date Revised: February 13, 1992

Approved By: Michael J. Nelson Date: 2/13/92
Michael J. Nelson
Technical Program Manager

Prepared By: Thomas P. Maziarz Date: 13 Feb, 1992
Thomas P. Maziarz
Project Chemist

TITLE: Air analysis for methane and carbon dioxide by GC/TCD

PURPOSE: This procedure outlines the activities involved in the analysis for methane and carbon dioxide by gas chromatography with thermal conductivity detection. These procedures have been specifically modified for use on the WSRC In Situ Field Demonstration Project.

1.0 SAMPLE REQUIREMENTS

- 1.1 **Sampling:** Gas samples will be taken from sampling ports located at piezometers and the extraction well-head into prenumbered Tedlar Bags. Since samples never leave the custody of ECOVA on-site personnel, Chain of Custody and Request for Analysis forms are inappropriate. Field documentations of sampling will be provided by a Field/Laboratory Notebook. Samples will be logged into the Field/Laboratory Notebook at the time of sampling. Data entered will include Tedlar Bag number, date, time, person sampling, sample location and port. Samples and Notebook will be returned to the laboratory trailer at the end of sampling rounds. Data will be entered into the computer data base and the sample will be given a permanent sample number for analysis and tracking.
- 1.2 **Sample Storage:** Samples will typically be analyzed the day of sampling. If samples cannot be analyzed the same day, they will be placed at 0°C-4°C until analyzed. Sample holding time shall not exceed 4 days.

2.0 LABORATORY INSTRUMENTATION AND GLASSWARE

- 2.1 **General Requirements:** General laboratory and instrumentation requirements will follow the procedures described for the ECOVA TDC (see TDC-O, Sec. 4) and SSC (see SSC-O, Sec. 4).

3.0 MATERIALS & REAGENTS

- 3.1 1 liter Tedlar Bags
- 3.2 250 ml glass gas sample containers
- 3.3 40 ml precleaned VOA vials
- 3.4 Certified gas standards of methane and carbon dioxide. Each analyte will be at 5% V/V with the balance being helium. Alternatively, 100% certified standards of each analyte will be used and appropriate dilutions made for standard curves and check standards.

4.0 EQUIPMENT

- 4.1 Hewlett-Packard Model 5890 gas chromatograph equipped with a Supelco Carboxen Column, thermal conductivity detector and Nelson Analytical data acquisition system.
- 4.2 Hamilton gastight syringes

5.0 ANALYTICAL PROCEDURES

- 5.1 Sample holding times shall not exceed 4 days. If samples are not analyzed the day of sampling, they shall be stored at 4°C in original Tedlar sampling bags.
- 5.2 A standard volume of 200 ul of undiluted gas sample will be analyzed by direct injection with a Hamilton gas-tight syringe. Up to 500 ul may be injected for maximum sensitivity.

6.0 ANALYTICAL PROCEDURES/INSTRUMENT CONDITIONS

6.1 Instrument Conditions

Injector Temp: 180° C.
Detector Temp: 180° C.
Oven Temp Isothermal: 150° C.
Final Time: 5.0 Min

6.2 Column

Supelco Carboxen 1000 packed column, 10 ft. x 1/8" stainless steel

6.3 Injection size: 100 ul normal; 500 ul maximum

7.0 CALIBRATION

- 7.1 The instrument is calibrated by a standard curve performed at least monthly or whenever a check standard calculated value exceeds $\pm 10\%$ of its true value. The standard curve will consist of four standards and a blank. The standard curve will be created in the report generator system of the GC software.
- 7.2 Calibration standards and check standards will be made from Certified gas standards obtained commercially. Check standards will be prepared from the certified standard the day of the analysis. The Certified gas standards shall be obtained through professional gas suppliers and shall have independent, documented analyses of the actual concentrations measured. Analytical certification shall be kept as part of the laboratory QA files.
- 7.3 The standards will be:
(Numbers in parentheses indicate the concentration of each of the analytes in the stock)
 - 1-) 200 ul of primary stock (5.0% V/V)
 - 2-) 40 ul of primary stock in 200 ul total gas volume (2% V/V)
 - 3-) 20 ul of primary stock in 200 ul total gas volume (1.0% V/V)

- 4-) 10 ul of primary stock in 200 ul total gas volume (0.5% V/V)

A 1.0% V/V check standard will be used with each sample set not performed at the same time as a calibration curve. Concentrations of the standards for the curve may be adjusted later to more precisely bracket concentrations in field samples.

- 7.4 A coefficient of determination (r^2) 0.98 or better will indicate an acceptable curve.
- 7.5 The Working Linear Range for this method shall be 0.5% V/V to 5.0% V/V for each analyte.
- 7.6 The Limit of Detection (LOD) for this method shall be 0.1% for each analyte.

8.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

- 8.1 General Requirements: General QA/QC requirements will follow the procedure described for the ECOVA SSC (see SSC-O, Sec. 5).
- 8.2 QA standards: In addition to check standards and standard curves (See Sect. 7, Calibration), each sample set will include 1 Method Blank and 10% duplicates of field samples.
- 8.3 Specific Requirements: Instrument maintenance and repair will occur as the need arises. During power-up, there is an automatic electronic instrument check of the system. When a new column is added to the system, a new calibration curve will be performed. Peak symmetry, sensitivity, and retention times will be assessed for overall system suitability.

9.0 QUANTITATION

- 9.1 Quantitation is performed using the Nelson Analytical software. All analytical values will be electronically downloaded into the working project data base. Once the data has been reviewed and approved by the Project Chemist or his designated alternate, it will be electronically transferred into the Finalized Project Data Base.

10.0 REPORTING

- 10.1 General Requirements: All reporting will follow the general procedures described for the ECOVA SSC (see SSC-O, Sec. 6).
- 10.2 Specific Requirements: The Report Packet will not contain a Chain of Custody. QC Worksheet functions will be performed and maintained electronically. Hard-copy documentation will be part of the Report Packet.

11.0 METHOD REFERENCES

Standard Methods for the Examination of Water and Wastewater, Thirteenth Edition, American Public Health Association, Washington, DC. Method 225B.

STANDARD OPERATING PROCEDURE SSC-0

Revision 2

Date Revised: January 13, 1992

Approved

William R. Mahaffey
William R. Mahaffey, Ph.D.

Date:

2/12/92

Prepared

Alan B. Jones
Alan B. Jones, Ph.D.

Date:

2/13/92

TITLE: Quality Control Procedures in the ECOVA Site Support Chemistry Laboratory

PURPOSE: This procedure sets forth the protocol to be used for assuring a minimum acceptable quality control for the analytical methods used in the ECOVA Site Support Chemistry (SSC) Laboratory. The procedures listed are to provide authenticity for the acquisition and reporting of analytical data.

1.0 SUBMITTING SAMPLES

Samples shall be submitted to SSC according to the procedures described for the ECOVA Technology Development Center (see TDC-O, Sec. 1).

2.0 RECEIVING SAMPLES

Samples shall be received by the SSC according to the procedures described for the ECOVA Technology Development Center (see TDC-O, Sec. 2).

3.0 SAMPLE STORAGE

Samples shall be stored by the SSC according to the procedures described for the ECOVA Technology Development Center (see TDC-O, Sec. 3).

4.0 LABORATORY INSTRUMENTATION AND GLASSWARE

All procedures described for the ECOVA TDC shall apply to the SSC (see TDC-O, Sec. 4).

5.0 LEVELS OF ANALYTICAL QUALITY CONTROL

- 5.1 Level 0: This level shall be used for screening. Only the samples themselves will be analyzed without any controls or standards. The standard curve used to quantify the results shall be one either in the instrument software from a prior analysis or a hard-copy standard curve in the possession of the technician performing the analysis. A Sample Group Worksheet (see Appendix 1) will be filled out for Level 0 analyses, but no quality control documentation will be provided. It shall be the responsibility of the project manager to assess the value of the results.

- 5.2 Level I: This level will be the default value for quality control as performed by the ECOVA TDC. If the level of quality control is not specified by the person submitting the sample, the sample group will automatically receive Level I QC. Level I QC will consist of the following:
- 5.2.1 A standard curve or a check standard will be performed with every sample group. If a standard curve is performed, the instrument will be calibrated using those values. If a check standard is used to ensure the fitness of the stored calibration curve, the value of the check standard must fall within a coefficient of determination (r^2) of > 0.98 .
 - 5.2.2 A Method Blank (MB) will consist of the reagents used for the sample extraction, without any matrix. This will be extracted and run with the sample group. Its value on the standard curve will serve as an indication of less than the Limit of Detection (LOD), determined separately for each analysis. The MB will be the negative control.
 - 5.2.3 A Method Blank Spike (MBS) will consist of a known amount of the sample analyte injected into the extraction reagents, without any matrix. The MBS will be extracted and run with the sample group. The criterion for accepting the recovery of the MBS will be set for each separate analysis. The MBS will be the positive control.
 - 5.2.4 For each ten samples in the sample group, one sample will be analyzed in duplicate. The relative percent difference (RPD) will be calculated on the Quality Control Worksheet for each duplicate pair (see Appendix 2).
 - 5.2.5 If the standard curve, the MB and the MBS all meet the criteria set within the Standard Operating Procedure requirements for a given analysis method, the run will be considered valid.
 - 5.2.6 The Report Packet for Level I QC will include: Case Narrative, Chain of Custody/-Request for Analysis, Sample Group Worksheet, Data Summary, Quality Control Worksheet, and the raw data (see also Section 6.0).
- 5.3 Level II: This level will consist of all the requirements of Level I QC and include a Matrix Spike/Matrix Spike Duplicate (MS/MSD) utilizing a sample submitted as the spike matrix.
- 5.3.1 The Matrix Spike (MS) will consist of a duplicate of one of the samples in the sample group injected with a known amount of the sample group analyte. It will be extracted and analyzed with the sample group, then reported on the Quality Control Worksheet (see Appendix 2) and the Spike Results Quality Control Worksheet (see Appendix 3).
 - 5.3.2 The Matrix Spike Duplicate (MSD) will consist of an exact duplicate of the Matrix Spike. It will be extracted and analyzed with the sample group, then reported on the Spike Results Quality Control Worksheet and the Quality Control Worksheet.
 - 5.3.3 Precision and minimum acceptable recovery requirements will be established by recording the values of relative percent difference (RPD) of thirty samples. Using these as a statistical universe, the acceptable range for relative percent difference

will be generated by defining two standard deviations from the mean of the thirty sample universe. RPD will be calculated for each sample group duplicate using the following formula:

$$\frac{(X_1 - X_2)}{(X_1 + X_2)/2} \times 100 = \text{RPD}$$

Where X_1 and X_2 are the amounts of analyte found in the MS and MSD.

- 5.3.4 Once the acceptable range for RPD has been established, if the RPD for a sample group does not meet the acceptability criteria, the sample group must be repeated. If the RPD still does not meet these requirements for the second extraction set, the values for the samples will be reported and an explanation added to the case narrative.

6.0 REPORTING ANALYTICAL RESULTS

- 6.1 All raw data will be returned to the project manager upon completion of the analysis. All returned data will be the responsibility of the project manager.
- 6.2 The Report Packet returned to the project manager will consist of the following:
- 6.2.1 The Case Narrative for the sample group will document any variation in the receipt, the extraction, or the analysis of the samples. The case narrative will provide the project manager/client as much qualitative or interpretive information as possible about the results.
 - 6.2.2 Chain of Custody/Request For Analysis.
 - 6.2.3 The Sample Group Worksheet must be completed to provide the project manager/client a trail of the procedures used to generate the data. The worksheet must be completely filled out and reviewed by another technician before the data package is released. For a complete description of the requirements for the completion of the Sample Group Worksheet, see Appendix 1.
 - 6.2.4 The QC worksheet will be used to ensure that all appropriate QC functions have been performed for a specific sample group. The QC review sheet will be initialed by a technician reviewing the quality control to verify that the QC requirements have been met. The reviewing technician must not be the technician who performed the analysis. For a complete description of these requirements see Appendix 3.
 - 6.2.5 The test results might be included in the case narrative or be listed at this point in the data packet. It shall be a summary of the analyzed data.
 - 6.2.6 The raw data.
- 6.3 A photocopy of the Report Packet (except for the raw data) shall be made, signed off by the project manager, and placed in a file for the laboratory's records.

APPENDIX 1

SAMPLE GROUP WORKSHEET

Introduction: This appendix illustrates the proper procedure for filling out a Sample Group Worksheet (copy follows). It should be completed following receipt of a sample group that is to be analyzed in-house, signing off on a CoC/RfA, and logging in the sample group to the SSC Sample Log Book. Begin filling out the worksheet prior to beginning the analysis, but continue to fill out the worksheet as the sample preparation and analysis of the sample group continues. It should be paper-clipped to the lab copy of the CoC/RfA until it is included in the Report Packet to the project manager.

1. Filling out the header

- a. Fill out the space for the Sample Group number based upon the numbering of the SSC Sample Log Book. The Sample Group number will be the Number of the Log Book-Page Number.
- b. Fill in the date, your name, and the project number in the spaces provided.

2. Filling out the Worksheet, front page

- a. Enter the SSC sample number for each sample on a separate line of the worksheet. The SSC sample number will be the Sample Group number-order of the sample on the CoC/RfA. E.g., if the sample group was logged into SSC Sample Log Book No. 243 on page 114 and the sample being entered onto the worksheet was the first one entered on the CoC/RfA, the SSC sample number for that sample is 243-114-1.
- b. Fill out the remaining columns of the worksheet exactly as they are performed in the analysis.
- c. The column labeled "Analytical Value" represents the raw report value from the instrument itself, without any correction for dilutions or concentrations performed during the sample preparation.
- d. The column labeled "Report Value" represents the Analytical Value corrected for sample preparation manipulations. It is determined using the equation at the bottom of the worksheet in the box labeled "Calculation Formula." The Report Value is the value that should be reported to the client and/or the project manager.

3. Filling out the Worksheet, back page

- a. If the sample is aqueous, cross out all rows and columns and label the back page "Not Used - Aqueous Sample."
- b. To determine the Dry Weight of the sample, weigh and record the information requested in the column headers. A 10 g. portion of the sample, in a metal boat, should be dried for

1 to 2 hours at 110° C. in the drying oven designated for this purpose. It should not be dried overnight, particularly if the analytes of interest are volatile or semi-volatile.

- c. The Dry Weight is the weight fraction of the total sample less the moisture evaporated in the oven. It is calculated in the last column of the back page and should be entered onto the front page of the worksheet under the heading "Solids" (Column F).

STANDARD OPERATING PROCEDURE TDC-O

Revision 2

Date Revised: 4/4/91

Approved By: William R. Mahaffey Date: 1-9-91
William R. Mahaffey, Ph.D.

Reviewed By: Alan B. Jones Date: 4-4-91
Alan B. Jones, Ph.D.

Prepared By: Michael J. K. Nelson Date: 4/4/91
Michael J. K. Nelson, Ph.D.

TITLE: Quality Control Procedures in the ECOVA Technology Development Center

PURPOSE: This procedure sets forth the protocol to be used for assuring a minimum acceptable quality control for the methods used in the ECOVA Technology Development Center (TDC), comprising the Site Support Chemistry (SSC) and the ECOVA Microbiology Services (EMS) laboratories. The procedures listed are to provide authenticity for the acquisition and reporting of analytical data.

1.0 SUBMITTING SAMPLES

- 1.1 To submit samples, each sample taken by field or laboratory personnel must be labelled with either the field or laboratory identification system. This number will be defined as follows:
 - 1.1.1 Field projects: samples sent to the ECOVA TDC laboratories will be labelled with the project number followed by the sample identifier for the individual sample. The individual sample identifier should be kept as simple as possible to help prevent mislabelling in the laboratory.
 - 1.1.2 Laboratory projects: samples will be submitted under the Ecova Microbiology Services (EMS) numbering system if they are to be analyzed by an outside laboratory and under the Site Support Chemistry Laboratory numbering system if they are to be analyzed in-house. The EMS log book is kept in the Research Associate Office and the SSC log book is kept in the Site Support Chemistry laboratory.
- 1.2 Each sample must also be labelled with the initials of the person taking the sample and the date that the sample was taken.
- 1.3 In addition to labelling, a properly completed Chain of Custody/Request for Analysis form(s) must accompany the sample (see Appendix 1).

- 1.4 Samples received for treatability studies will be logged into the Hazardous Waste Tracking System (HWITS) logbook and assigned an EC number regardless of whether or not they have been logged into either the EMS or SSC notebook. A dated "Hazardous Waste" identification sticker must be placed on each sample container and sample information must be entered into the HWITS computer data file.

2.0 RECEIVING SAMPLES

- 2.1 Following the initial receipt of samples, the receiving laboratory person will review and sign off the Chain of Custody/Request for Analysis form (Appendix 1). If there are discrepancies in the Chain of Custody/Request for Analysis the laboratory person should circle the discrepancy and, depending upon the severity of the discrepancy, consult the project manager for clarification.
- 2.2 Once the Chain of Custody/Request for Analysis form has been completed the laboratory person will log the samples into the appropriate sample log-in book (EMS or SSC, See 1.1).

3.0 SAMPLE STORAGE

- 3.1 Samples are stored at 4°C. until analysis unless otherwise noted on the Chain of Custody/Request For Analysis.
- 3.2 ECOVA will adhere to the EPA/CLP sample/analysis holding times unless otherwise indicated by the project manager.
- 3.3 After analysis, until the results have been accepted by the project manager all samples are to be stored at 4°C. Once the results have been accepted they will continue to be stored at 4°C. for 5 working days. At this time the samples will be returned to the project manager and (s)he will have the responsibility of returning the samples to the site.
- 3.4 Samples will not be stored beyond 180 days at ECOVA.

4.0 LABORATORY INSTRUMENTATION AND GLASSWARE

- 4.1 Glassware, once used, will be rinsed out with tap water and put into the used glassware plastic buckets in each laboratory. No glassware still containing solvents or hazardous waste will be placed in the buckets. These buckets will be carried to the glassware washing room where all cleaning will be conducted.
- 4.2 Washing will consist of:
- 4.2.1 An initial rinse with deionized water.
 - 4.2.2 Thorough washing with an approved detergent (Alconox or equivalent).
 - 4.2.3 Two thorough rinses with tap water.
 - 4.2.4 Two thorough rinses with deionized water.
- 4.3 The cleaned, dried glassware will be returned to clean storage cabinets in each laboratory.

- 4.4 All balances must be calibrated weekly. The balances will be calibrated using the NBS trial weights available in the microbiology lab.
- 4.5 The following general laboratory equipment will be checked as indicated:
- 4.5.1 Steam Tables (temperature daily when used)
 - 4.5.2 Nitrogen evaporators (temperature daily when used)
 - 4.5.3 Refrigerators (temperature weekly)
 - 4.5.4 Freezers (temperature weekly)
 - 4.5.5 Hood Draws (flow checks performed biannually)
 - 4.5.6 Gas Cylinders (pressures and setting checked weekly)
 - 4.5.7 Safety Equipment (eye washes checked monthly)
 - 4.5.8 Calibrated Syringes (volumes checked upon receipt)
 - 4.5.9 Volumetric glassware (volumes checked upon receipt)
 - 4.5.10 Autoclave (temperature and pressure recorded for each run)
 - 4.5.11 Deionized Water System (system checked and effluent resistance value logged daily)
 - 4.5.12 pH Meters (calibrated against a standard Ph 7.0 solution at each use)
 - 4.5.13 Constant Temperature Incubation Room (temperature and humidity checked daily)
 - 4.5.14 Shaker/Incubators (temperature checked daily when in use)

APPENDIX 1

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Introduction: This appendix illustrates the procedures necessary to complete the Chain of Custody/Request for Analysis (CoC/RfA) that should accompany each and every sample set arriving in the ECOVA Technology Development Center Laboratories. Attached is a copy of an ECOVA CoC/RfA.

- 1) **If you are receiving samples, confirm the accuracy of the portion already completed.**
 - a. Read over the CoC/RfA and confirm that the information supplied is correct. Each sample should be entered on the form on a separate line. All information about the sampling date, the type of analysis to be performed, and any hazards pertaining to the samples should be filled out. The CoC/RfA should be signed, dated and the time completed indicating when the samples and CoC/RfA left the sender's hands.
 - b. If there are any inaccuracies in the CoC/RfA, do not sign the CoC/RfA, but rather report it immediately to the project manager. Should he/she approve the completion of the analysis, note the discrepancy in the Case Narrative portion of the report.
 - c. If there are no discrepancies in the CoC/RfA, sign, date, and indicate the time on the CoC/RfA prior to logging in the sample group and performing any analyses.
 - d. At the discretion of the Project Manager, remove the second (usually yellow) copy and mail it back to the client with a cover letter. The cover letter should acknowledge the receipt of the samples and notify the client of a turn-around time and person-to-contact in case of questions about the analysis. Also, if any discrepancies were noted on the CoC/RfA, note these as well in the cover letter.
- 2) **If you are sending samples, fill out a CoC/RfA.**
 - a. CoC/RfA forms will differ in the structure and sometimes in the type and amount of information required. Listed here is the information to complete the ECOVA CoC/RfA.
 - b. Complete the lines in the upper left for Project Name, Project Number, Project Manager, Bill To (ECOVA, our address), and add a Purchase Order No. from Purchasing. Fill in the lines in the upper right for Date Samples Shipped, the Lab Destination (the lab that will be performing the analyses), the Laboratory Contact (person to contact at the analytical lab, if known), and Send Lab Report To (usually the ECOVA Project Manager). For Date Report Required, usually 30 days is acceptable unless you are requesting a rush. Project Contact is either yourself or the Project Manager, and the ECOVA's phone number.
 - c. Each sample shall be entered on a separate line on the form. Sample Type should indicate *soil, water, gas, or slurry*. Sample Volume and any preservative, if used, are self-explanatory. The test requested may be either an EPA method number or the name of a suspected analyte. For analysis by the SSC, indicate the type of analysis by name (e.g., TPH/GC). If in doubt, check with SSC personnel or the project manager for the acceptable terminology. Special Instructions should mention any suspected high

concentrations, special storage instructions, or special analytical instructions to be noted that may assist the laboratory based upon your prior knowledge.

- d. Fill out all information under Possible Hazard Identification and Turnaround Time Required as indicated.
- e. Enclose the CoC/RfA in a zip-lock plastic bag and include it in the container with the samples to be submitted to the analytical laboratory. Position the CoC/RfA in the container in such a manner as to minimize the chance of it becoming wet from enclosed ice, condensation, or a broken sample container. Taping the bag containing the CoC/RfA to the inside of the container lid is a typical procedure.

SECTION 7
DATA AVERAGED OVER CAMPAIGN INTERVALS

The following table (OPSCAMPS.XLS) summarizes the various operating campaigns that were used during the course of the project.

INJECTION SYSTEM OPERATION CAMPAIGNS

OPSCAMPS.XLS

DATES	MATERIAL INJECTED	INJECTION PERIOD	INJECTION SCHEDULE
2/25/92 3/18/92	NONE, EXTRACTION ONLY		
3/18/92 4/20/92	AIR	24 HRS/DAY	7 DAYS/WEEK
4/20/92 8/5/92	AIR, METHANE 1%	24 HRS/DAY	7 DAYS/WEEK
8/5/92 10/20/92	AIR, METHANE 4%	24 HRS/DAY	7 DAYS/WEEK
9/24/92 11/24/92	HELIUM TRACER 20 SCFH	24 HRS/DAY	7 DAYS/WEEK
10/20/92 10/23/92	AIR, METHANE 3%	24 HRS/DAY	7 DAYS/WEEK
10/23/92 11/6/92	AIR	24 HRS/DAY	7 DAYS/WEEK
11/6/92 10/92	AIR, METHANE 2% VOLUME	24 HRS/DAY	7 DAYS/WEEK
11/10/92 12/7/92	AIR	24 HRS/DAY	7 DAYS/WEEK
12/7/92 2/22/93	AIR, METHANE 4%	PULSED, 8 HRS/DAY	Mon, Wed, Fri
1/27/93 4/30/93	TEP INJECTION 1.25 ML/MIN	24 HRS/DAY	7 DAYS/WEEK
1/27/93 3/24/93	NITROUS OXIDE 0.2% VOLUME	24 HRS/DAY	7 DAYS/WEEK
3/24/93 4/30/93	NITROUS OXIDE 0.4%	24 HRS/DAY	7 DAYS/WEEK
2/22/93 3/20/93	AIR, METHANE 4%	8 HRS/DAY	EVERY OTHER DAY
3/20/93 4/30/93	AIR, METHANE 4%	12 HRS/DAY	EVERY OTHER DAY

SECTION 8

OXIDIZER EFFICIENCY

Enclosed in this section are tables of data which describe the efficiency of the Catalytic Oxidizer with the Allied Signal catalyst material.

SUMMARY OF CATALYTIC OXIDIZER PERFORMANCE													TABLE 1		
CONCENTRATIONS LESS THAN 5 PPM ARE BELOW DETECTION LEVELS															
DATE	SAMPLE #	INFLUENT			EFFLUENT			TEMP. (DEG. F)	% CONVERSION						
		TCE (PPM)	PCE (PPM)	VOC (PPM)	TCE (PPM)	PCE (PPM)	VOC (PPM)		TCE	PCE	VOC				
1/25/93		69.9	171.8	242.5	4.4	122.9	128.6	700	94%	28%	47%				
1/25/93		69.9	171.8	242.5	0	105.3	107	750	100%	39%	56%				
1/25/93		69.9	171.8	242.5	0	52	54.1	800	100%	70%	78%				
1/25/93		69.9	171.8	242.5	0	25.52	31	825	100%	85%	87%				
1/25/93		69.9	171.8	242.5	0	11.2	19.3	825	100%	93%	92%				
1/26/93	3867	72	177.5	250	0	2.2	16	840	100%	99%	94%				
1/27/93	3871	73	179	252	0	0	15	840	100%	100%	94%				
1/27/93	3874	73	179	252	0	5.6	16.9	830	100%	97%	93%				
1/28/93	3876	75	188	264	0	2.7	14	830	100%	99%	95%				
1/28/93	3909	75	188	264	0	0.3	16.7	850	100%	100%	94%				
1/29/93	3912	76.5	173.5	250	0	0.4	18	850	100%	100%	93%				
1/31/93	3928	71	179	250	0	4.6	14	820	100%	97%	94%				
2/1/93	3930	71	193	264	0	7	7	820	100%	96%	97%				
2/2/93	3937	70	186	256	0	0	0	875	100%	100%	100%				
2/2/93	3945	76	202	278	0	0	0	900	100%	100%	100%				
2/3/93	3948	72	202	262	0	0	0	910	100%	100%	100%				
2/3/93	3953	84	220	304	0	0	0	910	100%	100%	100%				
2/4/93	3956	76.5	205.5	282	0	0	0	910	100%	100%	100%				
2/4/93	3958	81	223	304	0	0	0	920	100%	100%	100%				
2/5/93	3963	71	185	256	0	3.1	3.1	830	100%	98%	99%				
2/5/93	3971	68	188	247	0	6.7	6.7	825	100%	96%	97%				
2/7/93	3976	68	179	247	0	5	5	825	100%	97%	98%				
2/8/93	3982	73	184.5	257.5	0	2.8	2.8	825	100%	98%	99%				
2/9/93	3988	75	185	260	0	7	7	820	100%	96%	97%				
2/10/93	3995	74	201	275	0	9	9	820	100%	96%	97%				
2/11/93	3998	46	129.5	175.5	0	6	6	820	100%	95%	97%				
2/12/93	4032	72	195	267	0	9.6	9.6	820	100%	95%	96%				
2/13/93	4053	71	196	267	0	9	9	820	100%	95%	97%				
2/14/93	4057	76	206	282	0	9	9	820	100%	96%	97%				

AICHE...XLS

2/15/93	4062	75	208	284	0	7	7	820	100%	97%	98%
2/16/93	4069	75	207	281	0	9	9	820	100%	96%	97%
2/17/93	4075	76	210	286	0	10	10	820	100%	95%	97%
2/18/93	4082	80	226	306	0	11	11	820	100%	95%	96%
2/19/93	4090	78	208	286	0	11	11	820	100%	95%	96%
2/24/93	4098	78	215	293	0	10	10	820	100%	95%	97%
2/25/93	4101	79	221	300	0	10	10	820	100%	95%	97%
2/26/93	4140	75	205	281	0	10	10	820	100%	95%	96%
2/27/93	4147	74	193	267	0	7	7	820	100%	96%	97%
2/28/93	4149	75	208	283	0	6	6	825	100%	97%	98%
3/1/93	4159	73	204	277	0	8	8	825	100%	96%	97%
3/2/93	4162	72	199	271	0	6	6	825	100%	97%	98%
3/3/93	4190	73	206	279	0	5	5	825	100%	98%	98%
3/4/93	4201	73	199	273	0	11	11	825	100%	94%	96%
3/5/93	4238	76	211	287	0	11	11	825	100%	95%	96%
3/6/93	4269	71	185	256	0	9	9	825	100%	95%	96%
3/7/93	4276	78	215	293	0	7	7	825	100%	97%	98%
3/8/93	4282	77	216	293	0	8	8	825	100%	96%	97%
3/9/93	4285	78	217	295	0	7	7	825	100%	97%	98%
3/10/93	4294	69	193	262	0	6	6	825	100%	97%	98%
3/11/93	4301	70	198	268	0	9	9	825	100%	95%	97%
3/12/93	4337	74	205	279	0	7	7	825	100%	97%	97%
3/13/93	4359	69	200	269	0	0	0	825	100%	100%	100%
3/14/93	4361	70	174	244	0	10	10	825	100%	94%	96%
3/15/93	4367	72	194	266	0	7	7	825	100%	96%	97%
3/16/93	4371	74	203	278	0	8	8	825	100%	96%	97%
3/17/93	4378	67	179	246	0	0	0	825	100%	100%	100%
3/18/93	4389	72	192	265	0	0	0	825	100%	100%	100%
3/19/93	4426	69	177	246	0	0	0	825	100%	100%	100%
3/20/93	4448	63	175	239	0	0	0	825	100%	100%	100%
3/21/93	4451	58	155	213	0	0	0	825	100%	100%	100%
3/22/93	4457	59	163	223	0	0	0	825	100%	100%	100%
3/23/93	4464	62	173	235	0	0	0	825	100%	100%	100%
3/24/93	4472	59	172	231	0	0	0	825	100%	100%	100%
3/25/93	4487	67	184	251	0	0	0	825	100%	100%	100%
3/26/93	4529	53	164	217	0	0	0	825	100%	100%	100%
3/27/93	4551	62	170	232	0	0	0	825	100%	100%	100%
3/28/93	4567	63	189	252	0	0	0	825	100%	100%	100%
3/29/93	4577	60	156	217	0	0	0	825	100%	100%	100%
3/30/93	4584	73	204	277	0	0	0	825	100%	100%	100%
3/31/93	4619	68	191	259	0	0	0	825	100%	100%	100%

AICHE_1.XLS

4/1/93		4629	71	181	252	0	0	0	825	100%	100%	100%
4/2/93		4667	71	182	253	0	0	0	825	100%	100%	100%
4/3/93		4683	75	199	274	0	0	0	825	100%	100%	100%
4/4/93		4689	76	209	285	0	6	6	825	100%	97%	98%
4/5/93		4694	66	177	243	0	0	0	825	100%	100%	100%
4/6/93		4706	70	196	266	0	6	6	825	100%	97%	98%
4/7/93		4709	70	191	261	0	0	0	825	100%	100%	100%
4/8/93		4717	70	192	262	0	0	0	825	100%	100%	100%
4/9/93		4758	66	176	242	0	0	0	825	100%	100%	100%
4/10/93		4764	71	196	267	0	0	0	825	100%	100%	100%
4/11/93		4766	68	170	238	0	0	0	825	100%	100%	100%
4/12/93		4777	68	195	262	0	0	0	825	100%	100%	100%
4/13/93		4781	67	187	254	0	0	0	825	100%	100%	100%
4/14/93		4788	69	187	256	0	0	0	825	100%	100%	100%
4/15/93		4816	68	179	247	0	0	0	825	100%	100%	100%
4/16/93		4854	72	173	246	0	6	6	825	100%	97%	98%
4/17/93		4886	68	187	255	0	0	0	825	100%	100%	100%
4/18/93		4889	68	187	255	0	0	0	825	100%	100%	100%
4/19/93		4894	63	168	232	0	0	0	825	100%	100%	100%
4/20/93		4906	70	198	269	0	0	0	825	100%	100%	100%
4/21/93		4910	67	187	254	0	0	0	825	100%	100%	100%
4/22/93		4918	73	202	275	0	0	0	825	100%	100%	100%
4/24/93		4938	43	110	153	0	0	0	825	100%	100%	100%
25/93 7:38		4943	58	168	226	0	0	0	825	100%	100%	100%
4/26/93		4950	48	119	168	0	0	0	825	100%	100%	100%
4/27/93		4958	69	223	291	0	0	0	825	100%	100%	100%
4/28/93		4968	67	232	300	0	4	4	825	100%	98%	99%
4/29/93		4975	64	187	251	0	6	6	825	100%	97%	98%
4/30/93		5037	52	142	194	0	6	6	825	100%	96%	97%

SECTION 7, TABLE 2				
DATE	TEMP.	% CONVERSION		
	(DEG. F)	TCE	PCE	VOC
1/25/93	700	94%	28%	47%
1/25/93	750	100%	39%	56%
1/25/93	800	100%	70%	78%
2/9/83	820	100%	97%	94%
1/31/93	820	100%	96%	97%
2/1/93	820	100%	96%	97%
2/10/93	820	100%	96%	97%
2/11/93	820	100%	95%	97%
2/12/93	820	100%	95%	96%
2/13/93	820	100%	95%	97%
2/14/93	820	100%	96%	97%
2/15/93	820	100%	97%	98%
2/16/93	820	100%	96%	97%
2/17/93	820	100%	95%	97%
2/18/93	820	100%	95%	96%
2/19/93	820	100%	95%	96%
2/24/93	820	100%	95%	97%
2/25/93	820	100%	95%	97%
2/26/93	820	100%	95%	96%
2/27/93	820	100%	96%	97%
1/25/93	825	100%	85%	87%
1/25/93	825	100%	93%	92%
2/5/93	825	100%	96%	97%
2/7/93	825	100%	97%	98%
2/8/93	825	100%	98%	99%
2/28/93	825	100%	97%	98%
3/1/93	825	100%	96%	97%
3/2/93	825	100%	97%	98%
3/3/93	825	100%	98%	98%

3/4/93	825	100%	94%	96%				
3/5/93	825	100%	95%	96%				
3/6/93	825	100%	95%	96%				
3/7/93	825	100%	97%	98%				
3/8/93	825	100%	96%	97%				
3/9/93	825	100%	97%	98%				
3/10/93	825	100%	97%	98%				
3/11/93	825	100%	95%	97%				
3/12/93	825	100%	97%	97%				
3/13/93	825	100%	100%	100%				
3/14/93	825	100%	94%	96%				
3/15/93	825	100%	96%	97%				
3/16/93	825	100%	96%	97%				
3/17/93	825	100%	100%	100%				
3/18/93	825	100%	100%	100%				
3/19/93	825	100%	100%	100%				
3/20/93	825	100%	100%	100%				
3/21/93	825	100%	100%	100%				
3/22/93	825	100%	100%	100%				
3/23/93	825	100%	100%	100%				
3/24/93	825	100%	100%	100%				
3/25/93	825	100%	100%	100%				
3/26/93	825	100%	100%	100%				
3/27/93	825	100%	100%	100%				
3/28/93	825	100%	100%	100%				
3/29/93	825	100%	100%	100%				
3/30/93	825	100%	100%	100%				
3/31/93	825	100%	100%	100%				
4/1/93	825	100%	100%	100%				
4/2/93	825	100%	100%	100%				
4/3/93	825	100%	100%	100%				
4/4/93	825	100%	97%	98%				
4/5/93	825	100%	100%	100%				
4/6/93	825	100%	97%	98%				
4/7/93	825	100%	100%	100%				
4/8/93	825	100%	100%	100%				
4/9/93	825	100%	100%	100%				
4/10/93	825	100%	100%	100%				
4/11/93	825	100%	100%	100%				
4/12/93	825	100%	100%	100%				
4/13/93	825	100%	100%	100%				

4/14/93	825	100%	100%	100%				
4/15/93	825	100%	100%	100%				
4/16/93	825	100%	97%	98%				
4/17/93	825	100%	100%	100%				
4/18/93	825	100%	100%	100%				
4/19/93	825	100%	100%	100%				
4/20/93	825	100%	100%	100%				
4/21/93	825	100%	100%	100%				
4/22/93	825	100%	100%	100%				
4/24/93	825	100%	100%	100%				
4/25/93	825	100%	100%	100%				
4/26/93	825	100%	100%	100%				
4/27/93	825	100%	100%	100%				
4/28/93	825	100%	98%	99%				
4/29/93	825	100%	97%	98%				
4/30/93	825	100%	96%	97%				
1/27/93	830	100%	97%	93%				
1/28/93	830	100%	99%	95%				
2/5/93	830	100%	98%	99%				
1/26/93	840	100%	99%	94%				
1/27/93	840	100%	100%	94%				
1/28/93	850	100%	100%	94%				
1/29/93	850	100%	100%	93%				
2/2/93	875	100%	100%	100%				
2/2/93	900	100%	100%	100%				
2/3/93	910	100%	100%	100%				
2/3/93	910	100%	100%	100%				
2/4/93	910	100%	100%	100%				
2/4/93	920	100%	100%	100%				

CATOX CONVERSION EFFICIENCY

FILE NAME:

COEFFIC.XLS

TABLE 3

DATE

DATE	VOC	PCE
1/0/00	0.00	0.00
1/0/00	0.00	0.00
1/25/93	0.47	0.28
1/25/93	0.56	0.39
1/25/93	0.78	0.70
1/25/93	0.87	0.85
1/25/93	0.92	0.93
1/26/93	0.94	0.99
1/27/93	0.94	1.00
1/27/93	0.93	0.97
1/28/93	0.95	0.99
1/28/93	0.94	1.00
1/29/93	0.93	1.00
1/31/93	0.94	0.97
2/1/93	0.97	0.96
2/2/93	1.00	1.00
2/2/93	1.00	1.00
2/3/93	1.00	1.00
2/3/93	1.00	1.00
2/4/93	1.00	1.00
2/4/93	1.00	1.00
2/5/93	0.99	0.98
2/5/93	0.97	0.96
2/7/93	0.98	0.97
2/8/93	0.99	0.98
2/9/93	0.97	0.96
2/10/93	0.97	0.96
2/11/93	0.97	0.95
2/12/93	0.96	0.95
2/13/93	0.97	0.95
2/14/93	0.97	0.96
2/15/93	0.98	0.97
2/16/93	0.97	0.96
2/17/93	0.97	0.95
2/18/93	0.96	0.95
2/19/93	0.96	0.95
2/24/93	0.97	0.95
2/25/93	0.97	0.95
2/26/93	0.96	0.95
2/27/93	0.97	0.96
2/28/93	0.98	0.97
3/1/93	0.97	0.96
3/2/93	0.98	0.97
3/3/93	0.98	0.98

VOC & PCE CONVERSION EFFICIENCY

AICHECOX.XLS

3/4/93	0.96	0.94
3/5/93	0.96	0.95
3/6/93	0.96	0.95
3/7/93	0.98	0.97
3/8/93	0.97	0.96
3/9/93	0.98	0.97
3/10/93	0.98	0.97
3/11/93	0.97	0.95
3/12/93	0.97	0.97
3/13/93	1.00	1.00
3/14/93	0.96	0.94
3/15/93	0.97	0.96
3/16/93	0.97	0.96
3/17/93	1.00	1.00
3/18/93	1.00	1.00
3/19/93	1.00	1.00
3/20/93	1.00	1.00
3/21/93	1.00	1.00
3/22/93	1.00	1.00
3/23/93	1.00	1.00
3/24/93	1.00	1.00
3/25/93	1.00	1.00
3/26/93	1.00	1.00
3/27/93	1.00	1.00
3/28/93	1.00	1.00
3/29/93	1.00	1.00
3/30/93	1.00	1.00
3/31/93	1.00	1.00
4/1/93	1.00	1.00
4/2/93	1.00	1.00
4/3/93	1.00	1.00
4/4/93	0.98	0.97
4/5/93	1.00	1.00
4/6/93	0.98	0.97
4/7/93	1.00	1.00
4/8/93	1.00	1.00
4/9/93	1.00	1.00
4/10/93	1.00	1.00
4/11/93	1.00	1.00
4/12/93	1.00	1.00
4/13/93	1.00	1.00
4/14/93	1.00	1.00
4/15/93	1.00	1.00
4/16/93	0.98	0.97
4/17/93	1.00	1.00
4/18/93	1.00	1.00
4/19/93	1.00	1.00
4/20/93	1.00	1.00
4/21/93	1.00	1.00
4/22/93	1.00	1.00
4/24/93	1.00	1.00
4/25/93 7:	1.00	1.00

AICHECOX.XLS

4/26/93	1.00	1.00
4/27/93	1.00	1.00
4/28/93	0.99	0.98
4/29/93	0.98	0.97
4/30/93	0.97	0.96

VOC & PCE CONVERSION EFFICIENCY

[illegible]

KWCA .XLS

1/5/93	14:08	756	60,480							0.19	400	1/5/93	14:08	2149
1/6/93	9:28	775	62,000							0.81	1,520	1/6/93	9:28	1887
1/6/93	16:53	783	62,640							0.31	640	1/6/93	16:53	2071
1/7/93	9:48	809	64,720							0.70	2,080	1/7/93	9:48	2951
1/7/93	13:23	812	64,960							0.15	240	1/7/93	13:23	1607
1/8/93	8:43	820	65,600							0.81	640	1/8/93	8:43	794
1/8/93	16:23	827	66,160							0.32	560	1/8/93	16:23	1753
1/9/93	11:53	847	67,760							0.81	1,600	1/9/93	11:53	1969
1/10/93	14:40	875.5	70,040							1.12	2,280	1/10/93	14:40	2043
1/11/93	8:58	895	71,600							0.76	1,560	1/11/93	8:58	2046
1/11/93	16:23	903	72,240							0.31	640	1/11/93	16:23	2071
1/12/93	11:40	923	73,840							0.80	1,600	1/12/93	11:40	1991
1/12/93	14:36	926.5	74,120							0.12	280	1/12/93	14:36	2291
1/13/93	8:38	945	75,600							0.75	1,480	1/13/93	8:38	1970
1/13/93	16:18	953	76,240							0.32	640	1/13/93	16:18	2003
1/14/93	10:23	972	77,760							0.75	1,520	1/14/93	10:23	2017
1/15/93	8:48	995.5	79,640							0.93	1,880	1/15/93	8:48	2013
1/15/93	16:33	1004	80,320							0.32	680	1/15/93	16:33	2106
1/26/93	15:53	1045	83,600							10.97	3,280	1/26/93	15:53	299
1/27/93	9:18	1056	84,480							0.73	880	1/27/93	9:18	1213
1/27/93	17:23	1061	84,880							0.34	400	1/27/93	17:23	1188
1/28/93	8:38	1070	85,600							0.64	720	1/28/93	8:38	1133
1/28/93	15:48	1075	86,000							0.30	400	1/28/93	15:48	1340
1/29/93	7:38	1085	86,800							0.66	800	1/29/93	7:38	1213
1/29/93	15:28	1089.5	87,160							0.33	360	1/29/93	15:28	1103
1/30/93	12:23	1102	88,160							0.87	1,000	1/30/93	12:23	1147
1/31/93	10:53	1116	89,280							0.94	1,120	1/31/93	10:53	1195
2/1/93	7:38	1128	90,240							0.86	960	2/1/93	7:38	1110
2/1/93	15:53	1133	90,640							0.34	400	2/1/93	15:53	1164
2/2/93	9:23	1144	91,520							0.73	880	2/2/93	9:23	1207
2/3/93	8:48	1160	92,800							0.98	1,280	2/3/93	8:48	1312
2/3/93	17:03	1165	93,200							0.34	400	2/3/93	17:03	1164
2/4/93	10:08	1177	94,160							0.71	960	2/4/93	10:08	1349
2/4/93	15:08	1180	94,400							0.21	240	2/4/93	15:08	1152
2/5/93	8:33	1191	95,280							0.73	880	2/5/93	8:33	1213
2/5/93	16:13	1195	95,600							0.32	320	2/5/93	16:13	1002
2/7/93	14:53	1212	96,960							1.94	1,360	2/7/93	14:53	699
2/8/93	10:13	1223.5	97,880							0.81	920	2/8/93	10:13	1142
2/8/93	17:08	1227.5	98,200							0.29	320	2/8/93	17:08	1110
2/9/93	10:23	1238	99,040							0.72	840	2/9/93	10:23	1169
2/9/93	14:53	1240	99,200							0.19	160	2/9/93	14:53	853
2/10/93	8:28	1251	100,080							0.73	880	2/10/93	8:28	1201
2/10/93	16:23	1255.5	100,440							0.33	360	2/10/93	16:23	1091
2/11/93	8:53	1265	101,200							0.69	760	2/11/93	8:53	1105
2/11/93	14:08	1268	101,440							0.22	240	2/11/93	14:08	1097
2/12/93	8:53	1279	102,320							0.78	880	2/12/93	8:53	1126
2/12/93	16:58	1284	102,720							0.34	400	2/12/93	16:58	1188
2/13/93	11:38	1294	103,520							0.78	800	2/13/93	11:38	1029
2/14/93	18:53	1312	104,960							1.30	1,440	2/14/93	18:53	1106
2/15/93	7:08	1319	105,520							0.51	560	2/15/93	7:08	1097

KWCA X.XLS

2/15/93	14:18	1323.5	105,880							0.30	360	2/15/93	14:18	1206
2/16/93	8:53	1334	106,720							0.77	840	2/16/93	8:53	1085
2/16/93	14:08	1337	106,960							0.22	240	2/16/93	14:08	1097
2/17/93	7:53	1347.5	107,800							0.74	840	2/17/93	7:53	1136
2/17/93	15:53	1352	108,160							0.33	360	2/17/93	15:53	1080
2/18/93	9:53	1362	108,960							0.75	800	2/18/93	9:53	1067
2/18/93	13:53	1364.5	109,160							0.17	200	2/18/93	13:53	1200
2/19/93	9:53	1375	110,000							0.83	840	2/19/93	9:53	1008
2/19/93	13:53	1380	110,400							0.17	400	2/19/93	13:53	2400
2/24/93	10:53	1446	115,680							4.88	5,280	2/24/93	10:53	1083
2/24/93	16:33	1449	115,920							0.24	240	2/24/93	16:33	1016
2/25/93	9:38	1459	116,720							0.71	800	2/25/93	9:38	1124
2/26/93	8:38	1472	117,760							0.96	1,040	2/26/93	8:38	1085
2/26/93	16:23	1477	118,160							0.32	400	2/26/93	16:23	1239
2/27/93	13:08	1488	119,040							0.86	880	2/27/93	13:08	1018
2/28/93	9:23	1500	120,000							0.84	960	2/28/93	9:23	1138
2/28/93	17:03	1505	120,400							0.32	400	2/28/93	17:03	1252
3/1/93	10:13	1514.5	121,160							0.72	760	3/1/93	10:13	1063
3/1/93	15:08	1517	121,360							0.20	200	3/1/93	15:08	976
3/2/93	7:58	1527	122,160							0.70	800	3/2/93	7:58	1141
3/2/93	16:03	1531	122,480							0.34	320	3/2/93	16:03	950
3/3/93	9:53	1541.5	123,320							0.74	840	3/3/93	9:53	1130
3/3/93	14:07	1544	123,520							0.18	200	3/3/93	14:07	1134
3/4/93	8:53	1554.5	124,360							0.78	840	3/4/93	8:53	1074
3/4/93	17:13	1559	124,720							0.35	360	3/4/93	17:13	1037
3/5/93	9:38	1568	125,440							0.68	720	3/5/93	9:38	1053
3/5/93	14:38	1571	125,680							0.21	240	3/5/93	14:38	1152
3/6/93	9:03	1581	126,480							0.77	800	3/6/93	9:03	1043
3/6/93	17:05	1585	126,800							0.33	320	3/6/93	17:05	956
3/7/93	12:53	1597	127,760							0.83	960	3/7/93	12:53	1164
3/8/93	8:03	1608	128,640							0.80	880	3/8/93	8:03	1102
3/8/93	16:53	1612.5	129,000							0.37	360	3/8/93	16:53	978
3/9/93	10:13	1622.5	129,800							0.72	800	3/9/93	10:13	1108
3/9/93	13:53	1624.5	129,960							0.15	160	3/9/93	13:53	1047
3/10/93	8:53	1635	130,800							0.79	840	3/10/93	8:53	1061
3/10/93	17:08	1639.5	131,160							0.34	360	3/10/93	17:08	1047
3/11/93	8:08	1648	131,840							0.63	680	3/11/93	8:08	1088
3/11/93	12:06	1650	132,000							0.17	160	3/11/93	12:06	968
3/12/93	9:23	1662	132,960							0.89	960	3/12/93	9:23	1083
3/12/93	16:33	1666.5	133,320							0.30	360	3/12/93	16:33	1206
3/13/93	13:08	1678	134,240							0.86	920	3/13/93	13:08	1073
3/14/93	8:53	1682	134,560							0.82	320	3/14/93	8:53	389
3/16/93	8:53	1711	136,880							2.00	2,320	3/16/93	8:53	1160
3/16/93	16:53	1715.5	137,240							0.33	360	3/16/93	16:53	1080
3/17/93	9:10	1725	138,000							0.68	760	3/17/93	9:10	1120
3/17/93	13:08	1727	138,160							0.17	160	3/17/93	13:08	968
3/18/93	8:33	1738.5	139,080							0.81	920	3/18/93	8:33	1137
3/18/93	16:33	1743	139,440							0.33	360	3/18/93	16:33	1080
3/19/93	10:40	1753.5	140,280							0.75	840	3/19/93	10:40	1113
3/19/93	13:53	1755.5	140,440							0.13	160	3/19/93	13:53	1194

KWCA .XLS

3/20/93	8:38	1766	141,280							0.78	840	3/20/93	8:38	1075
3/20/93	20:43	1773	141,840							0.50	560	3/20/93	20:43	1112
3/21/93	9:40	1780	142,400							0.54	560	3/21/93	9:40	1038
3/22/93	7:08	1792	143,360							0.89	960	3/22/93	7:08	1073
3/22/93	19:08	1799	143,920							0.50	560	3/22/93	19:08	1120
3/23/93	11:10	1808	144,640							0.67	720	3/23/93	11:10	1078
3/23/93	14:36	1810	144,800							0.14	160	3/23/93	14:36	1118
3/24/93	5:53	1818	145,440							0.64	640	3/24/93	5:53	1005
3/24/93	17:53	1825	146,000							0.50	560	3/24/93	17:53	1120
3/25/93	9:38	1833	146,640							0.66	640	3/25/93	9:38	975
3/25/93	13:36	1835.5	146,840							0.17	200	3/25/93	13:36	1210
3/26/93	8:08	1844	147,520							0.77	680	3/26/93	8:08	881
3/26/93	15:08	1848	147,840							0.29	320	3/26/93	15:08	1097
3/27/93	10:53	1858	148,640							0.82	800	3/27/93	10:53	972
3/28/93	8:08	1870	149,600							0.89	960	3/28/93	8:08	1084
3/28/93	20:08	1876	150,080							0.50	480	3/28/93	20:08	960
3/29/93	10:13	1884.5	150,760							0.59	680	3/29/93	10:13	1159
3/29/93	18:38	1889	151,120							0.35	360	3/29/93	18:38	1027
3/30/93	8:48	1896.5	151,720							0.59	600	3/30/93	8:48	1016
3/30/93	20:48	1903	152,240							0.50	520	3/30/93	20:48	1040
3/31/93	10:40	1910	152,800							0.58	560	3/31/93	10:40	969
3/31/93	13:06	1912	152,960							0.10	160	3/31/93	13:06	1578
4/1/93	9:18	1923	153,840							0.84	880	4/1/93	9:18	1046
4/1/93	21:18	1929	154,320							0.50	480	4/1/93	21:18	960
4/2/93	10:38	1936	154,880							0.56	560	4/2/93	10:38	1008
4/2/93	14:08	1938	155,040							0.15	160	4/2/93	14:08	1097
4/3/93	11:18	1950	156,000							0.88	960	4/3/93	11:18	1089
4/3/93	23:24	1956	156,480							0.50	480	4/3/93	23:24	952
4/4/93	14:10	1964	157,120							0.62	640	4/4/93	14:10	1040
4/5/93	8:38	1974	157,920							0.77	800	4/5/93	8:38	1040
4/5/93	20:33	1981	158,480							0.50	560	4/5/93	20:33	1128
4/6/93	11:23	1989	159,120							0.62	640	4/6/93	11:23	1036
4/6/93	13:23	1990	159,200							0.08	80	4/6/93	13:23	960
4/7/93	8:53	2001	160,080							0.81	880	4/7/93	8:53	1083
4/7/93	20:53	2007.5	160,600							0.50	520	4/7/93	20:53	1040
4/8/93	10:10	2015	161,200							0.55	600	4/8/93	10:10	1084
4/8/93	17:38	2019	161,520							0.31	320	4/8/93	17:38	1029
4/9/93	12:53	2029	162,320							0.80	800	4/9/93	12:53	997
4/10/93	0:16	2036	162,880							0.47	560	4/10/93	0:16	1181
4/10/93	12:08	2042	163,360							0.49	480	4/10/93	12:08	971
4/11/93	8:53	2054.5	164,360							0.86	1,000	4/11/93	8:53	1157
4/11/93	20:53	2061	164,880							0.50	520	4/11/93	20:53	1040
4/12/93	10:16	2068	165,440							0.56	560	4/12/93	10:16	1004
4/12/93	12:20	2069	165,520							0.09	80	4/12/93	12:20	929
4/13/93	10:43	2081.5	166,520							0.93	1,000	4/13/93	10:43	1072
4/13/93	22:43	2088	167,040							0.50	520	4/13/93	22:43	1040
4/14/93	10:53	2095	167,600							0.51	560	4/14/93	10:53	1105
4/14/93	13:53	2096	167,680							0.13	80	4/14/93	13:53	640
4/15/93	9:53	2107	168,560							0.83	880	4/15/93	9:53	1056
4/15/93	21:53	2113.5	169,080							0.50	520	4/15/93	21:53	1040

KWCA ^XLS

4/16/93	10:23	2120	169,600							0.52	520	4/16/93	10:23	998
4/16/93	16:23	2124	169,920							0.25	320	4/16/93	16:23	1280
4/17/93	10:08	2133	170,640							0.74	720	4/17/93	10:08	974
4/17/93	22:15	2140	171,200							0.50	560	4/17/93	22:15	1109
4/18/93	11:53	2147.5	171,800							0.57	600	4/18/93	11:53	1056
4/19/93	7:21	2158	172,640							0.81	840	4/19/93	7:21	1036
4/19/93	19:21	2165	173,200							0.50	560	4/19/93	19:21	1120
4/20/93	10:38	2173	173,840							0.64	640	4/20/93	10:38	1005
4/20/93	12:53	2174	173,920							0.09	80	4/20/93	12:53	853
4/21/93	10:03	2186	174,880							0.88	960	4/21/93	10:03	1089
4/21/93	22:03	2192.5	175,400							0.50	520	4/21/93	22:03	1040
4/22/93	11:23	2200	176,000							0.56	600	4/22/93	11:23	1080
4/22/93	15:53	2202	176,160							0.19	160	4/22/93	15:53	853
4/23/93	10:23	2212	176,960							0.77	800	4/23/93	10:23	1038
4/23/93	22:23	2219	177,520							0.50	560	4/23/93	22:23	1120
4/24/93	12:38	2227	178,160							0.59	640	4/24/93	12:38	1078
4/25/93	8:05	2237	178,960							0.81	800	4/25/93	8:05	987
4/25/93	18:43	2243	179,440							0.44	480	4/25/93	18:43	1083

SECTION 9

RECOMMENDATIONS ON FUTURE OPERATIONS

ECOVA recommends making the hardware configuration changes described below. These include: keeping high voltage power separate from low voltage, making control panels accessible from the back, capability to turn off alarm system, and install lightning protection.

Additionally, some of the equipment used was over designed for the situation (the Blower, Compressor, and some process piping). Flow rates and pressures listed in the original Request for Proposals were greater than actual. This increased purchase and operation costs.

LIGHTNING PROTECTION

As the system was originally built, lightning protection was not adequate for installation in a lightning prone area. Grounding of the system performed properly, but protection from induced voltages appeared to have caused several shutdowns. Use of a qualified electrical engineer to design this protection is not expensive and provides good protection. Since installing protection on this equipment there has not been one instance of suspected lightning induced shutdowns.

METHANE CONTROL LOOP

The distance between methane injection and process gas analysis should be reduced. On the installed system there was a 15 second lag between changes in injection rate and detection of changes in injection rate. This makes a control loop which is slow to respond, which means that fast changes in process conditions can not be accommodated. When the system was designed the gas analyzers were placed outside the explosion proof zone. This necessitated a long sampling line and hence a long lag time. Reducing the lag time would allow tighter control of injection concentrations and a greater safety factor.

OXIDIZER PROBLEMS

The oxidizer had too many electrical problems. Some of these would be eliminated by proper design of lightning protection. However, some were also caused by poor quality of the control system. Investing resources in selecting a higher quality control system would help future projects.

MISCELLANEOUS CHANGES

Instrumentation and control wiring were not always readily accessible. It would have been helpful during trouble shooting and modification operations if there had been access to the backs of the instruments and control modules.

A capability to turn off the alarm system would have been helpful during trouble shooting operations. When performing repair work, repeated activation of alarm conditions required powering down the entire system.

The oxidizer control system did have problems with unexplained burn out of 200 amp fuses, and unexplained loss of temperature control. These problems caused the only system down times of long duration. The long duration was caused by the time required to obtain replacement components. These problems appeared to be sporadic and were not observed often.

LONG TERM OPERATING REQUIREMENTS

During the course of the 14 months of operations no effort was spent on determining precisely the minimum amount of attention required to keep the system operating smoothly. Under the terms of this contract, activities at the site (analytical work) required an employee presence far greater than what was needed for operation of the process system. The following discussion describes a level of effort that may be required to operate and maintain a system if this type.

SAMPLING FREQUENCIES

Effluent sampling frequencies will be dictated by an air discharge permit. The project operating conditions in the oxidizer (the control temperature) can accurately predict the contaminant concentration of the

discharge air. Therefore, the control system and its emergency alarm can be used to warn of potential discharges above regulatory limits.

GAUGE READINGS

Gauge readings gave a very effective method of monitoring system performance. While too much attention to the system becomes expensive, too little attention could cause the system to malfunction.

Daily reading of the gauges was used during the course of this project and are recommended for continuous operations. There were no system problems that were not indicated by the instrumentation with sufficient lead time to prevent equipment damage.

EQUIPMENT SERVICING

Assuming operation 24 hours per day, according to manufacturer's recommendations, the Blower should have the oil changed monthly, and weekly greasing of bearings. The condensate tank should be blown out weekly.

The Compressor air filter should each be changed bi-monthly. The oil filter should be changed no less than every 1000 hours. The oil should be changed every 1000 hours if the compressor is operating in dirty environments or the air discharge temperature is above 200 degrees F. If the temperature is below 200 degrees F. and the environment is clean then change the oil every 2000 hours. The in line air oil separators should have their elements changed bi-monthly.

The Down Time analyzed in Section 5 indicates the amount of time needed to perform Routine Maintenance. This information suggests that 34 hours were needed to do maintenance on the system over the entire year, or approximately 2.8 hours per month. However, a large portion of the maintenance was scheduled during periods of down time scheduled for other reasons. One can reasonably assume that one day (8 hours) per month would be needed for this type of maintenance work.

SYSTEM CALIBRATION

The methane analyzers require weekly calibration with a calibration gas. The calibration gas is a precision gas mixture which is purchased in order to provide primary calibration capabilities. For this project, a gas mixture of 4% methane was used.

The Kurz flow meters require calibration approximately every 6 months. The Kurz flow meters were disappointing. These flow meters are very accurate, but require a clean, uniform gas stream for which they have been previously calibrated. Dwyer Pitot Tube differential pressure flow meters actually work nearly as well for a fraction of the price.

METHANE GAS SOURCE

The source of the methane gas was a high pressure (approximately 3000 psi) tube trailer. In regulating this gas down to the 25 psig well head pressure a considerable amount of ice was formed. This ice covered the regulators and potentially interfered with their adjustment. More importantly, however, it seemed to occasionally form ice on the inside of the gas lines and cause plugging. Later, as the ice thawed, there would be a large surge of methane to which the control system could not respond fast enough and the entire system would be shut down due to high methane concentrations. Future systems should provide thermally protected lines to prevent this freeze/thaw cycling.

FINAL REPORT APPENDIX

This section contains the following materials:

All data in tabular format

Disk 1

DATE DAY IN. HG.

VACUUM.XLS

WSRC DATA & CHART

VACUUM ON EXTRACTION LINE

DATE	DAYS	Vacuum in. Hg
2/26/92 10:20		
2/26/92 10:20	0.00	6.7
2/26/92 10:42	0.02	6.7
2/26/92 10:47	0.02	6.7
2/26/92 10:51	0.02	6.7
2/26/92 10:59	0.03	6.7
2/26/92 11:20	0.04	6.7
2/26/92 11:28	0.05	6.7
2/26/92 12:20	0.08	6.7
2/26/92 12:28	0.09	6.7
2/26/92 13:26	0.13	6.6
2/26/92 13:38	0.14	6.6
2/26/92 15:20	0.21	6.6
2/26/92 15:25	0.21	6.6
2/26/92 19:30	0.38	6.6
2/26/92 19:50	0.40	6.6
2/26/92 20:30	0.42	6.6
2/26/92 23:20	0.54	6.6
2/26/92 23:25	0.55	6.6
2/27/92 3:20	0.71	6.9
2/27/92 3:23	0.71	6.9
2/27/92 7:20	0.88	6.9
2/27/92 7:23	0.88	6.9
2/27/92 11:22	1.04	6.9
2/27/92 11:27	1.05	6.9
2/27/92 15:22	1.21	6.8
2/27/92 15:26	1.21	6.8
2/27/92 17:20	1.29	6.8
2/27/92 18:10	1.33	6.8
2/28/92 6:20	1.83	0
2/28/92 6:23	1.84	0
2/28/92 12:15	2.08	0
2/28/92 18:20	2.33	0
2/28/92 18:20	2.33	0
2/29/92 7:05	2.86	0
2/29/92 7:10	2.87	0
2/29/92 19:10	3.37	0
2/29/92 19:15	3.37	0
3/1/92 3:05	3.70	0
3/1/92 3:12	3.70	0
3/1/92 15:00	4.19	0
3/1/92 15:05	4.20	0
3/2/92 7:45	4.89	6.8
3/2/92 7:50	4.90	6.8
3/2/92 19:00	5.36	6.8
3/2/92 19:05	5.36	6.8

DATE DAY IN. HG.

VACUUM.XLS

3/5/92 23:45	8.56	6.6
3/5/92 23:48	8.56	6.6
3/6/92 0:45	8.60	6.7
3/6/92 2:45	8.68	6.7
3/6/92 2:50	8.69	6.8
3/6/92 6:45	8.85	6.8
3/6/92 10:45	9.02	6.8
3/6/92 10:50	9.02	6.8
3/6/92 14:45	9.18	6.8
3/6/92 14:48	9.18	6.8
3/7/92 7:45	9.89	6.9
3/7/92 7:50	9.90	6.9
3/7/92 16:45	10.27	6.8
3/8/92 7:45	10.89	7
3/8/92 7:50	10.90	7
3/8/92 16:45	11.27	6.9
3/9/92 7:45	11.89	7.1
3/9/92 7:50	11.90	7.1
3/9/92 16:45	12.27	6.9
3/9/92 16:45	12.27	6.9
3/10/92 7:45	12.89	7.5
3/10/92 7:50	12.90	7.5
3/10/92 10:00	12.99	7.5
3/10/92 16:45	13.27	7.9
3/11/92 7:45	13.89	7
3/11/92 7:50	13.90	7
3/11/92 16:45	14.27	7.9
3/12/92 7:45	14.89	8.1
3/12/92 7:50	14.90	8.1
3/12/92 7:50	14.90	8.1
3/12/92 15:45	15.23	7.8
3/13/92 7:45	15.89	7.6
3/13/92 7:50	15.90	7.6
3/13/92 16:45	16.27	6.9
3/14/92 7:45	16.89	7.7
3/14/92 7:50	16.90	7.7
3/14/92 15:45	17.23	6.8
3/15/92 7:30	17.88	7.3
3/15/92 7:35	17.89	7.3
3/15/92 16:15	18.25	7
3/16/92 7:35	18.89	7.5
3/16/92 7:40	18.89	7.5
3/16/92 7:40	18.89	7.5
3/16/92 15:50	19.23	7.2
3/17/92 7:50	19.90	7.7
3/17/92 7:55	19.90	7.7
3/17/92 16:30	20.26	7.4
3/18/92 7:50	20.90	7.7
3/18/92 7:55	20.90	7.7
3/18/92 17:00	21.28	7.1
3/19/92 7:45	21.89	7.2
3/19/92 7:50	21.90	7.2

DATE DAY IN. HG.

VACUUM.XLS

3/19/92 14:30	22.17	7.2
3/20/92 8:00	22.90	7.4
3/20/92 8:05	22.91	7.4
3/20/92 17:00	23.28	7.4
3/21/92 7:45	23.89	7.6
3/21/92 7:50	23.90	7.6
3/21/92 7:50	23.90	7.6
3/21/92 16:00	24.24	7.3
3/22/92 7:40	24.89	7.4
3/22/92 7:45	24.89	7.4
3/22/92 15:45	25.23	7.2
3/23/92 7:45	25.89	7.4
3/23/92 7:50	25.90	7.4
3/23/92 15:00	26.19	7.4
3/24/92 8:00	26.90	8
3/24/92 8:00	26.90	8
3/24/92 8:05	26.91	8
3/24/92 16:45	27.27	7.6
3/25/92 8:00	27.90	7.9
3/25/92 8:05	27.91	7.9
3/25/92 16:30	28.26	7.6
3/26/92 7:00	28.86	7.6
3/26/92 7:05	28.86	7.6
3/26/92 16:00	29.24	7.6
3/27/92 8:00	29.90	7.6
3/27/92 8:05	29.91	7.6
3/27/92 17:00	30.28	7.4
3/28/92 6:55	30.86	7.9
3/28/92 7:00	30.86	7.9
3/28/92 14:00	31.15	7.4
3/29/92 6:50	31.85	7.5
3/29/92 6:55	31.86	7.5
3/29/92 14:55	32.19	7.4
4/2/92 15:00	36.19	6.8
4/2/92 15:01	36.20	6.8
4/2/92 15:05	36.20	6.8
4/2/92 17:00	36.28	6.9
4/2/92 17:05	36.28	6.9
4/2/92 19:00	36.36	6.9
4/3/92 8:00	36.90	7.3
4/3/92 8:05	36.91	7.3
4/3/92 16:05	37.24	7.3
4/4/92 6:45	37.85	7.8
4/4/92 6:50	37.85	7.8
4/5/92 8:00	38.90	7.4
4/5/92 8:05	38.91	7.4
4/5/92 15:00	39.19	7.4
4/5/92 15:00	39.19	7.4
4/6/92 9:00	39.94	7.6
4/6/92 9:05	39.95	7.6
4/6/92 16:00	40.24	7.6
4/7/92 9:00	40.94	7.6

DATE DAY IN. HG.

VACUUM.XLS

4/7/92 9:05	40.95	7.6
4/7/92 16:00	41.24	7.6
4/8/92 8:55	41.94	7.6
4/8/92 9:00	41.94	7.6
4/8/92 16:00	42.24	7.7
4/9/92 7:00	42.86	7.5
4/9/92 7:00	42.86	7.5
4/9/92 7:05	42.86	7.5
4/9/92 16:00	43.24	8
4/10/92 7:00	43.86	7.3
4/10/92 7:05	43.86	7.3
4/10/92 15:00	44.19	8.1
4/10/92 15:00	44.19	8.1
4/11/92 7:00	44.86	6.3
4/11/92 7:05	44.86	6.3
4/11/92 13:00	45.11	7.3
4/12/92 7:00	45.86	8
4/12/92 7:05	45.86	8
4/12/92 13:55	46.15	7.9
4/13/92 8:00	46.90	8
4/13/92 8:05	46.91	8
4/13/92 16:00	47.24	8
4/14/92 8:00	47.90	8.2
4/14/92 8:00	47.90	8.2
4/14/92 8:05	47.91	8.2
4/14/92 16:00	48.24	7.4
4/15/92 8:00	48.90	7.7
4/15/92 8:05	48.91	7.7
4/15/92 15:00	49.19	7.4
4/16/92 7:00	49.86	7.7
4/16/92 7:05	49.86	7.7
4/16/92 15:55	50.23	6.8
4/17/92 8:00	50.90	7.4
4/17/92 8:05	50.91	7.4
4/17/92 14:00	51.15	7.6
4/18/92 7:00	51.86	7.4
4/18/92 7:05	51.86	7.4
4/18/92 13:00	52.11	7
4/19/92 7:00	52.86	7.5
4/19/92 7:00	52.86	7.5
4/19/92 7:05	52.86	7.5
4/19/92 14:05	53.16	7.6
4/20/92 7:00	53.86	7.8
4/20/92 7:05	53.86	7.8
4/20/92 9:00	53.94	7.8
4/20/92 16:00	54.24	7.4
4/21/92 9:00	54.94	7.4
4/21/92 9:05	54.95	7.4
4/21/92 16:00	55.24	7
4/22/92 8:00	55.90	8
4/22/92 8:00	55.90	8
4/22/92 8:05	55.91	8

DATE DAY IN. HG.

VACUUM.XLS

4/22/92 16:00	56.24	7.6
4/23/92 9:00	56.94	8.2
4/23/92 9:05	56.95	8.2
4/23/92 16:00	57.24	8
4/23/92 16:05	57.24	8
4/24/92 9:00	57.94	8.1
4/24/92 9:00	57.94	8.1
4/24/92 9:05	57.95	8.1
4/24/92 14:00	58.15	7.9
4/26/92 8:00	59.90	7.4
4/26/92 8:05	59.91	7.4
4/26/92 14:00	60.15	7.2
4/27/92 8:00	60.90	7.4
4/27/92 8:00	60.90	7.4
4/27/92 8:05	60.91	7.4
4/27/92 8:05	60.91	7.4
4/27/92 15:00	61.19	7.4
4/27/92 15:00	61.19	7.4
4/28/92 8:00	61.90	7.4
4/28/92 8:00	61.90	7.4
4/28/92 8:05	61.91	7.4
4/28/92 8:05	61.91	7.4
4/28/92 8:05	61.91	7.4
4/28/92 8:05	61.91	7.4
4/28/92 15:00	62.19	7.2
4/28/92 15:00	62.19	7.2
4/29/92 8:00	62.90	7.4
4/29/92 8:00	62.90	7.4
4/29/92 8:05	62.91	7.4
4/29/92 8:05	62.91	7.4
4/29/92 15:00	63.19	7.2
4/29/92 15:00	63.19	7.2
4/30/92 8:00	63.90	7.3
4/30/92 8:00	63.90	7.3
4/30/92 8:05	63.91	7.3
4/30/92 8:05	63.91	7.3
4/30/92 16:00	64.24	7.1
4/30/92 16:00	64.24	7.1
5/1/92 8:00	64.90	7.2
5/1/92 8:00	64.90	7.2
5/1/92 8:05	64.91	7.2
5/1/92 8:05	64.91	7.2
5/1/92 15:00	65.19	7.1
5/1/92 15:00	65.19	7.1
5/2/92 8:00	65.90	7.3
5/2/92 8:00	65.90	7.3
5/2/92 8:05	65.91	7.3
5/2/92 8:05	65.91	7.3
5/3/92 8:00	66.90	7.2
5/3/92 8:00	66.90	7.2
5/3/92 8:00	66.90	7.2
5/3/92 8:05	66.91	7.2

DATE DAY IN. HG. VACUUM.XLS

5/3/92 8:05	66.91	7.2
5/4/92 8:00	67.90	7.4
5/4/92 8:00	67.90	7.4
5/4/92 8:05	67.91	7.4
5/4/92 8:05	67.91	7.4
5/4/92 8:05	67.91	7.4
5/4/92 15:00	68.19	7.2
5/4/92 15:00	68.19	7.2
5/5/92 8:00	68.90	7.4
5/5/92 8:00	68.90	7.4
5/5/92 8:05	68.91	7.4
5/5/92 8:05	68.91	7.4
5/5/92 15:00	69.19	7.2
5/5/92 15:00	69.19	7.2
5/6/92 8:00	69.90	7.4
5/6/92 8:00	69.90	7.4
5/6/92 8:00	69.90	7.4
5/6/92 8:05	69.91	7.4
5/6/92 8:05	69.91	7.4
5/6/92 16:00	70.24	7.4
5/6/92 16:00	70.24	7.4
5/7/92 7:00	70.86	7.3
5/7/92 7:00	70.86	7.3
5/7/92 7:05	70.86	7.3
5/7/92 7:05	70.86	7.3
5/7/92 15:00	71.19	7.3
5/7/92 15:00	71.19	7.3
5/8/92 7:00	71.86	7.3
5/8/92 7:00	71.86	7.3
5/8/92 7:00	71.86	7.3
5/8/92 7:00	71.86	7.3
5/8/92 7:05	71.86	7.3
5/8/92 7:05	71.86	7.3
5/8/92 13:00	72.11	7.1
5/8/92 13:00	72.11	7.1
5/8/92 13:00	72.11	7.1
5/9/92 8:00	72.90	7.3
5/9/92 8:00	72.90	7.3
5/9/92 8:05	72.91	7.3
5/9/92 8:05	72.91	7.3
5/10/92 8:00	73.90	7.3
5/10/92 8:00	73.90	7.3
5/10/92 8:05	73.91	7.3
5/10/92 8:05	73.91	7.3
5/11/92 8:00	74.90	7.4
5/11/92 8:00	74.90	7.4
5/11/92 8:05	74.91	7.4
5/11/92 8:05	74.91	7.4
5/11/92 14:00	75.15	7.4
5/11/92 14:00	75.15	7.4
5/11/92 14:00	75.15	7.4
5/12/92 8:00	75.90	7.4

DATE DAY IN. HG.

VACUUM.XLS

5/12/92 8:00	75.90	7.4
5/12/92 8:05	75.91	7.4
5/12/92 8:05	75.91	7.4
5/12/92 14:00	76.15	7
5/12/92 14:00	76.15	7
5/12/92 14:00	76.15	7
5/13/92 8:00	76.90	7.2
5/13/92 8:00	76.90	7.2
5/13/92 8:05	76.91	7.2
5/13/92 8:05	76.91	7.2
5/13/92 14:00	77.15	7.2
5/13/92 14:00	77.15	7.2
5/14/92 7:00	77.86	7.2
5/14/92 7:00	77.86	7.2
5/14/92 7:05	77.86	7.2
5/14/92 7:05	77.86	7.2
5/14/92 15:00	78.19	7.1
5/14/92 15:00	78.19	7.1
5/14/92 15:00	78.19	7.1
5/15/92 7:00	78.86	7.3
5/15/92 7:00	78.86	7.3
5/15/92 7:05	78.86	7.3
5/15/92 7:05	78.86	7.3
5/15/92 14:00	79.15	6.9
5/15/92 14:00	79.15	6.9
5/16/92 10:00	79.99	7.5
5/16/92 10:00	79.99	7.5
5/16/92 10:00	79.99	7.5
5/16/92 10:05	79.99	7.5
5/16/92 10:05	79.99	7.5
5/17/92 8:00	80.90	7.5
5/17/92 8:00	80.90	7.5
5/17/92 8:05	80.91	7.5
5/17/92 8:05	80.91	7.5
5/18/92 17:05	82.28	6.4
5/18/92 17:05	82.28	6.4
5/18/92 17:10	82.28	6.4
5/18/92 17:10	82.28	6.4
5/19/92 8:00	82.90	7.1
5/19/92 8:00	82.90	7.1
5/19/92 8:05	82.91	7.1
5/19/92 8:05	82.91	7.1
5/19/92 15:00	83.19	7
5/19/92 15:00	83.19	7
5/19/92 15:00	83.19	7
5/20/92 8:00	83.90	7.3
5/20/92 8:00	83.90	7.3
5/20/92 8:05	83.91	7.3
5/20/92 8:05	83.91	7.3
5/20/92 8:05	83.91	7.3
5/20/92 15:00	84.19	7.1
5/20/92 15:00	84.19	7.1

DATE DAY IN. HG.

VACUUM.XLS

5/21/92 8:00	84.90	7.2
5/21/92 8:00	84.90	7.2
5/21/92 7:55	84.90	7.2
5/21/92 7:55	84.90	7.2
5/21/92 14:30	85.17	7.2
5/21/92 14:30	85.17	7.2
5/21/92 14:30	85.17	7.2
5/22/92 7:05	85.86	7.3
5/22/92 7:05	85.86	7.3
5/22/92 7:00	85.86	7.3
5/22/92 7:00	85.86	7.3
5/22/92 7:00	85.86	7.3
5/22/92 13:05	86.11	7.2
5/22/92 13:05	86.11	7.2
5/22/92 13:05	86.11	7.2
5/23/92 8:00	86.90	7.1
5/23/92 8:00	86.90	7.1
5/23/92 8:05	86.91	7.1
5/23/92 8:05	86.91	7.1
5/24/92 8:00	87.90	7.1
5/24/92 8:00	87.90	7.1
5/24/92 8:05	87.91	7.1
5/24/92 8:05	87.91	7.1
5/25/92 8:00	88.90	7.1
5/25/92 8:00	88.90	7.1
5/25/92 8:00	88.90	7.1
5/25/92 8:05	88.91	7.1
5/25/92 8:05	88.91	7.1
5/25/92 17:00	89.28	7.1
5/25/92 17:00	89.28	7.1
5/26/92 8:00	89.90	7.4
5/26/92 8:00	89.90	7.4
5/26/92 8:05	89.91	7.4
5/26/92 8:05	89.91	7.4
5/26/92 14:00	90.15	7.3
5/26/92 14:00	90.15	7.3
5/26/92 14:00	90.15	7.3
5/27/92 8:00	90.90	7.4
5/27/92 8:00	90.90	7.4
5/27/92 8:05	90.91	7.4
5/27/92 8:05	90.91	7.4
5/27/92 13:00	91.11	7.6
5/27/92 13:00	91.11	7.6
5/28/92 8:00	91.90	7.4
5/28/92 8:00	91.90	7.4
5/28/92 8:05	91.91	7.4
5/28/92 8:05	91.91	7.4
5/28/92 8:05	91.91	7.4
5/28/92 16:00	92.24	7.2
5/28/92 16:00	92.24	7.2
5/28/92 16:00	92.24	7.2
5/29/92 6:05	92.82	7.2

DATE DAY IN. HG.

VACUUM.XLS

5/29/92 6:05	92.82	7.2
5/29/92 6:10	92.83	7.2
5/29/92 6:10	92.83	7.2
5/29/92 12:00	93.07	7.4
5/29/92 12:00	93.07	7.4
5/29/92 12:00	93.07	7.4
5/30/92 8:00	93.90	7.3
5/30/92 8:00	93.90	7.3
5/30/92 8:05	93.91	7.3
5/30/92 8:05	93.91	7.3
5/31/92 10:00	94.99	7.4
5/31/92 10:00	94.99	7.4
5/31/92 10:05	94.99	7.4
5/31/92 10:05	94.99	7.4
6/1/92 8:00	95.90	7.4
6/1/92 8:00	95.90	7.4
6/1/92 8:05	95.91	7.4
6/1/92 8:05	95.91	7.4
6/1/92 14:00	96.15	7.2
6/1/92 14:00	96.15	7.2
6/2/92 8:00	96.90	7.4
6/2/92 8:00	96.90	7.4
6/2/92 8:05	96.91	7.4
6/2/92 8:05	96.91	7.4
6/2/92 8:05	96.91	7.4
6/2/92 14:00	97.15	7.4
6/2/92 14:00	97.15	7.4
6/2/92 14:00	97.15	7.4
6/3/92 8:00	97.90	7.4
6/3/92 8:00	97.90	7.4
6/3/92 8:05	97.91	7.4
6/3/92 8:05	97.91	7.4
6/3/92 14:00	98.15	7.4
6/3/92 14:00	98.15	7.4
6/4/92 8:00	98.90	7.6
6/4/92 8:00	98.90	7.6
6/4/92 8:05	98.91	7.6
6/4/92 8:05	98.91	7.6
6/4/92 14:00	99.15	7.4
6/4/92 14:00	99.15	7.4
6/4/92 14:00	99.15	7.4
6/5/92 8:00	99.90	7.2
6/5/92 8:00	99.90	7.2
6/5/92 8:05	99.91	7.2
6/5/92 8:05	99.91	7.2
6/6/92 16:00	101.24	7.2
6/6/92 16:00	101.24	7.2
6/6/92 16:00	101.24	7.2
6/6/92 16:05	101.24	7.2
6/6/92 16:05	101.24	7.2
6/7/92 11:00	102.03	7.5
6/7/92 11:00	102.03	7.5

DATE DAY IN. HG.

VACUUM.XLS

6/7/92 11:05	102.03	7.5
6/7/92 11:05	102.03	7.5
6/8/92 8:00	102.90	7.6
6/8/92 8:00	102.90	7.6
6/8/92 8:05	102.91	7.6
6/8/92 8:05	102.91	7.6
6/10/92 8:00	104.90	6.9
6/10/92 8:00	104.90	6.9
6/10/92 8:00	104.90	6.9
6/10/92 8:05	104.91	6.9
6/10/92 8:05	104.91	6.9
6/10/92 14:00	105.15	7
6/10/92 14:00	105.15	7
6/11/92 8:00	105.90	7.2
6/11/92 8:00	105.90	7.2
6/11/92 8:05	105.91	7.2
6/11/92 8:05	105.91	7.2
6/11/92 8:05	105.91	7.2
6/11/92 14:00	106.15	7
6/11/92 14:00	106.15	7
6/11/92 14:00	106.15	7
6/12/92 8:00	106.90	7.5
6/12/92 8:00	106.90	7.5
6/12/92 8:00	106.90	7.5
6/12/92 8:00	106.90	7.5
6/12/92 8:00	106.90	7.5
6/12/92 12:00	107.07	7.6
6/12/92 12:00	107.07	7.6
6/13/92 12:00	108.07	7.6
6/13/92 12:00	108.07	7.6
6/13/92 12:00	108.07	7.6
6/13/92 12:00	108.07	7.6
6/13/92 12:00	108.07	7.6
6/14/92 13:00	109.11	7.4
6/14/92 13:00	109.11	7.4
6/14/92 13:00	109.11	7.4
6/15/92 9:30	109.97	7.6
6/15/92 9:30	109.97	7.6
6/15/92 9:35	109.97	7.6
6/15/92 9:35	109.97	7.6
6/15/92 15:00	110.19	7.6
6/15/92 15:00	110.19	7.6
6/16/92 8:00	110.90	7.6
6/16/92 8:00	110.90	7.6
6/16/92 8:05	110.91	7.6
6/16/92 8:05	110.91	7.6
6/16/92 14:00	111.15	7.6
6/16/92 14:00	111.15	7.6
6/17/92 8:00	111.90	7.8
6/17/92 8:00	111.90	7.8

DATE DAY IN. HG.

VACUUM.XLS

6/17/92 8:00	111.90	7.8
6/17/92 8:00	111.90	7.8
6/17/92 8:05	111.91	7.8
6/17/92 8:05	111.91	7.8
6/17/92 13:00	112.11	7.8
6/17/92 13:00	112.11	7.8
6/18/92 8:00	112.90	7.7
6/18/92 8:00	112.90	7.7
6/18/92 8:05	112.91	7.7
6/18/92 8:05	112.91	7.7
6/18/92 16:25	113.25	7
6/18/92 16:25	113.25	7
6/19/92 9:08	113.95	6.4
6/19/92 9:08	113.95	6.4
6/19/92 9:08	113.95	6.4
6/19/92 9:21	113.96	6.4
6/19/92 9:21	113.96	6.4
6/19/92 12:15	114.08	7
6/19/92 12:15	114.08	7
6/23/92 8:30	117.92	7.1
6/23/92 8:30	117.92	7.1
6/23/92 8:30	117.92	7.1
6/23/92 8:30	117.92	7.1
6/23/92 13:30	118.13	7.9
6/23/92 13:30	118.13	7.9
6/24/92 8:00	118.90	7.2
6/24/92 8:00	118.90	7.2
6/24/92 8:00	118.90	7.2
6/24/92 8:00	118.90	7.2
6/24/92 8:00	118.90	7.2
6/24/92 8:00	118.90	7.2
6/24/92 12:00	119.07	7.1
6/24/92 12:00	119.07	7.1
6/25/92 8:00	119.90	7.6
6/25/92 8:00	119.90	7.6
6/25/92 8:00	119.90	7.6
6/25/92 8:00	119.90	7.6
6/25/92 12:30	120.09	7.4
6/25/92 12:30	120.09	7.4
6/26/92 8:30	120.92	7.6
6/26/92 8:30	120.92	7.6
6/26/92 8:30	120.92	7.6
6/26/92 8:30	120.92	7.6
6/26/92 8:30	120.92	7.6
6/26/92 13:00	121.11	7.6
6/26/92 13:00	121.11	7.6
6/27/92 11:30	122.05	7.6
6/27/92 11:30	122.05	7.6
6/27/92 11:30	122.05	7.6
6/27/92 11:30	122.05	7.6
6/27/92 11:30	122.05	7.6
6/28/92 11:30	123.05	7.8

DATE DAY IN. HG.

VACUUM.XLS

6/28/92 11:30	123.05	7.8
6/28/92 11:30	123.05	7.8
6/28/92 11:30	123.05	7.8
6/28/92 11:30	123.05	7.8
6/29/92 7:30	123.88	7.9
6/29/92 7:30	123.88	7.9
6/29/92 7:35	123.89	7.9
6/29/92 7:35	123.89	7.9
6/29/92 13:00	124.11	7.9
6/29/92 13:00	124.11	7.9
6/30/92 9:00	124.94	7.9
6/30/92 9:00	124.94	7.9
6/30/92 9:05	124.95	7.9
6/30/92 9:05	124.95	7.9
6/30/92 14:00	125.15	7.9
6/30/92 14:00	125.15	7.9
7/1/92 9:30	125.97	7.4
7/1/92 9:30	125.97	7.4
7/1/92 9:30	125.97	7.4
7/1/92 9:35	125.97	7.4
7/1/92 9:35	125.97	7.4
7/1/92 14:00	126.15	7
7/1/92 14:00	126.15	7
7/1/92 14:00	126.15	7
7/2/92 8:00	126.90	7.4
7/2/92 8:00	126.90	7.4
7/2/92 8:05	126.91	7.4
7/2/92 8:05	126.91	7.4
7/2/92 13:30	127.13	8
7/2/92 13:30	127.13	8
7/3/92 8:00	127.90	7.9
7/3/92 8:00	127.90	7.9
7/3/92 8:00	127.90	7.9
7/3/92 8:05	127.91	7.9
7/3/92 8:05	127.91	7.9
7/3/92 12:00	128.07	7.9
7/3/92 12:00	128.07	7.9
7/3/92 12:00	128.07	7.9
7/4/92 11:00	129.03	7.6
7/4/92 11:00	129.03	7.6
7/4/92 11:05	129.03	7.6
7/4/92 11:05	129.03	7.6
7/5/92 11:00	130.03	7.6
7/5/92 11:00	130.03	7.6
7/5/92 11:05	130.03	7.6
7/5/92 11:05	130.03	7.6
7/6/92 9:00	130.94	7.6
7/6/92 9:00	130.94	7.6
7/6/92 9:05	130.95	7.6
7/6/92 9:05	130.95	7.6
7/6/92 9:05	130.95	7.6
7/6/92 15:00	131.19	7.6

DATE DAY IN. HG.

VACUUM.XLS

7/6/92 15:00	131.19	7.6
7/6/92 15:00	131.19	7.6
7/7/92 9:30	131.97	7.6
7/7/92 9:30	131.97	7.6
7/7/92 9:35	131.97	7.6
7/7/92 9:35	131.97	7.6
7/7/92 13:30	132.13	7.6
7/7/92 13:30	132.13	7.6
7/8/92 8:00	132.90	7.8
7/8/92 8:00	132.90	7.8
7/8/92 8:05	132.91	7.8
7/8/92 8:05	132.91	7.8
7/8/92 15:00	133.19	7.8
7/8/92 15:00	133.19	7.8
7/9/92 9:00	133.94	7.4
7/9/92 9:00	133.94	7.4
7/9/92 9:05	133.95	7.4
7/9/92 9:05	133.95	7.4
7/9/92 14:00	134.15	7.2
7/9/92 14:00	134.15	7.2
7/10/92 10:00	134.99	7.7
7/10/92 10:00	134.99	7.7
7/10/92 10:05	134.99	7.7
7/10/92 10:05	134.99	7.7
7/10/92 13:00	135.11	7.6
7/10/92 13:00	135.11	7.6
7/11/92 9:30	135.97	7.7
7/11/92 9:30	135.97	7.7
7/11/92 9:35	135.97	7.7
7/11/92 9:35	135.97	7.7
7/11/92 9:35	135.97	7.7
7/12/92 10:15	137.00	7.3
7/12/92 10:15	137.00	7.3
7/12/92 10:24	137.00	7.3
7/12/92 10:24	137.00	7.3
7/13/92 8:40	137.93	7.4
7/13/92 8:40	137.93	7.4
7/13/92 8:43	137.93	7.4
7/13/92 8:43	137.93	7.4
7/13/92 13:35	138.14	7.4
7/13/92 13:35	138.14	7.4
7/14/92 8:40	138.93	7.3
7/14/92 8:40	138.93	7.3
7/14/92 8:43	138.93	7.3
7/14/92 8:43	138.93	7.3
7/14/92 13:25	139.13	7.4
7/14/92 13:25	139.13	7.4
7/15/92 8:11	139.91	7.5
7/15/92 8:11	139.91	7.5
7/15/92 8:11	139.91	7.5
7/15/92 8:15	139.91	7.5
7/15/92 8:15	139.91	7.5

DATE DAY IN. HG.

VACUUM.XLS

7/15/92 8:15	139.91	7.5
7/15/92 13:31	140.13	7.5
7/15/92 13:31	140.13	7.5
7/16/92 8:10	140.91	7.5
7/16/92 8:10	140.91	7.5
7/16/92 8:14	140.91	7.5
7/16/92 8:14	140.91	7.5
7/16/92 13:58	141.15	7.5
7/16/92 13:58	141.15	7.5
7/17/92 9:45	141.98	7.5
7/17/92 9:45	141.98	7.5
7/17/92 9:45	141.98	7.5
7/17/92 9:50	141.98	7.5
7/17/92 9:50	141.98	7.5
7/17/92 13:29	142.13	7.5
7/17/92 13:29	142.13	7.5
7/18/92 8:05	142.91	7.6
7/18/92 8:05	142.91	7.6
7/18/92 8:10	142.91	7.6
7/18/92 8:10	142.91	7.6
7/19/91 8:02	-222.10	7.6
7/19/91 8:02	-222.10	7.6
7/19/92 8:10	143.91	7.6
7/19/92 8:10	143.91	7.6
7/20/92 7:45	144.89	7.6
7/20/92 7:45	144.89	7.6
7/20/92 7:51	144.90	7.6
7/20/92 7:51	144.90	7.6
7/20/92 7:51	144.90	7.6
7/20/92 13:00	145.11	7.4
7/20/92 13:00	145.11	7.4
7/21/92 9:10	145.95	6.8
7/21/92 9:10	145.95	6.8
7/21/92 9:15	145.95	6.8
7/21/92 9:15	145.95	6.8
7/21/92 13:30	146.13	6.8
7/21/92 13:30	146.13	6.8
7/21/92 13:30	146.13	6.8
7/22/92 8:39	146.93	7.2
7/22/92 8:39	146.93	7.2
7/22/92 8:44	146.93	7.2
7/22/92 8:44	146.93	7.2
7/22/92 13:35	147.14	7
7/22/92 13:35	147.14	7
7/23/92 8:02	147.90	7.1
7/23/92 8:02	147.90	7.1
7/23/92 8:07	147.91	7.1
7/23/92 8:07	147.91	7.1
7/23/92 13:30	148.13	7
7/23/92 13:30	148.13	7
7/24/92 7:50	148.90	7.2
7/24/92 7:50	148.90	7.2

DATE DAY IN. HG.

VACUUM.XLS

7/24/92 7:50	148.90	7.2
7/24/92 7:55	148.90	7.2
7/24/92 7:55	148.90	7.2
7/24/92 13:00	149.11	7
7/24/92 13:00	149.11	7
7/25/92 8:10	149.91	7.2
7/25/92 8:10	149.91	7.2
7/25/92 8:15	149.91	7.2
7/25/92 8:15	149.91	7.2
7/26/92 9:30	150.97	7.4
7/26/92 9:30	150.97	7.4
7/26/92 9:34	150.97	7.4
7/26/92 9:34	150.97	7.4
7/27/92 8:00	151.90	7.5
7/27/92 8:00	151.90	7.5
7/27/92 8:00	151.90	7.5
7/27/92 8:05	151.91	7.5
7/27/92 8:05	151.91	7.5
7/27/92 13:00	152.11	7.4
7/27/92 13:00	152.11	7.4
7/28/92 10:00	152.99	7.8
7/28/92 10:00	152.99	7.8
7/28/92 10:05	152.99	7.8
7/28/92 10:05	152.99	7.8
7/28/92 12:00	153.07	7.7
7/28/92 12:00	153.07	7.7
7/29/92 9:00	153.94	7.8
7/29/92 9:00	153.94	7.8
7/29/92 9:00	153.94	7.8
7/29/92 9:05	153.95	7.8
7/29/92 9:05	153.95	7.8
7/29/92 13:00	154.11	7.7
7/29/92 13:00	154.11	7.7
7/30/92 7:00	154.86	7.8
7/30/92 7:00	154.86	7.8
7/30/92 7:05	154.86	7.8
7/30/92 7:05	154.86	7.8
7/30/92 7:05	154.86	7.8
7/30/92 12:00	155.07	7.8
7/30/92 12:00	155.07	7.8
7/31/92 9:00	155.94	7.8
7/31/92 9:00	155.94	7.8
7/31/92 9:00	155.94	7.8
7/31/92 9:05	155.95	7.8
7/31/92 9:05	155.95	7.8
7/31/92 12:00	156.07	7.8
7/31/92 12:00	156.07	7.8
8/6/92 8:00	161.90	7
8/6/92 8:00	161.90	7
8/6/92 8:05	161.91	7
8/6/92 8:05	161.91	7
8/6/92 12:00	162.07	7.1

DATE	DAY	IN. HG.	VACUUM.XLS
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8/6/92 12:00	162.07	7.1
8/7/92 8:20	162.92	7.2
8/7/92 8:20	162.92	7.2
8/7/92 8:25	162.92	7.2
8/7/92 8:25	162.92	7.2
8/7/92 13:22	163.13	7
8/7/92 13:22	163.13	7
8/8/92 9:30	163.97	7.2
8/8/92 9:30	163.97	7.2
8/8/92 9:35	163.97	7.2
8/8/92 9:35	163.97	7.2
8/9/92 8:00	164.90	7.2
8/9/92 8:00	164.90	7.2
8/9/92 8:05	164.91	7.2
8/9/92 8:05	164.91	7.2
8/10/92 7:35	165.89	7.1
8/10/92 7:35	165.89	7.1
8/10/92 7:35	165.89	7.1
8/10/92 7:40	165.89	7.1
8/10/92 7:40	165.89	7.1
8/10/92 13:20	166.13	7
8/10/92 13:20	166.13	7
8/11/92 8:00	166.90	7.3
8/11/92 8:00	166.90	7.3
8/11/92 8:00	166.90	7.3
8/11/92 8:05	166.91	7.3
8/11/92 8:05	166.91	7.3
8/11/92 13:00	167.11	7.3
8/11/92 13:00	167.11	7.3
8/12/92 7:50	167.90	7.3
8/12/92 7:50	167.90	7.3
8/12/92 7:55	167.90	7.3
8/12/92 7:55	167.90	7.3
8/12/92 12:26	168.09	7.3
8/12/92 12:26	168.09	7.3
8/12/92 12:26	168.09	7.3
8/13/92 8:20	168.92	8.2
8/13/92 8:20	168.92	8.2
8/13/92 8:25	168.92	8.2
8/13/92 8:25	168.92	8.2
8/13/92 15:00	169.19	7.7
8/13/92 15:00	169.19	7.7
8/14/92 8:15	169.91	8.2
8/14/92 8:15	169.91	8.2
8/14/92 8:20	169.92	8.2
8/14/92 8:20	169.92	8.2
8/14/92 13:00	170.11	7.4
8/14/92 13:00	170.11	7.4
8/14/92 13:00	170.11	7.4
8/15/92 8:20	170.92	7.6
8/15/92 8:20	170.92	7.6
8/15/92 8:25	170.92	7.6

DATE DAY IN. HG.

VACUUM.XLS

8/15/92 8:25	170.92	7.6
8/16/92 8:15	171.91	7.6
8/16/92 8:15	171.91	7.6
8/16/92 8:20	171.92	7.6
8/16/92 8:20	171.92	7.6
8/17/92 9:00	172.94	7.6
8/17/92 9:00	172.94	7.6
8/17/92 9:00	172.94	7.6
8/17/92 9:00	172.94	7.6
8/17/92 9:05	172.95	7.6
8/17/92 9:05	172.95	7.6
8/17/92 14:30	173.17	7.6
8/17/92 14:30	173.17	7.6
8/18/92 8:25	173.92	7.6
8/18/92 8:25	173.92	7.6
8/18/92 8:30	173.92	7.6
8/18/92 8:30	173.92	7.6
8/18/92 14:00	174.15	7.1
8/18/92 14:00	174.15	7.1
8/19/92 8:10	174.91	7.6
8/19/92 8:10	174.91	7.6
8/20/92 17:00	176.28	7
8/20/92 17:00	176.28	7
8/20/92 17:05	176.28	7
8/20/92 17:05	176.28	7
8/20/92 17:05	176.28	7
8/20/92 17:05	176.28	7
8/21/92 8:00	176.90	7.4
8/21/92 8:00	176.90	7.4
8/21/92 8:05	176.91	7.4
8/21/92 8:05	176.91	7.4
8/21/92 13:30	177.13	7.4
8/21/92 13:30	177.13	7.4
8/22/92 9:30	177.97	7.2
8/22/92 9:30	177.97	7.2
8/22/92 9:35	177.97	7.2
8/22/92 9:35	177.97	7.2
8/22/92 9:35	177.97	7.2
8/23/92 10:00	178.99	7.3
8/23/92 10:00	178.99	7.3
8/23/92 10:05	178.99	7.3
8/23/92 10:05	178.99	7.3
8/24/92 8:16	179.91	7.4
8/24/92 8:16	179.91	7.4
8/24/92 8:21	179.92	7.4
8/24/92 8:21	179.92	7.4
8/24/92 8:21	179.92	7.4
8/24/92 13:30	180.13	7.4
8/24/92 13:30	180.13	7.4
8/25/92 8:50	180.94	7.2
8/25/92 8:50	180.94	7.2
8/25/92 9:00	180.94	7.2

DATE DAY IN. HG. VACUUM.XLS

8/25/92 9:00	180.94	7.2
8/25/92 14:00	181.15	7.1
8/25/92 14:00	181.15	7.1
8/26/92 8:30	181.92	7.6
8/26/92 8:30	181.92	7.6
8/26/92 8:35	181.93	7.6
8/26/92 8:35	181.93	7.6
8/26/92 8:35	181.93	7.6
8/26/92 13:30	182.13	7.2
8/26/92 13:30	182.13	7.2
8/27/92 8:00	182.90	7.5
8/27/92 8:00	182.90	7.5
8/27/92 8:05	182.91	7.5
8/27/92 8:05	182.91	7.5
8/27/92 13:30	183.13	7.2
8/27/92 13:30	183.13	7.2
8/27/92 13:30	183.13	7.2
8/28/92 8:30	183.92	7.5
8/28/92 8:30	183.92	7.5
8/28/92 8:35	183.93	7.5
8/28/92 8:35	183.93	7.5
8/28/92 13:00	184.11	7.5
8/28/92 13:00	184.11	7.5
8/28/92 13:00	184.11	7.5
8/29/92 9:00	184.94	7.6
8/29/92 9:00	184.94	7.6
8/29/92 9:05	184.95	7.6
8/29/92 9:05	184.95	7.6
8/30/92 9:00	185.94	7.6
8/30/92 9:00	185.94	7.6
8/30/92 9:05	185.95	7.6
8/30/92 9:05	185.95	7.6
8/31/92 8:30	186.92	7.6
8/31/92 8:30	186.92	7.6
8/31/92 8:35	186.93	7.6
8/31/92 8:35	186.93	7.6
8/31/92 13:00	187.11	7.6
8/31/92 13:00	187.11	7.6
9/1/92 21:25	188.46	7
9/1/92 21:25	188.46	7
9/1/92 21:30	188.47	7
9/1/92 21:30	188.47	7
9/2/92 9:31	188.97	7.1
9/2/92 9:31	188.97	7.1
9/2/92 9:31	188.97	7.1
9/2/92 9:31	188.97	7.1
9/2/91 9:36	-177.03	7.1
9/2/91 9:36	-177.03	7.1
9/2/91 13:30	-176.87	7.1
9/2/91 13:30	-176.87	7.1
9/3/92 8:00	189.90	7.2
9/3/92 8:00	189.90	7.2

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

3 of 7

DATE DAY IN. HG.

VACUUM.XLS

9/3/92 8:05	189.91	7.2
9/3/92 8:05	189.91	7.2
9/3/92 13:40	190.14	7.2
9/3/92 13:40	190.14	7.2
9/4/92 8:30	190.92	7.5
9/4/92 8:30	190.92	7.5
9/4/92 8:35	190.93	7.5
9/4/92 8:35	190.93	7.5
9/4/92 12:00	191.07	7.5
9/4/92 12:00	191.07	7.5
9/5/92 13:00	192.11	7.4
9/5/92 13:00	192.11	7.4
9/5/92 13:00	192.11	7.4
9/5/92 13:05	192.11	7.4
9/5/92 13:05	192.11	7.4
9/6/92 9:55	192.98	7.4
9/6/92 9:55	192.98	7.4
9/6/92 9:55	192.98	7.4
9/6/92 10:00	192.99	7.4
9/6/92 10:00	192.99	7.4
9/7/92 10:00	193.99	7.7
9/7/92 10:00	193.99	7.7
9/7/92 10:05	193.99	7.7
9/7/92 10:05	193.99	7.7
9/7/92 12:30	194.09	7.7
9/7/92 12:30	194.09	7.7
9/8/92 8:55	194.94	7.7
9/8/92 8:55	194.94	7.7
9/8/92 8:55	194.94	7.7
9/8/92 9:00	194.94	7.7
9/8/92 9:00	194.94	7.7
9/8/92 12:55	195.11	7.6
9/8/92 12:55	195.11	7.6
9/9/92 8:55	195.94	7.7
9/9/92 8:55	195.94	7.7
9/9/92 9:00	195.94	7.7
9/9/92 9:00	195.94	7.7
9/9/92 12:00	196.07	7.6
9/9/92 12:00	196.07	7.6
9/9/92 12:00	196.07	7.6
9/10/92 8:00	196.90	7.6
9/10/92 8:00	196.90	7.6
9/10/92 8:05	196.91	7.6
9/10/92 8:05	196.91	7.6
9/10/92 12:00	197.07	7.6
9/10/92 12:00	197.07	7.6
9/10/92 12:00	197.07	7.6
9/11/92 8:00	197.90	7.7
9/11/92 8:00	197.90	7.7
9/11/92 8:05	197.91	7.7
9/11/92 8:05	197.91	7.7
9/11/92 12:00	198.07	7.3

DATE DAY IN. HG. VACUUM.XLS

9/11/92 12:00	198.07	7.3
9/11/92 12:00	198.07	7.3
9/12/92 9:00	198.94	7.6
9/12/92 9:00	198.94	7.6
9/12/92 9:05	198.95	7.6
9/12/92 9:05	198.95	7.6
9/13/92 9:00	199.94	7.6
9/13/92 9:00	199.94	7.6
9/13/92 9:05	199.95	7.6
9/13/92 9:05	199.95	7.6
9/14/92 9:00	200.94	7.5
9/14/92 9:00	200.94	7.5
9/14/92 9:00	200.94	7.5
9/14/92 9:05	200.95	7.5
9/14/92 9:05	200.95	7.5
9/14/92 9:05	200.95	7.5
9/14/92 16:05	201.24	7.5
9/14/92 16:05	201.24	7.5
9/15/92 9:00	201.94	7.6
9/15/92 9:00	201.94	7.6
9/15/92 9:05	201.95	7.6
9/15/92 9:05	201.95	7.6
9/15/92 13:00	202.11	7.5
9/15/92 13:00	202.11	7.5
9/16/92 9:40	202.97	7.5
9/16/92 9:40	202.97	7.5
9/16/92 9:45	202.98	7.5
9/16/92 9:45	202.98	7.5
9/16/92 13:45	203.14	7.5
9/16/92 13:45	203.14	7.5
9/16/92 13:45	203.14	7.5
9/17/92 8:30	203.92	7.5
9/17/92 8:30	203.92	7.5
9/17/92 8:30	203.92	7.5
9/17/92 8:35	203.93	7.5
9/17/92 8:35	203.93	7.5
9/17/92 14:00	204.15	7.5
9/17/92 14:00	204.15	7.5
9/18/92 9:00	204.94	7.5
9/18/92 9:00	204.94	7.5
9/18/92 9:05	204.95	7.5
9/18/92 9:05	204.95	7.5
9/18/92 9:05	204.95	7.5
9/18/92 13:30	205.13	7.5
9/18/92 13:30	205.13	7.5
9/19/92 9:00	205.94	7.6
9/19/92 9:00	205.94	7.6
9/19/92 9:05	205.95	7.6
9/19/92 9:05	205.95	7.6
9/19/92 9:05	205.95	7.6
9/20/92 10:30	207.01	7.6
9/20/92 10:30	207.01	7.6

DATE DAY IN. HG.

VACUUM.XLS

9/20/90 10:35	-523.99	7.6
9/20/90 10:35	-523.99	7.6
9/21/92 10:00	207.99	7.8
9/21/92 10:00	207.99	7.8
9/21/92 10:05	207.99	7.8
9/21/92 10:05	207.99	7.8
9/21/92 14:00	208.15	7.6
9/21/92 14:00	208.15	7.6
9/22/92 8:30	208.92	7.6
9/22/92 8:30	208.92	7.6
9/22/92 8:30	208.92	7.6
9/22/92 8:35	208.93	7.6
9/22/92 8:35	208.93	7.6
9/22/92 8:35	208.93	7.6
9/22/92 13:00	209.11	7.6
9/22/92 13:00	209.11	7.6
9/23/92 8:30	209.92	7.6
9/23/92 8:30	209.92	7.6
9/23/92 8:35	209.93	7.6
9/23/92 8:35	209.93	7.6
9/23/92 13:00	210.11	7.6
9/23/92 13:00	210.11	7.6
9/24/92 8:15	210.91	7.7
9/24/92 8:15	210.91	7.7
9/24/92 8:20	210.92	7.7
9/24/92 8:20	210.92	7.7
9/24/92 13:00	211.11	7.7
9/24/92 13:00	211.11	7.7
9/24/92 13:00	211.11	7.7
9/27/92 8:30	213.92	7.2
9/27/92 8:30	213.92	7.2
9/27/92 8:35	213.93	7.2
9/27/92 8:35	213.93	7.2
9/28/92 8:00	214.90	9
9/28/92 8:00	214.90	9
9/28/92 8:05	214.91	9
9/28/92 8:05	214.91	9
9/28/92 13:00	215.11	8.8
9/28/92 13:00	215.11	8.8
9/29/92 8:30	215.92	8.8
9/29/92 8:30	215.92	8.8
9/29/92 8:30	215.92	8.8
9/29/92 8:35	215.93	8.8
9/29/92 8:35	215.93	8.8
9/29/92 14:30	216.17	8.7
9/29/92 14:30	216.17	8.7
10/1/92 9:30	217.97	7.5
10/1/92 9:30	217.97	7.5
10/1/92 9:35	217.97	7.5
10/1/92 9:35	217.97	7.5
10/1/92 14:00	218.15	7.4
10/1/92 14:00	218.15	7.4

DATE DAY IN. HG.

VACUUM.XLS

10/2/92 8:30	218.92	7.4
10/2/92 8:30	218.92	7.4
10/2/92 8:35	218.93	7.4
10/2/92 8:35	218.93	7.4
10/2/92 13:00	219.11	7.4
10/2/92 13:00	219.11	7.4
10/2/92 13:00	219.11	7.4
10/3/92 9:30	219.97	7.4
10/3/92 9:30	219.97	7.4
10/3/92 9:35	219.97	7.4
10/3/92 9:35	219.97	7.4
10/4/92 8:28	220.92	7.8
10/4/92 8:28	220.92	7.8
10/4/92 8:28	220.92	7.8
10/4/92 8:30	220.92	7.8
10/4/92 8:30	220.92	7.8
10/5/92 8:30	221.92	8
10/5/92 8:30	221.92	8
10/5/92 8:35	221.93	8
10/5/92 8:35	221.93	8
10/5/92 13:30	222.13	8.1
10/5/92 13:30	222.13	8.1
10/6/92 9:00	222.94	8.1
10/6/92 9:00	222.94	8.1
10/6/92 9:00	222.94	8.1
10/6/92 9:05	222.95	8.1
10/6/92 9:05	222.95	8.1
10/6/92 13:30	223.13	8
10/6/92 13:30	223.13	8
10/7/92 9:00	223.94	8
10/7/92 9:00	223.94	8
10/7/92 9:05	223.95	8
10/7/92 9:05	223.95	8
10/7/92 13:30	224.13	7.9
10/7/92 13:30	224.13	7.9
10/7/92 13:30	224.13	7.9
10/8/92 9:30	224.97	7.9
10/8/92 9:30	224.97	7.9
10/8/92 9:35	224.97	7.9
10/8/92 9:35	224.97	7.9
10/8/92 14:00	225.15	7.9
10/8/92 14:00	225.15	7.9
10/9/92 9:00	225.94	8.8
10/9/92 9:00	225.94	8.8
10/9/92 9:05	225.95	8.8
10/9/92 9:05	225.95	8.8
10/9/92 13:30	226.13	7.8
10/9/92 13:30	226.13	7.8
10/10/92 10:30	227.01	7.9
10/10/92 10:30	227.01	7.9
10/10/92 10:35	227.01	7.9
10/10/92 10:35	227.01	7.9

DATE DAY IN. HG.

VACUUM.XLS

10/11/92 9:30	227.97	7.7
10/11/92 9:30	227.97	7.7
10/11/92 9:35	227.97	7.7
10/11/92 9:35	227.97	7.7
10/15/92 10:00	231.99	7.6
10/15/92 10:00	231.99	7.6
10/15/92 10:05	231.99	7.6
10/15/92 10:05	231.99	7.6
10/15/92 13:00	232.11	7.6
10/15/92 13:00	232.11	7.6
10/15/92 13:00	232.11	7.6
10/15/92 13:00	232.11	7.6
10/16/92 9:00	232.94	7.9
10/16/92 9:00	232.94	7.9
10/16/92 9:05	232.95	7.9
10/16/92 9:05	232.95	7.9
10/16/92 13:00	233.11	7.9
10/16/92 13:00	233.11	7.9
10/17/92 9:23	233.96	7.2
10/17/92 9:23	233.96	7.2
10/17/92 9:27	233.96	7.2
10/17/92 9:27	233.96	7.2
10/18/92 9:30	234.97	7.9
10/18/92 9:30	234.97	7.9
10/18/92 9:35	234.97	7.9
10/18/92 9:35	234.97	7.9
10/19/92 9:30	235.97	7.9
10/19/92 9:30	235.97	7.9
10/19/92 9:30	235.97	7.9
10/19/92 9:35	235.97	7.9
10/19/92 9:35	235.97	7.9
10/19/92 13:30	236.13	7.4
10/19/92 13:30	236.13	7.4
10/19/92 13:30	236.13	7.4
10/20/92 9:30	236.97	8.4
10/20/92 9:30	236.97	8.4
10/20/92 9:35	236.97	8.4
10/20/92 9:35	236.97	8.4
10/20/92 13:30	237.13	8.4
10/20/92 13:30	237.13	8.4
10/21/92 9:30	237.97	8.3
10/21/92 9:30	237.97	8.3
10/21/92 9:35	237.97	8.3
10/21/92 9:35	237.97	8.3
10/21/92 13:00	238.11	8.3
10/21/92 13:00	238.11	8.3
10/22/92 9:00	238.94	8.4
10/22/92 9:00	238.94	8.4
10/22/92 9:05	238.95	8.4
10/22/92 9:05	238.95	8.4
10/22/92 9:05	238.95	8.4
10/22/92 12:00	239.07	8.4

DATE DAY IN. HG.

VACUUM.XLS

10/22/92 12:00	239.07	8.4
10/22/92 12:00	239.07	8.4
10/23/92 9:30	239.97	8.4
10/23/92 9:30	239.97	8.4
10/23/92 9:35	239.97	8.4
10/23/92 9:35	239.97	8.4
10/23/92 14:00	240.15	8.4
10/23/92 14:00	240.15	8.4
10/24/92 10:30	241.01	8.4
10/24/92 10:30	241.01	8.4
10/24/92 10:35	241.01	8.4
10/24/92 10:35	241.01	8.4
10/24/92 17:00	241.28	8.4
10/25/92 9:07	241.95	8.4
10/25/92 9:07	241.95	8.4
10/25/92 9:07	241.95	8.4
10/25/92 9:09	241.95	8.4
10/25/92 9:09	241.95	8.4
10/25/92 15:00	242.19	8.4
10/26/92 9:00	242.94	8.6
10/26/92 9:00	242.94	8.6
10/26/92 9:05	242.95	8.6
10/26/92 9:05	242.95	8.6
10/26/92 15:00	243.19	8.7
10/26/92 15:00	243.19	8.7
10/27/92 9:00	243.94	8.8
10/27/92 9:00	243.94	8.8
10/27/92 9:05	243.95	8.8
10/27/92 9:05	243.95	8.8
10/27/92 9:05	243.95	8.8
10/27/92 14:30	244.17	8.7
10/27/92 14:30	244.17	8.7
10/28/92 9:07	244.95	8.8
10/28/92 9:07	244.95	8.8
10/28/92 9:09	244.95	8.8
10/28/92 9:09	244.95	8.8
10/28/92 13:30	245.13	8.8
10/28/92 13:30	245.13	8.8
10/28/92 13:30	245.13	8.8
10/29/92 9:00	245.94	8.8
10/29/92 9:00	245.94	8.8
10/29/92 9:00	245.94	8.8
10/29/92 9:05	245.95	8.8
10/29/92 9:05	245.95	8.8
10/29/92 13:00	246.11	8.8
10/29/92 13:00	246.11	8.8
10/30/92 10:25	247.00	8.4
10/30/92 10:25	247.00	8.4
10/30/92 10:32	247.01	8.4
10/30/92 10:32	247.01	8.4
10/30/92 18:00	247.32	8.6
10/30/92 18:00	247.32	8.6

DATE DAY IN. HG.

VACUUM.XLS

10/31/92 11:00	248.03	8.8
10/31/92 11:00	248.03	8.8
10/31/92 11:00	248.03	8.8
10/31/92 11:05	248.03	8.8
10/31/92 11:05	248.03	8.8
11/1/92 14:00	249.15	8.8
11/1/92 14:00	249.15	8.8
11/1/92 14:05	249.16	8.8
11/1/92 14:05	249.16	8.8
11/1/92 14:05	249.16	8.8
11/2/92 10:00	249.99	8.8
11/2/92 10:00	249.99	8.8
11/2/92 10:05	249.99	8.8
11/2/92 10:05	249.99	8.8
11/2/92 15:00	250.19	8.8
11/2/92 15:00	250.19	8.8
11/3/92 9:30	250.97	8.9
11/3/92 9:30	250.97	8.9
11/3/92 9:35	250.97	8.9
11/3/92 9:35	250.97	8.9
11/3/92 17:30	251.30	8.9
11/3/92 17:30	251.30	8.9
11/4/92 9:33	251.97	8.9
11/4/92 9:33	251.97	8.9
11/4/92 9:33	251.97	8.9
11/4/92 9:36	251.97	8.9
11/4/92 9:36	251.97	8.9
11/4/92 14:00	252.15	8.9
11/4/92 14:00	252.15	8.9
11/5/92 9:30	252.97	9.2
11/5/92 9:30	252.97	9.2
11/5/92 9:30	252.97	9.2
11/5/92 9:35	252.97	9.2
11/5/92 9:35	252.97	9.2
11/5/92 13:00	253.11	9.3
11/5/92 13:00	253.11	9.3
11/6/92 9:30	253.97	9.3
11/6/92 9:30	253.97	9.3
11/6/92 9:30	253.97	9.3
11/6/92 9:35	253.97	9.3
11/6/92 9:35	253.97	9.3
11/6/92 14:00	254.15	9.3
11/6/92 14:00	254.15	9.3
11/7/92 9:30	254.97	9.4
11/7/92 9:30	254.97	9.4
11/7/92 9:35	254.97	9.4
11/7/92 9:35	254.97	9.4
11/8/92 10:30	256.01	9.4
11/8/92 10:30	256.01	9.4
11/8/92 10:30	256.01	9.4
11/8/92 10:30	256.01	9.4
11/8/92 10:33	256.01	9.4

DATE DAY IN. HG.

VACUUM.XLS

11/9/92 9:30	256.97	9.6
11/9/92 9:30	256.97	9.6
11/9/92 9:35	256.97	9.6
11/9/92 9:35	256.97	9.6
11/9/92 13:30	257.13	9.4
11/9/92 13:30	257.13	9.4
11/10/92 10:00	257.99	9.4
11/10/92 10:00	257.99	9.4
11/10/92 10:05	257.99	9.4
11/10/92 10:05	257.99	9.4
11/10/92 14:00	258.15	9.2
11/10/92 14:00	258.15	9.2
11/11/92 19:32	259.38	8
11/11/92 19:32	259.38	8
11/11/92 19:34	259.38	8
11/11/92 19:34	259.38	8
11/12/92 9:30	259.97	8.3
11/12/92 9:30	259.97	8.3
11/12/92 9:30	259.97	8.3
11/12/92 9:30	259.97	8.3
11/12/92 9:35	259.97	8.3
11/12/92 9:35	259.97	8.3
11/12/92 13:00	260.11	9.5
11/12/92 13:00	260.11	9.5
11/13/92 9:30	260.97	9.5
11/13/92 9:30	260.97	9.5
11/13/92 9:35	260.97	9.5
11/13/92 9:35	260.97	9.5
11/13/92 13:00	261.11	9.5
11/13/92 13:00	261.11	9.5
11/14/92 15:00	262.19	9.5
11/14/92 15:00	262.19	9.5
11/14/92 15:05	262.20	9.5
11/14/92 15:05	262.20	9.5
11/15/92 13:00	263.11	9.2
11/15/92 13:00	263.11	9.2
11/15/92 13:05	263.11	9.2
11/15/92 13:05	263.11	9.2
11/16/92 9:30	263.97	9.4
11/16/92 9:30	263.97	9.4
11/16/92 9:35	263.97	9.4
11/16/92 9:35	263.97	9.4
11/16/92 13:00	264.11	9.4
11/16/92 13:00	264.11	9.4
11/17/92 10:00	264.99	9.4
11/17/92 10:00	264.99	9.4
11/17/92 10:00	264.99	9.4
11/17/92 10:00	264.99	9.4
11/17/92 10:05	264.99	9.4
11/17/92 10:05	264.99	9.4
11/17/92 14:30	265.17	9.2
11/17/92 14:30	265.17	9.2

DATE DAY IN. HG.

VACUUM.XLS

11/18/92 9:00	265.94	9.3
11/18/92 9:00	265.94	9.3
11/18/92 9:05	265.95	9.3
11/18/92 9:05	265.95	9.3
11/18/92 13:00	266.11	9.2
11/18/92 13:00	266.11	9.2
11/19/92 9:00	266.94	9.4
11/19/92 9:00	266.94	9.4
11/19/92 9:05	266.95	9.4
11/19/92 9:05	266.95	9.4
11/19/92 13:00	267.11	9.3
11/19/92 13:00	267.11	9.3
11/20/92 10:00	267.99	9.4
11/20/92 10:00	267.99	9.4
11/20/92 10:05	267.99	9.4
11/20/92 10:05	267.99	9.4
11/20/92 14:00	268.15	9.3
11/20/92 14:00	268.15	9.3
11/21/92 12:00	269.07	9.4
11/21/92 12:00	269.07	9.4
11/21/92 12:00	269.07	9.4
11/21/92 12:00	269.07	9.4
11/21/92 12:05	269.07	9.4
11/21/92 12:05	269.07	9.4
11/22/92 12:00	270.07	9.8
11/22/92 12:00	270.07	9.8
11/22/92 12:05	270.07	9.8
11/22/92 12:05	270.07	9.8
11/23/92 9:30	270.97	11.4
11/23/92 9:30	270.97	11.4
11/23/92 9:35	270.97	11.4
11/23/92 9:35	270.97	11.4
11/23/92 13:00	271.11	11.4
11/23/92 13:00	271.11	11.4
11/24/92 9:30	271.97	11
11/24/92 9:30	271.97	11
11/24/92 9:35	271.97	11
11/24/92 9:35	271.97	11
11/24/92 13:00	272.11	11
11/24/92 13:00	272.11	11
11/25/92 9:30	272.97	11.2
11/25/92 9:30	272.97	11.2
11/25/92 9:30	272.97	11.2
11/25/92 9:30	272.97	11.2
11/25/92 9:33	272.97	11.2
11/25/92 9:33	272.97	11.2
11/25/92 12:30	273.09	11.1
11/25/92 12:30	273.09	11.1
11/27/92 9:00	274.94	11.1
11/27/92 9:00	274.94	11.1
11/27/92 9:03	274.95	11.1
11/27/92 9:03	274.95	11.1

DATE	DAY	IN. HG.	VACUUM.XLS
11/27/92 13:00	275.11	11.1	
11/27/92 13:00	275.11	11.1	
11/28/92 16:00	276.24	11	
11/28/92 16:00	276.24	11	
11/28/92 16:00	276.24	11	
11/28/92 16:03	276.24	11	
11/28/92 16:03	276.24	11	
11/28/92 16:03	276.24	11	
11/29/92 12:00	277.07	11.2	
11/29/92 12:00	277.07	11.2	
11/29/92 12:03	277.07	11.2	
11/29/92 12:03	277.07	11.2	
11/30/92 9:30	277.97	11.2	
11/30/92 9:30	277.97	11.2	
11/30/92 9:35	277.97	11.2	
11/30/92 9:35	277.97	11.2	
11/30/92 14:00	278.15	11	
11/30/92 14:00	278.15	11	
11/30/92 14:00	278.15	11	
12/1/92 9:30	278.97	11	
12/1/92 9:30	278.97	11	
12/1/92 9:30	278.97	11	
12/1/92 9:35	278.97	11	
12/1/92 9:35	278.97	11	
12/1/92 14:00	279.15	11	
12/1/92 14:00	279.15	11	
12/4/92 10:30	282.01	9.2	
12/4/92 10:30	282.01	9.2	
12/4/92 10:33	282.01	9.2	
12/4/92 10:33	282.01	9.2	
12/4/92 15:30	282.22	9.2	
12/4/92 15:30	282.22	9.2	
12/5/92 11:03	283.03	9.6	
12/5/92 11:03	283.03	9.6	
12/5/92 11:03	283.03	9.6	
12/5/92 11:05	283.03	9.6	
12/5/92 11:05	283.03	9.6	
12/6/92 18:00	284.32	10.1	
12/6/92 18:00	284.32	10.1	
12/6/92 18:03	284.32	10.1	
12/6/92 18:03	284.32	10.1	
12/7/92 10:30	285.01	10.1	
12/7/92 10:30	285.01	10.1	
12/7/92 10:33	285.01	10.1	
12/7/92 10:33	285.01	10.1	
12/7/92 10:33	285.01	10.1	
12/7/92 15:00	285.19	10.1	
12/7/92 15:00	285.19	10.1	
12/7/92 15:00	285.19	10.1	
12/8/92 10:00	285.99	10.1	
12/8/92 10:00	285.99	10.1	
12/8/92 10:03	285.99	10.1	

DATE DAY IN. HG.

VACUUM.XLS

12/8/92	10:03	285.99	10.1
12/8/92	14:00	286.15	10.1
12/8/92	14:00	286.15	10.1
12/9/92	9:30	286.97	9.4
12/9/92	9:30	286.97	9.4
12/9/92	9:33	286.97	9.4
12/9/92	9:33	286.97	9.4
12/9/92	13:30	287.13	9.4
12/9/92	13:30	287.13	9.4
12/9/92	13:30	287.13	9.4
12/10/92	8:30	287.92	9.4
12/10/92	8:30	287.92	9.4
12/10/92	8:30	287.92	9.4
12/10/92	8:33	287.93	9.4
12/10/92	8:33	287.93	9.4
12/10/92	14:00	288.15	9.4
12/10/92	14:00	288.15	9.4
12/11/92	9:00	288.94	9.4
12/11/92	9:00	288.94	9.4
12/11/92	9:03	288.95	9.4
12/11/92	9:03	288.95	9.4
12/11/92	13:30	289.13	9.5
12/11/92	13:30	289.13	9.5
12/12/92	12:00	290.07	9.8
12/12/92	12:00	290.07	9.8
12/12/92	12:00	290.07	9.8
12/12/92	12:03	290.07	9.8
12/12/92	12:03	290.07	9.8
12/14/92	10:00	291.99	9
12/14/92	10:00	291.99	9
12/14/92	10:03	291.99	9
12/14/92	10:03	291.99	9
12/14/92	15:00	292.19	9
12/14/92	15:00	292.19	9
12/15/92	9:30	292.97	9.5
12/15/92	9:30	292.97	9.5
12/15/92	9:33	292.97	9.5
12/15/92	9:33	292.97	9.5
12/15/92	9:33	292.97	9.5
12/15/92	13:30	293.13	9.5
12/15/92	13:30	293.13	9.5
12/16/92	9:00	293.94	9.1
12/16/92	9:00	293.94	9.1
12/16/92	9:05	293.95	9.1
12/16/92	9:05	293.95	9.1
12/16/92	14:00	294.15	9.1
12/16/92	14:00	294.15	9.1
12/16/92	14:00	294.15	9.1
12/17/92	9:00	294.94	9.4
12/17/92	9:00	294.94	9.4
12/17/92	9:03	294.95	9.4
12/17/92	9:03	294.95	9.4

DATE DAY IN. HG.

VACUUM.XLS

12/17/92 13:00	295.11	9.4
12/17/92 13:00	295.11	9.4
12/18/92 9:30	295.97	9.9
12/18/92 9:30	295.97	9.9
12/18/92 9:33	295.97	9.9
12/18/92 9:33	295.97	9.9
12/18/92 13:00	296.11	9.6
12/18/92 13:00	296.11	9.6
12/19/92 17:30	297.30	9.9
12/19/92 17:30	297.30	9.9
12/19/92 17:30	297.30	9.9
12/19/92 17:33	297.30	9.9
12/19/92 17:33	297.30	9.9
12/20/92 10:30	298.01	10
12/20/92 10:30	298.01	10
12/20/92 10:35	298.01	10
12/20/92 10:35	298.01	10
12/21/92 10:00	298.99	10.2
12/21/92 10:00	298.99	10.2
12/21/92 10:05	298.99	10.2
12/21/92 10:05	298.99	10.2
12/21/92 14:30	299.17	9.4
12/21/92 14:30	299.17	9.4
12/22/92 10:00	299.99	9.8
12/22/92 10:00	299.99	9.8
12/22/92 10:05	299.99	9.8
12/22/92 10:05	299.99	9.8
12/22/92 13:30	300.13	9.7
12/22/92 13:30	300.13	9.7
12/22/92 13:30	300.13	9.7
12/23/92 9:00	300.94	9.8
12/23/92 9:00	300.94	9.8
12/23/92 9:00	300.94	9.8
12/23/92 9:05	300.95	9.8
12/23/92 9:05	300.95	9.8
12/23/92 9:05	300.95	9.8
12/23/92 14:00	301.15	9.7
12/23/92 14:00	301.15	9.7
12/24/92 10:30	302.01	9.9
12/24/92 10:30	302.01	9.9
12/24/92 10:35	302.01	9.9
12/24/92 10:35	302.01	9.9
12/24/92 12:30	302.09	10
12/24/92 12:30	302.09	10
12/26/92 13:00	304.11	10.2
12/26/92 13:00	304.11	10.2
12/26/92 13:00	304.11	10.2
12/26/92 13:00	304.11	10.2
12/27/92 12:30	305.09	10.2
12/27/92 12:30	305.09	10.2
12/28/92 16:30	306.26	9
12/28/92 16:30	306.26	9

DATE DAY IN. HG.

VACUUM.XLS

12/28/92	16:35	306.26	9
12/28/92	16:35	306.26	9
12/29/92	11:00	307.03	9.1
12/29/92	11:00	307.03	9.1
12/29/92	11:03	307.03	9.1
12/29/92	11:03	307.03	9.1
12/29/92	14:00	307.15	9
12/29/92	14:00	307.15	9
12/30/92	10:00	307.99	9.4
12/30/92	10:00	307.99	9.4
12/30/92	10:00	307.99	9.4
12/30/92	10:05	307.99	9.4
12/30/92	10:05	307.99	9.4
12/30/92	14:30	308.17	9.4
12/30/92	14:30	308.17	9.4
12/31/92	11:00	309.03	9.7
12/31/92	11:00	309.03	9.7
12/31/92	11:00	309.03	9.7
12/31/92	11:05	309.03	9.7
12/31/92	11:05	309.03	9.7
12/31/92	12:00	309.07	9.7
12/31/92	12:00	309.07	9.7
1/2/93	12:00	311.07	10.2
1/2/93	12:00	311.07	10.2
1/2/93	12:00	311.07	10.2
1/2/93	12:03	311.07	10.2
1/2/93	12:03	311.07	10.2
1/3/93	15:00	312.19	10.1
1/3/93	15:00	312.19	10.1
1/3/93	15:03	312.20	10.1
1/3/93	15:03	312.20	10.1
1/4/93	10:30	313.01	10.1
1/4/93	10:30	313.01	10.1
1/4/93	10:33	313.01	10.1
1/4/93	10:33	313.01	10.1
1/4/93	14:30	313.17	10
1/4/93	14:30	313.17	10
1/5/93	9:30	313.97	10
1/5/93	9:30	313.97	10
1/5/93	9:35	313.97	10
1/5/93	9:35	313.97	10
1/5/93	9:35	313.97	10
1/5/93	14:00	314.15	10
1/5/93	14:00	314.15	10
1/5/93	9:30	314.97	10.7
1/6/93	9:30	314.97	10.7
1/6/93	9:30	314.97	10.7
1/6/93	9:35	314.97	10.7
1/6/93	9:35	314.97	10.7
1/6/93	14:30	315.17	10.6
1/6/93	14:30	315.17	10.6
1/7/93	10:00	315.99	10.8

DATE DAY IN. HG.

VACUUM.XLS

1/7/93 10:00	315.99	10.8
1/7/93 10:03	315.99	10.8
1/7/93 10:03	315.99	10.8
1/7/93 13:30	316.13	10.9
1/7/93 13:30	316.13	10.9
1/8/93 9:30	316.97	12.8
1/8/93 9:30	316.97	12.8
1/8/93 9:35	316.97	12.8
1/8/93 9:35	316.97	12.8
1/8/93 9:35	316.97	12.8
1/8/93 13:30	317.13	9.4
1/8/93 13:30	317.13	9.4
1/9/93 12:00	318.07	9.6
1/9/93 12:00	318.07	9.6
1/9/93 12:03	318.07	9.6
1/9/93 12:03	318.07	9.6
1/10/93 14:30	319.17	10
1/10/93 14:30	319.17	10
1/10/93 14:30	319.17	10
1/10/93 14:35	319.18	10
1/10/93 14:35	319.18	10
1/11/93 11:00	320.03	10
1/11/93 11:00	320.03	10
1/11/93 11:05	320.03	10
1/11/93 11:05	320.03	10
1/11/93 14:30	320.17	10
1/11/93 14:30	320.17	10
1/12/93 11:30	321.05	10
1/12/93 11:30	321.05	10
1/12/93 11:30	321.05	10
1/12/93 11:35	321.05	10
1/12/93 11:35	321.05	10
1/12/93 14:30	321.17	10
1/12/93 14:30	321.17	10
1/13/93 8:30	321.92	10
1/13/93 8:30	321.92	10
1/13/93 8:33	321.93	10
1/13/93 8:33	321.93	10
1/14/93 10:30	323.01	10
1/14/93 10:30	323.01	10
1/14/93 10:30	323.01	10
1/14/93 10:35	323.01	10
1/14/93 10:35	323.01	10
1/15/93 10:30	324.01	10
1/15/93 10:30	324.01	10
1/15/93 10:35	324.01	10
1/15/93 10:35	324.01	10
1/26/93 16:00	335.24	8
1/26/93 16:00	335.24	8
1/26/93 16:00	335.24	8
1/26/93 16:03	335.24	8
1/26/93 16:03	335.24	8

DATE DAY IN. HG.

VACUUM.XLS

1/27/93 10:30	336.01	8.3
1/27/93 10:30	336.01	8.3
1/27/93 10:33	336.01	8.3
1/27/93 10:33	336.01	8.3
1/28/93 9:30	336.97	8.9
1/28/93 9:30	336.97	8.9
1/28/93 9:30	336.97	8.9
1/28/93 9:33	336.97	8.9
1/28/93 9:33	336.97	8.9
1/29/93 8:30	337.92	8.8
1/29/93 8:30	337.92	8.8
1/29/93 8:30	337.92	8.8
1/29/93 8:35	337.93	8.8
1/29/93 8:35	337.93	8.8
1/31/93 11:00	340.03	9
1/31/93 11:00	340.03	9
1/31/93 11:03	340.03	9
1/31/93 11:03	340.03	9
2/1/93 10:30	341.01	8.9
2/1/93 10:30	341.01	8.9
2/1/93 10:33	341.01	8.9
2/1/93 10:33	341.01	8.9
2/1/93 13:30	341.13	9
2/1/93 13:30	341.13	9
2/1/93 13:30	341.13	9
2/2/93 9:15	341.95	9.6
2/2/93 9:15	341.95	9.6
2/2/93 9:17	341.96	9.6
2/2/93 9:17	341.96	9.6
2/2/93 14:00	342.15	9.4
2/2/93 14:00	342.15	9.4
2/2/93 14:00	342.15	9.4
2/3/93 9:30	342.97	9.4
2/3/93 9:30	342.97	9.4
2/3/93 9:35	342.97	9.4
2/3/93 9:35	342.97	9.4
2/3/93 15:00	343.19	9.4
2/3/93 15:00	343.19	9.4
2/4/93 10:00	343.99	9.4
2/4/93 10:00	343.99	9.4
2/4/93 10:00	343.99	9.4
2/4/93 10:03	343.99	9.4
2/4/93 10:03	343.99	9.4
2/4/93 15:00	344.19	9.4
2/4/93 15:00	344.19	9.4
2/5/93 10:00	344.99	9.4
2/5/93 10:00	344.99	9.4
2/5/93 10:03	344.99	9.4
2/5/93 10:03	344.99	9.4
2/5/93 15:30	345.22	9.4
2/5/93 15:30	345.22	9.4
2/5/93 15:30	345.22	9.4

DATE DAY IN. HG.

VACUUM.XLS

2/7/93 15:00	347.19	9
2/7/93 15:00	347.19	9
2/7/93 15:03	347.20	9
2/7/93 15:03	347.20	9
2/8/93 10:30	348.01	9.4
2/8/93 10:30	348.01	9.4
2/8/93 10:30	348.01	9.4
2/8/93 10:33	348.01	9.4
2/8/93 10:33	348.01	9.4
2/8/93 15:00	348.19	9
2/8/93 15:00	348.19	9
2/9/93 10:30	349.01	9.4
2/9/93 10:30	349.01	9.4
2/9/93 10:33	349.01	9.4
2/9/93 10:33	349.01	9.4
2/10/93 13:00	350.11	9.4
2/10/93 13:00	350.11	9.4
2/10/93 13:05	350.11	9.4
2/10/93 13:05	350.11	9.4
2/11/93 9:00	350.94	9.4
2/11/93 9:00	350.94	9.4
2/11/93 9:00	350.94	9.4
2/11/93 9:03	350.95	9.4
2/11/93 9:03	350.95	9.4
2/11/93 14:00	351.15	9.4
2/11/93 14:00	351.15	9.4
2/12/93 10:00	351.99	9.4
2/12/93 10:00	351.99	9.4
2/12/93 10:03	351.99	9.4
2/12/93 10:03	351.99	9.4
2/12/93 16:00	352.24	9.3
2/12/93 16:00	352.24	9.3
2/13/93 11:30	353.05	9.6
2/13/93 11:30	353.05	9.6
2/13/93 11:33	353.05	9.6
2/13/93 11:33	353.05	9.6
2/14/93 19:00	354.36	9.7
2/14/93 19:00	354.36	9.7
2/14/93 19:03	354.36	9.7
2/14/93 19:03	354.36	9.7
2/15/93 9:00	354.94	9.9
2/15/93 9:00	354.94	9.9
2/15/93 9:00	354.94	9.9
2/15/93 9:00	354.94	9.9
2/15/93 9:03	354.95	9.9
2/15/93 9:03	354.95	9.9
2/15/93 14:30	355.17	9.9
2/15/93 14:30	355.17	9.9
2/16/93 9:00	355.94	9.6
2/16/93 9:00	355.94	9.6
2/16/93 9:05	355.95	9.6
2/16/93 9:05	355.95	9.6

DATE DAY IN. HG.

VACUUM.XLS

2/16/93 14:30	356.17	9.6
2/16/93 14:30	356.17	9.6
2/17/93 9:00	356.94	9.9
2/17/93 9:00	356.94	9.9
2/17/93 9:05	356.95	9.9
2/17/93 9:05	356.95	9.9
2/17/93 15:00	357.19	9.8
2/17/93 15:00	357.19	9.8
2/18/93 10:00	357.99	9.8
2/18/93 10:00	357.99	9.8
2/18/93 10:05	357.99	9.8
2/18/93 10:05	357.99	9.8
2/18/93 10:05	357.99	9.8
2/18/93 10:05	357.99	9.8
2/18/93 14:00	358.15	9.8
2/18/93 14:00	358.15	9.8
2/19/93 9:30	358.97	10
2/19/93 9:30	358.97	10
2/19/93 9:35	358.97	10
2/19/93 9:35	358.97	10
2/19/93 14:00	359.15	9.4
2/19/93 14:00	359.15	9.4
2/19/93 14:00	359.15	9.4
2/24/93 11:00	364.03	9.9
2/24/93 11:00	364.03	9.9
2/24/93 11:05	364.03	9.9
2/24/93 11:05	364.03	9.9
2/24/93 15:50	364.23	9.9
2/24/93 15:50	364.23	9.9
2/25/93 9:30	364.97	10
2/25/93 9:30	364.97	10
2/25/93 9:33	364.97	10
2/25/93 9:33	364.97	10
2/25/93 9:33	364.97	10
2/25/93 13:55	365.15	10
2/25/93 13:55	365.15	10
2/25/93 13:55	365.15	10
2/26/93 9:30	365.97	10
2/26/93 9:30	365.97	10
2/26/93 9:35	365.97	10
2/26/93 9:35	365.97	10
2/26/93 13:30	366.13	9.9
2/26/93 13:30	366.13	9.9
2/27/93 13:00	367.11	10.2
2/27/93 13:00	367.11	10.2
2/27/93 13:03	367.11	10.2
2/27/93 13:03	367.11	10.2
2/27/93 13:03	367.11	10.2
2/28/93 10:00	367.99	10.3
2/28/93 10:00	367.99	10.3
2/28/93 10:00	367.99	10.3
2/28/93 10:05	367.99	10.3

DATE DAY IN. HG.

VACUUM.XLS

2/28/93 10:05	367.99	10.3
2/28/93 15:45	368.23	10.2
2/28/93 15:45	368.23	10.2
3/1/93 10:00	368.99	10.3
3/1/93 10:00	368.99	10.3
3/1/93 10:05	368.99	10.3
3/1/93 10:05	368.99	10.3
3/1/93 15:00	369.19	10.3
3/1/93 15:00	369.19	10.3
3/2/93 8:30	369.92	10.3
3/2/93 8:30	369.92	10.3
3/2/93 8:35	369.93	10.3
3/2/93 8:35	369.93	10.3
3/2/93 15:00	370.19	10.2
3/2/93 15:00	370.19	10.2
3/3/93 10:00	370.99	10
3/3/93 10:00	370.99	10
3/3/93 10:05	370.99	10
3/3/93 10:05	370.99	10
3/3/93 10:05	370.99	10
3/3/93 14:00	371.15	10.1
3/3/93 14:00	371.15	10.1
3/3/93 14:00	371.15	10.1
3/4/93 10:00	371.99	10.2
3/4/93 10:00	371.99	10.2
3/4/93 10:05	371.99	10.2
3/4/93 10:05	371.99	10.2
3/4/93 13:30	372.13	10.2
3/4/93 13:30	372.13	10.2
3/4/93 17:00	372.28	10.2
3/5/93 9:30	372.97	10.5
3/5/93 9:30	372.97	10.5
3/5/93 9:35	372.97	10.5
3/5/93 9:35	372.97	10.5
3/5/93 9:35	372.97	10.5
3/5/93 14:30	373.17	10.2
3/5/93 14:30	373.17	10.2
3/5/93 14:30	373.17	10.2
3/6/93 10:00	373.99	10
3/6/93 10:00	373.99	10
3/6/93 10:00	373.99	10
3/6/93 10:03	373.99	10
3/6/93 10:03	373.99	10
3/6/93 16:30	374.26	9.8
3/6/93 16:30	374.26	9.8
3/7/93 13:00	375.11	9.9
3/7/93 13:00	375.11	9.9
3/7/93 13:03	375.11	9.9
3/7/93 13:03	375.11	9.9
3/8/93 10:30	376.01	9.9
3/8/93 10:30	376.01	9.9
3/8/93 10:35	376.01	9.9

DATE DAY IN. HG.

VACUUM.XLS

3/8/93 10:35	376.01	9.9
3/8/93 16:00	376.24	9.8
3/8/93 16:00	376.24	9.8
3/9/93 10:00	376.99	9.9
3/9/93 10:00	376.99	9.9
3/9/93 10:05	376.99	9.9
3/9/93 10:05	376.99	9.9
3/9/93 10:05	376.99	9.9
3/9/93 14:00	377.15	9.9
3/9/93 14:00	377.15	9.9
3/9/93 14:00	377.15	9.9
3/10/93 9:30	377.97	10
3/10/93 9:30	377.97	10
3/10/93 9:33	377.97	10
3/10/93 9:33	377.97	10
3/10/93 13:00	378.11	9.4
3/10/93 13:00	378.11	9.4
3/11/93 8:00	378.90	9.9
3/11/93 8:00	378.90	9.9
3/11/93 8:03	378.90	9.9
3/11/93 8:03	378.90	9.9
3/11/93 12:00	379.07	9.9
3/11/93 12:00	379.07	9.9
3/12/93 10:00	379.99	10.1
3/12/93 10:00	379.99	10.1
3/12/93 10:00	379.99	10.1
3/12/93 10:00	379.99	10.1
3/12/93 10:05	379.99	10.1
3/12/93 10:05	379.99	10.1
3/12/93 14:00	380.15	10
3/12/93 14:00	380.15	10
3/13/93 13:00	381.11	9.9
3/13/93 13:00	381.11	9.9
3/13/93 13:03	381.11	9.9
3/13/93 13:03	381.11	9.9
3/13/93 13:03	381.11	9.9
3/14/93 15:00	382.19	9.5
3/14/93 15:00	382.19	9.5
3/14/93 15:03	382.20	9.5
3/14/93 15:03	382.20	9.5
3/14/93 15:03	382.20	9.5
3/15/93 14:00	383.15	10.3
3/15/93 14:00	383.15	10.3
3/15/93 14:05	383.16	10.3
3/15/93 14:05	383.16	10.3
3/16/93 9:30	383.97	10.3
3/16/93 9:30	383.97	10.3
3/16/93 9:33	383.97	10.3
3/16/93 9:33	383.97	10.3
3/16/93 15:30	384.22	10.1
3/16/93 15:30	384.22	10.1
3/17/93 9:00	384.94	10.1

DATE DAY IN. HG. _

VACUUM.XLS

3/17/93 9:00	384.94	10.1
3/17/93 9:03	384.95	10.1
3/17/93 9:03	384.95	10.1
3/17/93 13:00	385.11	10
3/17/93 13:00	385.11	10
3/17/93 13:00	385.11	10
3/18/93 9:00	385.94	10
3/18/93 9:00	385.94	10
3/18/93 9:03	385.95	10
3/18/93 9:03	385.95	10
3/18/93 9:03	385.95	10
3/18/93 13:00	386.11	10
3/18/93 13:00	386.11	10
3/19/93 10:30	387.01	10.4
3/19/93 10:30	387.01	10.4
3/19/93 10:30	387.01	10.4
3/19/93 10:30	387.01	10.4
3/19/93 10:33	387.01	10.4
3/19/93 10:33	387.01	10.4
3/19/93 14:00	387.15	10.3
3/19/93 14:00	387.15	10.3
3/20/93 9:30	387.97	10.4
3/20/93 9:30	387.97	10.4
3/20/93 9:33	387.97	10.4
3/20/93 9:33	387.97	10.4
3/20/93 13:00	388.11	10
3/20/93 13:00	388.11	10
3/21/93 9:30	388.97	10.3
3/21/93 9:30	388.97	10.3
3/21/93 9:30	388.97	10.3
3/21/93 9:33	388.97	10.3
3/21/93 9:33	388.97	10.3
3/22/93 9:30	389.97	10.4
3/22/93 9:30	389.97	10.4
3/22/93 9:33	389.97	10.4
3/22/93 9:33	389.97	10.4
3/22/93 15:00	390.19	10.4
3/22/93 15:00	390.19	10.4
3/23/93 11:00	391.03	10.4
3/23/93 11:00	391.03	10.4
3/23/93 11:00	391.03	10.4
3/23/93 11:03	391.03	10.4
3/23/93 11:03	391.03	10.4
3/23/93 15:00	391.19	10.4
3/23/93 15:00	391.19	10.4
3/24/93 7:00	391.86	10.6
3/24/93 7:00	391.86	10.6
3/24/93 7:05	391.86	10.6
3/24/93 7:05	391.86	10.6
3/24/93 16:00	392.24	10.4
3/24/93 16:00	392.24	10.4
3/24/93 16:00	392.24	10.4

DATE DAY IN. HG.

VACUUM.XLS

3/25/93	9:30	392.97	10.6
3/25/93	9:30	392.97	10.6
3/25/93	9:30	392.97	10.6
3/25/93	9:33	392.97	10.6
3/25/93	9:33	392.97	10.6
3/25/93	13:30	393.13	10.6
3/25/93	13:30	393.13	10.6
3/26/93	9:00	393.94	9.8
3/26/93	9:00	393.94	9.8
3/26/93	9:03	393.95	9.8
3/26/93	9:03	393.95	9.8
3/26/93	13:00	394.11	9.9
3/26/93	13:00	394.11	9.9
3/27/93	11:00	395.03	10.4
3/27/93	11:00	395.03	10.4
3/27/93	11:03	395.03	10.4
3/27/93	11:03	395.03	10.4
3/28/93	9:00	395.94	10.5
3/28/93	9:00	395.94	10.5
3/28/93	9:00	395.94	10.5
3/28/93	9:03	395.95	10.5
3/28/93	9:03	395.95	10.5
3/28/93	13:00	396.11	10.4
3/28/93	13:00	396.11	10.4
3/29/93	10:00	396.99	10.6
3/29/93	10:00	396.99	10.6
3/29/93	10:05	396.99	10.6
3/29/93	10:05	396.99	10.6
3/29/93	18:33	397.34	10.5
3/29/93	18:33	397.34	10.5
3/30/93	9:00	397.94	10.6
3/30/93	9:00	397.94	10.6
3/30/93	9:03	397.95	10.6
3/30/93	9:03	397.95	10.6
3/30/93	9:03	397.95	10.6
3/30/93	17:00	398.28	10.2
3/30/93	17:00	398.28	10.2
3/31/93	10:30	399.01	10.4
3/31/93	10:30	399.01	10.4
3/31/93	10:33	399.01	10.4
3/31/93	10:33	399.01	10.4
3/31/93	10:33	399.01	10.4
3/31/93	13:00	399.11	10.9
3/31/93	13:00	399.11	10.9
4/1/93	10:00	399.99	10.6
4/1/93	10:00	399.99	10.6
4/1/93	10:00	399.99	10.6
4/1/93	10:05	399.99	10.6
4/1/93	10:05	399.99	10.6
4/1/93	13:00	400.11	10.5
4/1/93	13:00	400.11	10.5
4/2/93	10:30	401.01	10.7

DATE DAY IN. HG.

VACUUM.XLS

4/2/93 10:30	401.01	10.7
4/2/93 10:33	401.01	10.7
4/2/93 10:33	401.01	10.7
4/2/93 14:00	401.15	10
4/2/93 14:00	401.15	10
4/2/93 14:00	401.15	10
4/3/93 13:00	402.11	10.7
4/3/93 13:00	402.11	10.7
4/3/93 13:03	402.11	10.7
4/3/93 13:03	402.11	10.7
4/3/93 13:03	402.11	10.7
4/4/93 14:00	403.15	10.5
4/4/93 14:00	403.15	10.5
4/4/93 14:03	403.15	10.5
4/4/93 14:03	403.15	10.5
4/5/93 11:00	404.03	10.6
4/5/93 11:00	404.03	10.6
4/5/93 11:03	404.03	10.6
4/5/93 11:03	404.03	10.6
4/5/93 11:03	404.03	10.6
4/5/93 16:00	404.24	10
4/5/93 16:00	404.24	10
4/6/93 11:30	405.05	10.6
4/6/93 11:30	405.05	10.6
4/6/93 11:33	405.05	10.6
4/6/93 11:33	405.05	10.6
4/6/93 13:30	405.13	10.6
4/6/93 13:30	405.13	10.6
4/7/93 10:00	405.99	10.7
4/7/93 10:00	405.99	10.7
4/7/93 10:03	405.99	10.7
4/7/93 10:03	405.99	10.7
4/7/93 10:03	405.99	10.7
4/7/93 13:00	406.11	10.7
4/7/93 13:00	406.11	10.7
4/8/93 10:00	406.99	10.7
4/8/93 10:00	406.99	10.7
4/8/93 10:05	406.99	10.7
4/8/93 10:05	406.99	10.7
4/8/93 17:30	407.30	10.4
4/8/93 17:30	407.30	10.4
4/8/93 17:30	407.30	10.4
4/9/93 13:15	408.12	10.6
4/9/93 13:15	408.12	10.6
4/9/93 13:18	408.12	10.6
4/9/93 13:18	408.12	10.6
4/9/93 16:00	408.24	9.8
4/9/93 16:00	408.24	9.8
4/9/93 16:00	408.24	9.8
4/10/93 12:00	409.07	10.1
4/10/93 12:00	409.07	10.1
4/10/93 12:03	409.07	10.1

DATE DAY IN. HG.

VACUUM.XLS

4/10/93 12:03	409.07	10.1
4/11/93 10:30	410.01	10.4
4/11/93 10:30	410.01	10.4
4/11/93 10:33	410.01	10.4
4/11/93 10:33	410.01	10.4
4/11/93 20:00	410.40	10.2
4/11/93 20:00	410.40	10.2
4/12/93 10:08	410.99	10.4
4/12/93 10:08	410.99	10.4
4/12/93 10:08	410.99	10.4
4/12/93 10:11	410.99	10.4
4/12/93 10:11	410.99	10.4
4/12/93 12:15	411.08	10.2
4/12/93 12:15	411.08	10.2
4/13/93 11:00	412.03	10.3
4/13/93 11:00	412.03	10.3
4/13/93 11:03	412.03	10.3
4/13/93 11:03	412.03	10.3
4/13/93 15:30	412.22	10.3
4/13/93 15:30	412.22	10.3
4/14/93 11:00	413.03	10.3
4/14/93 11:00	413.03	10.3
4/14/93 11:00	413.03	10.3
4/14/93 11:05	413.03	10.3
4/14/93 11:05	413.03	10.3
4/14/93 14:00	413.15	10.3
4/14/93 14:00	413.15	10.3
4/15/93 10:00	413.99	10.4
4/15/93 10:00	413.99	10.4
4/15/93 10:03	413.99	10.4
4/15/93 10:03	413.99	10.4
4/15/93 10:03	413.99	10.4
4/15/93 17:00	414.28	10.3
4/15/93 17:00	414.28	10.3
4/15/93 17:00	414.28	10.3
4/16/93 10:30	415.01	10.3
4/16/93 10:30	415.01	10.3
4/16/93 10:33	415.01	10.3
4/16/93 10:33	415.01	10.3
4/16/93 10:33	415.01	10.3
4/16/93 16:30	415.26	10.3
4/16/93 16:30	415.26	10.3
4/17/93 11:00	416.03	10.5
4/17/93 11:00	416.03	10.5
4/17/93 11:03	416.03	10.5
4/17/93 11:03	416.03	10.5
4/17/93 13:00	416.11	10.5
4/17/93 13:00	416.11	10.5
4/18/93 12:00	417.07	10.5
4/18/93 12:00	417.07	10.5
4/18/93 12:00	417.07	10.5
4/18/93 12:05	417.07	10.5

DATE DAY IN. HG.

VACUUM.XLS

4/18/93 12:05	417.07	10.5
4/19/93 7:30	417.88	10.6
4/19/93 7:30	417.88	10.6
4/19/93 7:33	417.88	10.6
4/19/93 7:33	417.88	10.6
4/19/93 14:30	418.17	10.4
4/19/93 14:30	418.17	10.4
4/20/93 10:30	419.01	10.6
4/20/93 10:30	419.01	10.6
4/20/93 10:30	419.01	10.6
4/20/93 10:33	419.01	10.6
4/20/93 10:33	419.01	10.6
4/20/93 13:00	419.11	10.6
4/20/93 13:00	419.11	10.6
4/21/93 11:00	420.03	10.6
4/21/93 11:00	420.03	10.6
4/21/93 11:03	420.03	10.6
4/21/93 11:03	420.03	10.6
4/21/93 15:00	420.19	10.6
4/21/93 15:00	420.19	10.6
4/21/93 15:00	420.19	10.6
4/22/93 11:30	421.05	10.6
4/22/93 11:30	421.05	10.6
4/22/93 11:33	421.05	10.6
4/22/93 11:33	421.05	10.6
4/22/93 15:31	421.22	10.1
4/22/93 15:31	421.22	10.1
4/23/93 10:20	422.00	10.8
4/23/93 10:20	422.00	10.8
4/23/93 10:23	422.00	10.8
4/23/93 10:23	422.00	10.8
4/23/93 22:20	422.50	10.3
4/23/93 22:20	422.50	10.3
4/24/93 12:00	423.07	10.6
4/24/93 12:00	423.07	10.6
4/24/93 12:10	423.08	10.6
4/24/93 12:10	423.08	10.6
4/25/93 7:38	423.89	10.6
4/25/93 7:38	423.89	10.6
4/25/93 7:42	423.89	10.6
4/25/93 7:42	423.89	10.6
4/25/93 18:45	424.35	9.8
4/25/93 18:45	424.35	9.8
4/26/93 9:08	424.95	10
4/26/93 9:08	424.95	10
4/26/93 10:45	425.02	10
4/26/93 10:45	425.02	10
4/26/93 13:18	425.12	10
4/26/93 13:18	425.12	10
4/27/93 7:45	425.89	10.2
4/27/93 7:45	425.89	10.2
4/27/93 7:45	425.89	10.2

DATE DAY IN. HG.

VACUUM.XLS

4/27/93 7:47	425.89	10.2
4/27/93 7:47	425.89	10.2
4/27/93 7:47	425.89	10.2
4/27/93 19:15	426.37	10
4/27/93 19:15	426.37	10
4/28/93 9:13	426.95	10.2
4/28/93 9:13	426.95	10.2
4/28/93 9:15	426.95	10.2
4/28/93 9:15	426.95	10.2
4/28/93 12:10	427.08	11.8
4/28/93 12:10	427.08	11.8
4/28/93 12:12	427.08	11.8
4/28/93 12:12	427.08	11.8
4/29/93 8:15	427.91	12.2
4/29/93 8:15	427.91	12.2
4/29/93 8:18	427.92	12.2
4/29/93 8:18	427.92	12.2
4/29/93 16:08	428.24	11.8
4/29/93 16:08	428.24	11.8
4/29/93 16:08	428.24	11.8
4/30/93 9:12	428.95	11.6
4/30/93 9:12	428.95	11.6
4/30/93 9:15	428.95	11.6
4/30/93 9:15	428.95	11.6
4/30/93 17:26	429.30	11.8
4/30/93 17:26	429.30	11.8

WSRC DATA & CHART

PRESSURE ON CATOX SIDE OF BLOWER

DATE	DAYS	Pressure psi
1/1/04 0:00		0
1/1/04 0:00		0
2/26/92 10:20	0	1.5
2/26/92 10:42	0	1.5
2/26/92 10:47	0	1.5
2/26/92 10:51	0	1.5
2/26/92 10:59	0	1.5
2/26/92 11:20	0	1.5
2/26/92 11:26	0	1.5
2/26/92 12:20	0	1.5
2/26/92 12:28	0	1.5
2/26/92 13:26	0	2.5
2/26/92 13:38	0	2.5
2/26/92 15:20	0	2.5
2/26/92 15:25	0	2.5
2/26/92 19:30	0	2.5
2/26/92 19:50	0	2.5
2/26/92 20:30	0	2.5
2/26/92 23:20	1	2.5
2/26/92 23:25	1	2.5
2/27/92 3:20	1	2.9
2/27/92 3:23	1	2.9
2/27/92 7:20	1	2.9
2/27/92 7:23	1	2.9
2/27/92 11:22	1	2
2/27/92 11:27	1	2
2/27/92 15:22	1	1.25
2/27/92 15:26	1	1.25
2/27/92 17:20	1	1.25
2/27/92 18:10	1	1.25
2/28/92 6:20	2	0
2/28/92 6:23	2	0
2/28/92 12:15	2	0
2/28/92 18:20	2	0
2/28/92 18:20	2	0
2/29/92 7:05	3	0
2/29/92 7:10	3	0
2/29/92 19:10	3	0
2/29/92 19:15	3	0
3/1/92 3:05	4	0
3/1/92 3:12	4	0
3/1/92 15:00	4	0
3/1/92 15:05	4	0
3/2/92 7:45	5	1.8
3/2/92 7:50	5	1.8
3/2/92 19:00	5	1.8
3/2/92 19:05	5	1.8

DATE	DAYS	PSI	PRESSEXT.XLS
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3/5/92 23:45	9	2.2
3/5/92 23:48	9	2.2
3/6/92 0:45	9	2.2
3/6/92 2:45	9	2.2
3/6/92 2:50	9	2.2
3/6/92 6:45	9	2.2
3/6/92 10:45	9	2
3/6/92 10:50	9	2
3/6/92 14:45	9	2
3/6/92 14:46	9	2
3/7/92 7:45	10	1.8
3/7/92 7:50	10	1.8
3/7/92 16:45	10	0.9
3/8/92 7:45	11	2
3/8/92 7:50	11	2
3/8/92 16:45	11	1
3/9/92 7:45	12	2
3/9/92 7:50	12	2
3/9/92 16:45	12	1
3/9/92 16:45	12	1
3/10/92 7:45	13	2
3/10/92 7:50	13	2
3/10/92 10:00	13	2
3/10/92 16:45	13	2
3/11/92 7:45	14	3
3/11/92 7:50	14	3
3/11/92 16:45	14	2
3/12/92 7:45	15	3
3/12/92 7:50	15	3
3/12/92 7:50	15	3
3/12/92 15:45	15	1.5
3/13/92 7:45	16	2.8
3/13/92 7:50	16	2.8
3/13/92 16:45	16	1.5
3/14/92 7:45	17	3.2
3/14/92 7:50	17	3.2
3/14/92 15:45	17	1
3/15/92 7:30	18	3
3/15/92 7:35	18	3
3/15/92 16:15	18	2
3/16/92 7:35	19	3.4
3/16/92 7:40	19	3.4
3/16/92 7:40	19	3.4
3/16/92 15:50	19	1.1
3/17/92 7:50	20	3.1
3/17/92 7:55	20	3.1
3/17/92 16:30	20	1.4
3/18/92 7:50	21	2.8
3/18/92 7:55	21	2.8
3/18/92 17:00	21	2
3/19/92 7:45	22	2.5
3/19/92 7:50	22	2.5

DATE DAYS PSI PRESSEXT.XLS

3/19/92 14:30	22	1.5
3/20/92 8:00	23	2.2
3/20/92 8:05	23	2.2
3/20/92 17:00	23	2
3/21/92 7:45	24	3
3/21/92 7:50	24	3
3/21/92 7:50	24	3
3/21/92 16:00	24	1.2
3/22/92 7:40	25	2.8
3/22/92 7:45	25	2.8
3/22/92 15:45	25	2.1
3/23/92 7:45	26	2.2
3/23/92 7:50	26	2.2
3/23/92 15:00	26	1.5
3/24/92 8:00	27	2.9
3/24/92 8:00	27	2.9
3/24/92 8:05	27	2.9
3/24/92 16:45	27	1.5
3/25/92 8:00	28	2.9
3/25/92 8:05	28	2.9
3/25/92 16:30	28	2.8
3/26/92 7:00	29	2.9
3/26/92 7:05	29	2.9
3/26/92 16:00	29	2
3/27/92 8:00	30	2.2
3/27/92 8:05	30	2.2
3/27/92 17:00	30	1.5
3/28/92 6:55	31	3.1
3/28/92 7:00	31	3.1
3/28/92 14:00	31	1.4
3/29/92 6:50	32	3.1
3/29/92 6:55	32	3.1
3/29/92 14:55	32	1.3
4/2/92 15:00	36	1.4
4/2/92 15:01	36	1.4
4/2/92 15:05	36	1.4
4/2/92 17:00	36	1.6
4/2/92 17:05	36	1.6
4/2/92 19:00	36	1.4
4/3/92 8:00	37	2.9
4/3/92 8:05	37	2.9
4/3/92 16:05	37	1.4
4/4/92 6:45	38	3
4/4/92 6:50	38	3
4/5/92 8:00	39	2.9
4/5/92 8:05	39	2.9
4/5/92 15:00	39	1.4
4/5/92 15:00	39	1.4
4/6/92 9:00	40	2.5
4/6/92 9:05	40	2.5
4/6/92 16:00	40	2
4/7/92 9:00	41	2.3

DATE DAYS PSI PRESSEXT.XLS

4/7/92 9:05	41	2.3
4/7/92 16:00	41	2.2
4/8/92 8:55	42	2.5
4/8/92 9:00	42	2.5
4/8/92 16:00	42	1.5
4/9/92 7:00	43	2.9
4/9/92 7:00	43	2.9
4/9/92 7:05	43	2.9
4/9/92 16:00	43	1.4
4/10/92 7:00	44	3
4/10/92 7:05	44	3
4/10/92 15:00	44	1.6
4/10/92 15:00	44	1.6
4/11/92 7:00	45	3
4/11/92 7:05	45	3
4/11/92 13:00	45	2
4/12/92 7:00	46	3
4/12/92 7:05	46	3
4/12/92 13:55	46	1.7
4/13/92 8:00	47	2.8
4/13/92 8:05	47	2.8
4/13/92 16:00	47	1.7
4/14/92 8:00	48	3.2
4/14/92 8:00	48	3.2
4/14/92 8:05	48	3.2
4/14/92 16:00	48	1.5
4/15/92 8:00	49	3
4/15/92 8:05	49	3
4/15/92 15:00	49	1.3
4/16/92 7:00	50	3.1
4/16/92 7:05	50	3.1
4/16/92 15:55	50	1.2
4/17/92 8:00	51	2.8
4/17/92 8:05	51	2.8
4/17/92 14:00	51	1.6
4/18/92 7:00	52	3.1
4/18/92 7:05	52	3.1
4/18/92 13:00	52	1.7
4/19/92 7:00	53	2.9
4/19/92 7:00	53	2.9
4/19/92 7:05	53	2.9
4/19/92 14:05	53	1.8
4/20/92 7:00	54	2.7
4/20/92 7:05	54	2.7
4/20/92 9:00	54	2.7
4/20/92 16:00	54	2
4/21/92 9:00	55	2.5
4/21/92 9:05	55	2.5
4/21/92 16:00	55	2
4/22/92 8:00	56	2.8
4/22/92 8:00	56	2.8
4/22/92 8:05	56	2.8

DATE	DAYS	PSI	PRESSEXT.XLS
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4/22/92 16:00	56	1.5
4/23/92 9:00	57	3
4/23/92 9:05	57	3
4/23/92 16:00	57	1.3
4/23/92 16:05	57	1.3
4/24/92 9:00	58	2.2
4/24/92 9:00	58	2.2
4/24/92 9:05	58	2.2
4/24/92 14:00	58	1.2
4/26/92 8:00	60	2.8
4/26/92 8:05	60	2.8
4/26/92 14:00	60	2
4/27/92 8:00	61	2.9
4/27/92 8:00	61	2.9
4/27/92 8:05	61	2.9
4/27/92 8:05	61	2.9
4/27/92 15:00	61	2
4/27/92 15:00	61	2
4/28/92 8:00	62	2.8
4/28/92 8:00	62	2.8
4/28/92 8:05	62	2.8
4/28/92 8:05	62	2.8
4/28/92 8:05	62	2.8
4/28/92 8:05	62	2.8
4/28/92 15:00	62	1.6
4/28/92 15:00	62	1.6
4/29/92 8:00	63	2.6
4/29/92 8:00	63	2.6
4/29/92 8:05	63	2.6
4/29/92 8:05	63	2.6
4/29/92 15:00	63	1.3
4/29/92 15:00	63	1.3
4/30/92 8:00	64	2.8
4/30/92 8:00	64	2.8
4/30/92 8:05	64	2.8
4/30/92 8:05	64	2.8
4/30/92 16:00	64	1
4/30/92 16:00	64	1
5/1/92 8:00	65	2.9
5/1/92 8:00	65	2.9
5/1/92 8:05	65	2.9
5/1/92 8:05	65	2.9
5/1/92 15:00	65	1
5/1/92 15:00	65	1
5/2/92 8:00	66	2.4
5/2/92 8:00	66	2.4
5/2/92 8:05	66	2.4
5/2/92 8:05	66	2.4
5/3/92 8:00	67	2.6
5/3/92 8:00	67	2.6
5/3/92 8:00	67	2.6
5/3/92 8:05	67	2.6

DATE DAYS PSI PRESSEXT.XLS

5/3/92 8:05	67	2.6
5/4/92 8:00	68	2.1
5/4/92 8:00	68	2.1
5/4/92 8:05	68	2.1
5/4/92 8:05	68	2.1
5/4/92 8:05	68	2.1
5/4/92 15:00	68	1
5/4/92 15:00	68	1
5/5/92 8:00	69	2.1
5/5/92 8:00	69	2.1
5/5/92 8:05	69	2.1
5/5/92 8:05	69	2.1
5/5/92 15:00	69	1
5/5/92 15:00	69	1
5/6/92 8:00	70	2.9
5/6/92 8:00	70	2.9
5/6/92 8:00	70	2.9
5/6/92 8:05	70	2.9
5/6/92 8:05	70	2.9
5/6/92 16:00	70	2.9
5/6/92 16:00	70	2.9
5/7/92 7:00	71	3.1
5/7/92 7:00	71	3.1
5/7/92 7:05	71	3.1
5/7/92 7:05	71	3.1
5/7/92 15:00	71	2.8
5/7/92 15:00	71	2.8
5/8/92 7:00	72	2.8
5/8/92 7:00	72	2.8
5/8/92 7:00	72	2.8
5/8/92 7:00	72	2.8
5/8/92 7:05	72	2.8
5/8/92 7:05	72	2.8
5/8/92 13:00	72	2.8
5/8/92 13:00	72	2.8
5/8/92 13:00	72	2.8
5/9/92 8:00	73	2.4
5/9/92 8:00	73	2.4
5/9/92 8:05	73	2.4
5/9/92 8:05	73	2.4
5/10/92 8:00	74	2.6
5/10/92 8:00	74	2.6
5/10/92 8:05	74	2.6
5/10/92 8:05	74	2.6
5/11/92 8:00	75	2
5/11/92 8:00	75	2
5/11/92 8:05	75	2
5/11/92 8:05	75	2
5/11/92 14:00	75	0.8
5/11/92 14:00	75	0.8
5/11/92 14:00	75	0.8
5/12/92 8:00	76	2.3

DATE	DAYS	PSI	PRESSEXT.XLS
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5/12/92 8:00	76	2.3
5/12/92 8:05	76	2.3
5/12/92 8:05	76	2.3
5/12/92 14:00	76	1
5/12/92 14:00	76	1
5/12/92 14:00	76	1
5/13/92 8:00	77	2
5/13/92 8:00	77	2
5/13/92 8:05	77	2
5/13/92 8:05	77	2
5/13/92 14:00	77	2
5/13/92 14:00	77	2
5/14/92 7:00	78	2.7
5/14/92 7:00	78	2.7
5/14/92 7:05	78	2.7
5/14/92 7:05	78	2.7
5/14/92 15:00	78	0.5
5/14/92 15:00	78	0.5
5/14/92 15:00	78	0.5
5/15/92 7:00	79	2.7
5/15/92 7:00	79	2.7
5/15/92 7:05	79	2.7
5/15/92 7:05	79	2.7
5/15/92 14:00	79	1
5/15/92 14:00	79	1
5/16/92 10:00	80	1
5/16/92 10:00	80	1
5/16/92 10:00	80	1
5/16/92 10:05	80	1
5/16/92 10:05	80	1
5/17/92 8:00	81	2
5/17/92 8:00	81	2
5/17/92 8:05	81	2
5/17/92 8:05	81	2
5/18/92 17:05	82	1
5/18/92 17:05	82	1
5/18/92 17:10	82	1
5/18/92 17:10	82	1
5/19/92 8:00	83	2.4
5/19/92 8:00	83	2.4
5/19/92 8:05	83	2.4
5/19/92 8:05	83	2.4
5/19/92 15:00	83	1.8
5/19/92 15:00	83	1.8
5/19/92 15:00	83	1.8
5/20/92 8:00	84	2.5
5/20/92 8:00	84	2.5
5/20/92 8:05	84	2.5
5/20/92 8:05	84	2.5
5/20/92 8:05	84	2.5
5/20/92 15:00	84	1.2
5/20/92 15:00	84	1.2

DATE	DAYS	PSI	PRESSEXT.XLS
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5/21/92 8:00		85	2.8
5/21/92 8:00		85	2.8
5/21/92 7:55		85	2.8
5/21/92 7:55		85	2.8
5/21/92 14:30		85	1
5/21/92 14:30		85	1
5/21/92 14:30		85	1
5/22/92 7:05		86	3
5/22/92 7:05		86	3
5/22/92 7:00		86	3
5/22/92 7:00		86	3
5/22/92 7:00		86	3
5/22/92 13:05		86	1.1
5/22/92 13:05		86	1.1
5/22/92 13:05		86	1.1
5/23/92 8:00		87	2.8
5/23/92 8:00		87	2.8
5/23/92 8:05		87	2.8
5/23/92 8:05		87	2.8
5/24/92 8:00		88	2.5
5/24/92 8:00		88	2.5
5/24/92 8:05		88	2.5
5/24/92 8:05		88	2.5
5/25/92 8:00		89	2.6
5/25/92 8:00		89	2.6
5/25/92 8:00		89	2.6
5/25/92 8:05		89	2.6
5/25/92 8:05		89	2.6
5/25/92 17:00		89	1
5/25/92 17:00		89	1
5/26/92 8:00		90	2.3
5/26/92 8:00		90	2.3
5/26/92 8:05		90	2.3
5/26/92 8:05		90	2.3
5/26/92 14:00		90	1
5/26/92 14:00		90	1
5/26/92 14:00		90	1
5/27/92 8:00		91	2.8
5/27/92 8:00		91	2.8
5/27/92 8:05		91	2.8
5/27/92 8:05		91	2.8
5/27/92 13:00		91	2
5/27/92 13:00		91	2
5/28/92 8:00		92	2.8
5/28/92 8:00		92	2.8
5/28/92 8:05		92	2.8
5/28/92 8:05		92	2.8
5/28/92 8:05		92	2.8
5/28/92 16:00		92	2.8
5/28/92 16:00		92	2.8
5/28/92 16:00		92	2.8
5/29/92 6:05		93	2.6

DATE DAYS PSI PRESSEXT.XLS

5/29/92 6:05	93	2.6
5/29/92 6:10	93	2.6
5/29/92 6:10	93	2.6
5/29/92 12:00	93	2.4
5/29/92 12:00	93	2.4
5/29/92 12:00	93	2.4
5/30/92 8:00	94	2.6
5/30/92 8:00	94	2.6
5/30/92 8:05	94	2.6
5/30/92 8:05	94	2.6
5/31/92 10:00	95	1.5
5/31/92 10:00	95	1.5
5/31/92 10:05	95	1.5
5/31/92 10:05	95	1.5
6/1/92 8:00	96	2.5
6/1/92 8:00	96	2.5
6/1/92 8:05	96	2.5
6/1/92 8:05	96	2.5
6/1/92 14:00	96	1.5
6/1/92 14:00	96	1.5
6/2/92 8:00	97	2.3
6/2/92 8:00	97	2.3
6/2/92 8:05	97	2.3
6/2/92 8:05	97	2.3
6/2/92 8:05	97	2.3
6/2/92 14:00	97	1
6/2/92 14:00	97	1
6/2/92 14:00	97	1
6/3/92 8:00	98	2.3
6/3/92 8:00	98	2.3
6/3/92 8:05	98	2.3
6/3/92 8:05	98	2.3
6/3/92 14:00	98	1.9
6/3/92 14:00	98	1.9
6/4/92 8:00	99	2.2
6/4/92 8:00	99	2.2
6/4/92 8:05	99	2.2
6/4/92 8:05	99	2.2
6/4/92 14:00	99	1
6/4/92 14:00	99	1
6/4/92 14:00	99	1
6/5/92 8:00	100	2.3
6/5/92 8:00	100	2.3
6/5/92 8:05	100	2.3
6/5/92 8:05	100	2.3
6/6/92 16:00	101	0.5
6/6/92 16:00	101	0.5
6/6/92 16:00	101	0.5
6/6/92 16:05	101	0.5
6/6/92 16:05	101	0.5
6/7/92 11:00	102	0.9
6/7/92 11:00	102	0.9

DATE DAYS PSI PRESSEXT.XLS

6/7/92 11:05	102	0.9
6/7/92 11:05	102	0.9
6/8/92 8:00	103	2.1
6/8/92 8:00	103	2.1
6/8/92 8:05	103	2.1
6/8/92 8:05	103	2.1
6/10/92 8:00	105	2
6/10/92 8:00	105	2
6/10/92 8:00	105	2
6/10/92 8:05	105	2
6/10/92 8:05	105	2
6/10/92 14:00	105	0.8
6/10/92 14:00	105	0.8
6/11/92 8:00	106	2
6/11/92 8:00	106	2
6/11/92 8:05	106	2
6/11/92 8:05	106	2
6/11/92 8:05	106	2
6/11/92 14:00	106	1
6/11/92 14:00	106	1
6/11/92 14:00	106	1
6/12/92 8:00	107	2.5
6/12/92 8:00	107	2.5
6/12/92 8:00	107	2.5
6/12/92 8:00	107	2.5
6/12/92 8:00	107	2.5
6/12/92 12:00	107	2.5
6/12/92 12:00	107	2.5
6/13/92 12:00	108	2.1
6/13/92 12:00	108	2.1
6/13/92 12:00	108	2.1
6/13/92 12:00	108	2.1
6/13/92 12:00	108	2.1
6/13/92 12:00	108	2.1
6/14/92 13:00	109	1.5
6/14/92 13:00	109	1.5
6/14/92 13:00	109	1.5
6/14/92 13:00	109	1.5
6/15/92 9:30	110	1.7
6/15/92 9:30	110	1.7
6/15/92 9:35	#VALUE!	1.7
6/15/92 9:35	#VALUE!	1.7
6/15/92 15:00	110	1.2
6/15/92 15:00	110	1.2
6/16/92 8:00	111	2
6/16/92 8:00	111	2
6/16/92 8:05	111	2
6/16/92 8:05	111	2
6/16/92 14:00	111	0.8
6/16/92 14:00	111	0.8
6/17/92 8:00	112	2.1
6/17/92 8:00	112	2.1

DATE DAYS PSI PRESSEXT.XLS

6/17/92 8:00	112	2.1
6/17/92 8:00	112	2.1
6/17/92 8:05	112	2.1
6/17/92 8:05	112	2.1
6/17/92 13:00	112	1
6/17/92 13:00	112	1
6/18/92 8:00	113	2.2
6/18/92 8:00	113	2.2
6/18/92 8:05	113	2.2
6/18/92 8:05	113	2.2
6/18/92 16:25	113	1
6/18/92 16:25	113	1
6/19/92 9:08	114	1.4
6/19/92 9:08	114	1.4
6/19/92 9:08	114	1.4
6/19/92 9:21	114	1.4
6/19/92 9:21	114	1.4
6/19/92 12:15	114	0.9
6/19/92 12:15	114	0.9
6/23/92 8:30	118	2
6/23/92 8:30	118	2
6/23/92 8:30	118	2
6/23/92 8:30	118	2
6/23/92 13:30	118	1
6/23/92 13:30	118	1
6/24/92 8:00	119	2.1
6/24/92 8:00	119	2.1
6/24/92 8:00	119	2.1
6/24/92 8:00	119	2.1
6/24/92 8:00	119	2.1
6/24/92 8:00	119	2.1
6/24/92 12:00	119	1.1
6/24/92 12:00	119	1.1
6/25/92 8:00	120	2
6/25/92 8:00	120	2
6/25/92 8:00	120	2
6/25/92 8:00	120	2
6/25/92 12:30	120	0.3
6/25/92 12:30	120	0.3
6/26/92 8:30	121	1.8
6/26/92 8:30	121	1.8
6/26/92 8:30	121	1.8
6/26/92 8:30	121	1.8
6/26/92 8:30	121	1.8
6/26/92 13:00	121	0.5
6/26/92 13:00	121	0.5
6/27/92 11:30	122	1.5
6/27/92 11:30	122	1.5
6/27/92 11:30	122	1.5
6/27/92 11:30	122	1.5
6/27/92 11:30	122	1.5
6/28/92 11:30	123	1.1

DATE	DAYS	PSI	PRESSEXT.XLS
6/28/92 11:30		123	1.1
6/28/92 11:30		123	1.1
6/28/92 11:30		123	1.1
6/28/92 11:30		123	1.1
6/29/92 7:30		124	2
6/29/92 7:30		124	2
6/29/92 7:35		124	2
6/29/92 7:35		124	2
6/29/92 13:00		124	1
6/29/92 13:00		124	1
6/30/92 9:00		125	1.8
6/30/92 9:00		125	1.8
6/30/92 9:05		125	1.8
6/30/92 9:05		125	1.8
6/30/92 14:00		125	0.9
6/30/92 14:00		125	0.9
7/1/92 9:30		126	2
7/1/92 9:30		126	2
7/1/92 9:30		126	2
7/1/92 9:35		126	2
7/1/92 9:35		126	2
7/1/92 14:00		126	1
7/1/92 14:00		126	1
7/1/92 14:00		126	1
7/2/92 8:00		127	2.4
7/2/92 8:00		127	2.4
7/2/92 8:05		127	2.4
7/2/92 8:05		127	2.4
7/2/92 13:30		127	2.1
7/2/92 13:30		127	2.1
7/3/92 8:00		128	2
7/3/92 8:00		128	2
7/3/92 8:00		128	2
7/3/92 8:05		128	2
7/3/92 8:05		128	2
7/3/92 12:00		128	1.4
7/3/92 12:00		128	1.4
7/3/92 12:00		128	1.4
7/4/92 11:00		129	1.2
7/4/92 11:00		129	1.2
7/4/92 11:05		129	1.2
7/4/92 11:05		129	1.2
7/5/92 11:00		130	1.2
7/5/92 11:00		130	1.2
7/5/92 11:05		130	1.2
7/5/92 11:05		130	1.2
7/6/92 9:00		131	2
7/6/92 9:00		131	2
7/6/92 9:05		131	2
7/6/92 9:05		131	2
7/6/92 9:05		131	2
7/6/92 15:00		131	1

DATE DAYS PSI

PRESSEXT.XLS

7/6/92 15:00	131	1
7/6/92 15:00	131	1
7/7/92 9:30	132	1.1
7/7/92 9:30	132	1.1
7/7/92 9:35	132	1.1
7/7/92 9:35	132	1.1
7/7/92 13:30	#VALUE!	0.8
7/7/92 13:30	#VALUE!	0.8
7/8/92 8:00	133	1.5
7/8/92 8:00	133	1.5
7/8/92 8:05	133	1.5
7/8/92 8:05	133	1.5
7/8/92 15:00	133	0.9
7/8/92 15:00	133	0.9
7/9/92 9:00	134	1.5
7/9/92 9:00	134	1.5
7/9/92 9:05	134	1.5
7/9/92 9:05	134	1.5
7/9/92 14:00	134	0.6
7/9/92 14:00	134	0.6
7/10/92 10:00	135	1.2
7/10/92 10:00	135	1.2
7/10/92 10:05	135	1.2
7/10/92 10:05	135	1.2
7/10/92 13:00	135	0.8
7/10/92 13:00	135	0.8
7/11/92 9:30	136	1.5
7/11/92 9:30	136	1.5
7/11/92 9:35	136	1.5
7/11/92 9:35	136	1.5
7/11/92 9:35	136	1.5
7/12/92 10:15	137	1
7/12/92 10:15	137	1
7/12/92 10:24	137	1
7/12/92 10:24	137	1
7/13/92 8:40	138	2
7/13/92 8:40	138	2
7/13/92 8:43	138	2
7/13/92 8:43	138	2
7/13/92 13:35	138	0.5
7/13/92 13:35	138	0.5
7/14/92 8:40	139	1.5
7/14/92 8:40	139	1.5
7/14/92 8:43	139	1.5
7/14/92 8:43	139	1.5
7/14/92 13:25	139	1
7/14/92 13:25	139	1
7/15/92 8:11	140	1.5
7/15/92 8:11	140	1.5
7/15/92 8:11	140	1.5
7/15/92 8:15	140	1.5
7/15/92 8:15	140	1.5

DATE	DAYS	PSI	PRESSEXT.XLS
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7/15/92 8:15	140	1.5
7/15/92 13:31	140	1
7/15/92 13:31	140	1
7/16/92 8:10	141	2.5
7/16/92 8:10	141	2.5
7/16/92 8:14	141	2.5
7/16/92 8:14	141	2.5
7/16/92 13:58	141	1.3
7/16/92 13:58	141	1.3
7/17/92 9:45	142	2
7/17/92 9:45	142	2
7/17/92 9:45	142	2
7/17/92 9:50	142	2
7/17/92 9:50	142	2
7/17/92 13:29	142	1
7/17/92 13:29	142	1
7/18/92 8:05	143	2
7/18/92 8:05	143	2
7/18/92 8:10	143	2
7/18/92 8:10	143	2
7/19/91 8:02	-222	2.5
7/19/91 8:02	-222	2.5
7/19/92 8:10	144	2.5
7/19/92 8:10	144	2.5
7/20/92 7:45	145	2.5
7/20/92 7:45	145	2.5
7/20/92 7:51	145	2.5
7/20/92 7:51	145	2.5
7/20/92 7:51	145	2.5
7/20/92 13:00	145	1
7/20/92 13:00	145	1
7/21/92 9:10	146	1.5
7/21/92 9:10	146	1.5
7/21/92 9:15	146	1.5
7/21/92 9:15	146	1.5
7/21/92 13:30	146	1
7/21/92 13:30	146	1
7/21/92 13:30	146	1
7/22/92 8:39	147	2
7/22/92 8:39	147	2
7/22/92 8:44	147	2
7/22/92 8:44	147	2
7/22/92 13:35	147	1
7/22/92 13:35	147	1
7/23/92 8:02	148	2.5
7/23/92 8:02	148	2.5
7/23/92 8:07	148	2.5
7/23/92 8:07	148	2.5
7/23/92 13:30	148	2.5
7/23/92 13:30	148	2.5
7/24/92 7:50	149	2
7/24/92 7:50	149	2

DATE	DAYS	PSI	PRESSEXT.XLS
7/24/92 7:50		149	2
7/24/92 7:55		149	2
7/24/92 7:55		149	2
7/24/92 13:00		149	1
7/24/92 13:00		149	1
7/25/92 8:10		150	2
7/25/92 8:10		150	2
7/25/92 8:15		150	2
7/25/92 8:15		150	2
7/26/92 9:30		151	1.5
7/26/92 9:30		151	1.5
7/26/92 9:34		151	1.5
7/26/92 9:34		151	1.5
7/27/92 8:00		152	2
7/27/92 8:00		152	2
7/27/92 8:00		152	2
7/27/92 8:05		152	2
7/27/92 8:05		152	2
7/27/92 13:00		152	1
7/27/92 13:00		152	1
7/28/92 10:00		153	1.5
7/28/92 10:00		153	1.5
7/28/92 10:05		153	1.5
7/28/92 10:05		153	1.5
7/28/92 12:00		153	1.3
7/28/92 12:00		153	1.3
7/29/92 9:00		154	1.5
7/29/92 9:00		154	1.5
7/29/92 9:00		154	1.5
7/29/92 9:05		154	1.5
7/29/92 9:05		154	1.5
7/29/92 13:00		154	1.5
7/29/92 13:00		154	1.5
7/30/92 7:00		155	2.1
7/30/92 7:00		155	2.1
7/30/92 7:05		155	2.1
7/30/92 7:05		155	2.1
7/30/92 7:05		155	2.1
7/30/92 12:00		155	1
7/30/92 12:00		155	1
7/31/92 9:00		156	1.8
7/31/92 9:00		156	1.8
7/31/92 9:00		156	1.8
7/31/92 9:05		156	1.8
7/31/92 9:05		156	1.8
7/31/92 12:00		156	1
7/31/92 12:00		156	1
8/6/92 8:00		162	2.2
8/6/92 8:00		162	2.2
8/6/92 8:05		162	2.2
8/6/92 8:05		162	2.2
8/6/92 12:00		162	2.1

DATE DAYS PSI PRESSEXT.XLS

8/6/92 12:00	162	2.1
8/7/92 8:20	163	2.4
8/7/92 8:20	163	2.4
8/7/92 8:25	163	2.4
8/7/92 8:25	163	2.4
8/7/92 13:22	163	1.5
8/7/92 13:22	163	1.5
8/8/92 9:30	164	2
8/8/92 9:30	164	2
8/8/92 9:35	164	2
8/8/92 9:35	164	2
8/9/92 8:00	165	2.2
8/9/92 8:00	165	2.2
8/9/92 8:05	165	2.2
8/9/92 8:05	165	2.2
8/10/92 7:35	166	2.4
8/10/92 7:35	166	2.4
8/10/92 7:35	166	2.4
8/10/92 7:40	166	2.4
8/10/92 7:40	166	2.4
8/10/92 13:20	166	1
8/10/92 13:20	166	1
8/11/92 8:00	167	2.1
8/11/92 8:00	167	2.1
8/11/92 8:00	167	2.1
8/11/92 8:05	167	2.1
8/11/92 8:05	167	2.1
8/11/92 13:00	167	1
8/11/92 13:00	167	1
8/12/92 7:50	168	2.2
8/12/92 7:50	168	2.2
8/12/92 7:55	168	2.2
8/12/92 7:55	168	2.2
8/12/92 12:26	168	1
8/12/92 12:26	168	1
8/12/92 12:26	168	1
8/13/92 8:20	169	2.2
8/13/92 8:20	169	2.2
8/13/92 8:25	169	2.2
8/13/92 8:25	169	2.2
8/13/92 15:00	169	1
8/13/92 15:00	169	1
8/14/92 8:15	170	2.5
8/14/92 8:15	170	2.5
8/14/92 8:20	170	2.5
8/14/92 8:20	170	2.5
8/14/92 13:00	170	2.2
8/14/92 13:00	170	2.2
8/14/92 13:00	170	2.2
8/15/92 8:20	171	2.5
8/15/92 8:20	171	2.5
8/15/92 8:25	171	2.5

DATE DAYS PSI PRESSEXT.XLS

8/15/92 8:25	171	2.5
8/16/92 8:15	172	2.5
8/16/92 8:15	172	2.5
8/16/92 8:20	172	2.5
8/16/92 8:20	172	2.5
8/17/92 9:00	173	2.5
8/17/92 9:00	173	2.5
8/17/92 9:00	173	2.5
8/17/92 9:00	173	2.5
8/17/92 9:05	173	2.5
8/17/92 9:05	173	2.5
8/17/92 14:30	173	1.8
8/17/92 14:30	173	1.8
8/18/92 8:25	174	2.5
8/18/92 8:25	174	2.5
8/18/92 8:30	174	2.5
8/18/92 8:30	174	2.5
8/18/92 14:00	174	1
8/18/92 14:00	174	1
8/19/92 8:10	175	2.2
8/19/92 8:10	175	2.2
8/20/92 17:00	176	2.5
8/20/92 17:00	176	2.5
8/20/92 17:05	176	2.5
8/20/92 17:05	176	2.5
8/20/92 17:05	176	2.5
8/20/92 17:05	176	2.5
8/21/92 8:00	177	2.5
8/21/92 8:00	177	2.5
8/21/92 8:05	177	2.5
8/21/92 8:05	177	2.5
8/21/92 13:30	177	1.9
8/21/92 13:30	177	1.9
8/22/92 9:30	178	2.5
8/22/92 9:30	178	2.5
8/22/92 9:35	178	2.5
8/22/92 9:35	178	2.5
8/22/92 9:35	178	2.5
8/23/92 10:00	179	2.5
8/23/92 10:00	179	2.5
8/23/92 10:05	179	2.5
8/23/92 10:05	179	2.5
8/24/92 8:16	180	2.5
8/24/92 8:16	180	2.5
8/24/92 8:21	180	2.5
8/24/92 8:21	180	2.5
8/24/92 8:21	180	2.5
8/24/92 13:30	180	1.3
8/24/92 13:30	180	1.3
8/25/92 8:50	181	2.5
8/25/92 8:50	181	2.5
8/25/92 9:00	181	2.5

DATE DAYS PSI PRESSEXT.XLS

8/25/92 9:00	181	2.5
8/25/92 14:00	181	1
8/25/92 14:00	181	1
8/26/92 8:30	182	2
8/26/92 8:30	182	2
8/26/92 8:35	182	2
8/26/92 8:35	182	2
8/26/92 8:35	182	2
8/26/92 13:30	182	1
8/26/92 13:30	182	1
8/27/92 8:00	183	2
8/27/92 8:00	183	2
8/27/92 8:05	183	2
8/27/92 8:05	183	2
8/27/92 13:30	183	1
8/27/92 13:30	183	1
8/27/92 13:30	183	1
8/28/92 8:30	184	2
8/28/92 8:30	184	2
8/28/92 8:35	184	2
8/28/92 8:35	184	2
8/28/92 13:00	184	1.5
8/28/92 13:00	184	1.5
8/28/92 13:00	184	1.5
8/29/92 9:00	185	2
8/29/92 9:00	185	2
8/29/92 9:05	185	2
8/29/92 9:05	185	2
8/30/92 9:00	186	2.2
8/30/92 9:00	186	2.2
8/30/92 9:05	186	2.2
8/30/92 9:05	186	2.2
8/31/92 8:30	187	2
8/31/92 8:30	187	2
8/31/92 8:35	187	2
8/31/92 8:35	187	2
8/31/92 13:00	187	1.2
8/31/92 13:00	187	1.2
9/1/92 21:25	188	2.5
9/1/92 21:25	188	2.5
9/1/92 21:30	188	2.5
9/1/92 21:30	188	2.5
9/2/92 9:31	189	2
9/2/92 9:31	189	2
9/2/92 9:31	189	2
9/2/92 9:31	189	2
9/2/91 9:36	-177	2
9/2/91 9:36	-177	2
9/2/91 13:30	-177	1
9/2/91 13:30	-177	1
9/3/92 8:00	190	2.5
9/3/92 8:00	190	2.5

9/3/92 8:05	190	2.5
9/3/92 8:05	190	2.5
9/3/92 13:40	190	1.5
9/3/92 13:40	190	1.5
9/4/92 8:30	191	2.5
9/4/92 8:30	191	2.5
9/4/92 8:35	191	2.5
9/4/92 8:35	191	2.5
9/4/92 12:00	191	1.2
9/4/92 12:00	191	1.2
9/5/92 13:00	192	2.5
9/5/92 13:00	192	2.5
9/5/92 13:00	192	2.5
9/5/92 13:05	192	2.5
9/5/92 13:05	192	2.5
9/6/92 9:55	193	2.5
9/6/92 9:55	193	2.5
9/6/92 9:55	193	2.5
9/6/92 10:00	193	2.5
9/6/92 10:00	193	2.5
9/7/92 10:00	194	2
9/7/92 10:00	194	2
9/7/92 10:05	194	2
9/7/92 10:05	194	2
9/7/92 12:30	194	1.7
9/7/92 12:30	194	1.7
9/8/92 8:55	195	2
9/8/92 8:55	195	2
9/8/92 8:55	195	2
9/8/92 9:00	195	2
9/8/92 9:00	195	2
9/8/92 12:55	195	1
9/8/92 12:55	195	1
9/9/92 8:55	196	2
9/9/92 8:55	196	2
9/9/92 9:00	196	2
9/9/92 9:00	196	2
9/9/92 12:00	196	1.5
9/9/92 12:00	196	1.5
9/9/92 12:00	196	1.5
9/10/92 8:00	197	2.5
9/10/92 8:00	197	2.5
9/10/92 8:05	197	2.5
9/10/92 8:05	197	2.5
9/10/92 12:00	197	1.2
9/10/92 12:00	197	1.2
9/10/92 12:00	197	1.2
9/11/92 8:00	198	2.5
9/11/92 8:00	198	2.5
9/11/92 8:05	198	2.5
9/11/92 8:05	198	2.5
9/11/92 12:00	198	1.2

DATE	DAYS	PSI	PRESSEXT.XLS
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9/11/92 12:00	198	1.2
9/11/92 12:00	198	1.2
9/12/92 9:00	199	2.2
9/12/92 9:00	199	2.2
9/12/92 9:05	199	2.2
9/12/92 9:05	199	2.2
9/13/92 9:00	200	2.2
9/13/92 9:00	200	2.2
9/13/92 9:05	200	2.2
9/13/92 9:05	200	2.2
9/14/92 9:00	201	2.5
9/14/92 9:00	201	2.5
9/14/92 9:00	201	2.5
9/14/92 9:05	201	2.5
9/14/92 9:05	201	2.5
9/14/92 9:05	201	2.5
9/14/92 16:05	201	1
9/14/92 16:05	201	1
9/15/92 9:00	202	2.5
9/15/92 9:00	202	2.5
9/15/92 9:05	202	2.5
9/15/92 9:05	202	2.5
9/15/92 13:00	202	1.5
9/15/92 13:00	202	1.5
9/16/92 9:40	203	2
9/16/92 9:40	203	2
9/16/92 9:45	203	2
9/16/92 9:45	203	2
9/16/92 13:45	203	1
9/16/92 13:45	203	1
9/16/92 13:45	203	1
9/17/92 8:30	204	2.5
9/17/92 8:30	204	2.5
9/17/92 8:30	204	2.5
9/17/92 8:35	204	2.5
9/17/92 8:35	204	2.5
9/17/92 14:00	204	1
9/17/92 14:00	204	1
9/18/92 9:00	205	2.5
9/18/92 9:00	205	2.5
9/18/92 9:05	205	2.5
9/18/92 9:05	205	2.5
9/18/92 9:05	205	2.5
9/18/92 13:30	205	1
9/18/92 13:30	205	1
9/19/92 9:00	206	2.5
9/19/92 9:00	206	2.5
9/19/92 9:05	206	2.5
9/19/92 9:05	206	2.5
9/19/92 9:05	206	2.5
9/20/92 10:30	207	2
9/20/92 10:30	207	2

DATE DAYS PSI PRESSEXT.XLS

9/20/90 10:35	-524	2
9/20/90 10:35	-524	2
9/21/92 10:00	208	1.7
9/21/92 10:00	208	1.7
9/21/92 10:05	208	1.7
9/21/92 10:05	208	1.7
9/21/92 14:00	208	1.5
9/21/92 14:00	208	1.5
9/22/92 8:30	209	2.2
9/22/92 8:30	209	2.2
9/22/92 8:30	209	2.2
9/22/92 8:35	209	2.2
9/22/92 8:35	209	2.2
9/22/92 8:35	209	2.2
9/22/92 13:00	209	1
9/22/92 13:00	209	1
9/23/92 8:30	210	2.5
9/23/92 8:30	210	2.5
9/23/92 8:35	210	2.5
9/23/92 8:35	210	2.5
9/23/92 13:00	210	1
9/23/92 13:00	210	1
9/24/92 8:15	211	3
9/24/92 8:15	211	3
9/24/92 8:20	211	3
9/24/92 8:20	211	3
9/24/92 13:00	211	3
9/24/92 13:00	211	3
9/24/92 13:00	211	3
9/27/92 8:30	214	2.7
9/27/92 8:30	214	2.7
9/27/92 8:35	214	2.7
9/27/92 8:35	214	2.7
9/28/92 8:00	215	2.5
9/28/92 8:00	215	2.5
9/28/92 8:05	215	2.5
9/28/92 8:05	215	2.5
9/28/92 13:00	215	1.3
9/28/92 13:00	215	1.3
9/29/92 8:30	216	2.5
9/29/92 8:30	216	2.5
9/29/92 8:30	216	2.5
9/29/92 8:35	216	2.5
9/29/92 8:35	216	2.5
9/29/92 14:30	216	1.5
9/29/92 14:30	216	1.5
10/1/92 9:30	218	3
10/1/92 9:30	218	3
10/1/92 9:35	218	3
10/1/92 9:35	218	3
10/1/92 14:00	218	1.8
10/1/92 14:00	218	1.8

DATE	DAYS	PSI	PRESSEXT.XLS
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10/2/92 8:30		219	3
10/2/92 8:30		219	3
10/2/92 8:35		219	3
10/2/92 8:35		219	3
10/2/92 13:00		219	2
10/2/92 13:00		219	2
10/2/92 13:00		219	2
10/3/92 9:30		220	2.3
10/3/92 9:30		220	2.3
10/3/92 9:35		220	2.3
10/3/92 9:35		220	2.3
10/4/92 8:28		221	2.5
10/4/92 8:28		221	2.5
10/4/92 8:28		221	2.5
10/4/92 8:30		221	2.5
10/4/92 8:30		221	2.5
10/5/92 8:30		222	2.5
10/5/92 8:30		222	2.5
10/5/92 8:35		222	2.5
10/5/92 8:35		222	2.5
10/5/92 13:30		222	2.5
10/5/92 13:30		222	2.5
10/6/92 9:00		223	2.9
10/6/92 9:00		223	2.9
10/6/92 9:00		223	2.9
10/6/92 9:05		223	2.9
10/6/92 9:05		223	2.9
10/6/92 13:30		223	2
10/6/92 13:30		223	2
10/7/92 9:00		224	3
10/7/92 9:00		224	3
10/7/92 9:05		224	3
10/7/92 9:05		224	3
10/7/92 13:30		224	1.7
10/7/92 13:30		224	1.7
10/7/92 13:30		224	1.7
10/8/92 9:30		225	2.7
10/8/92 9:30		225	2.7
10/8/92 9:35		225	2.7
10/8/92 9:35		225	2.7
10/8/92 14:00		225	2.5
10/8/92 14:00		225	2.5
10/9/92 9:00		226	2
10/9/92 9:00		226	2
10/9/92 9:05		226	2
10/9/92 9:05		226	2
10/9/92 13:30		226	1
10/9/92 13:30		226	1
10/10/92 10:30		227	2.5
10/10/92 10:30		227	2.5
10/10/92 10:35		227	2.5
10/10/92 10:35		227	2.5

DATE	DAYS	PSI	PRESSEXT.XLS
10/11/92 9:30		228	2.9
10/11/92 9:30		228	2.9
10/11/92 9:35		228	2.9
10/11/92 9:35		228	2.9
10/15/92 10:00		232	2
10/15/92 10:00		232	2
10/15/92 10:05		232	2
10/15/92 10:05		232	2
10/15/92 13:00		232	1.4
10/15/92 13:00		232	1.4
10/15/92 13:00		232	1.4
10/15/92 13:00		232	1.4
10/16/92 9:00		233	2.8
10/16/92 9:00		233	2.8
10/16/92 9:05		233	2.8
10/16/92 9:05		233	2.8
10/16/92 13:00		233	1.5
10/16/92 13:00		233	1.5
10/17/92 9:23		234	2.7
10/17/92 9:23		234	2.7
10/17/92 9:27		234	2.7
10/17/92 9:27		234	2.7
10/18/92 9:30		235	2.8
10/18/92 9:30		235	2.8
10/18/92 9:35		235	2.8
10/18/92 9:35		235	2.8
10/19/92 9:30		236	3
10/19/92 9:30		236	3
10/19/92 9:30		236	3
10/19/92 9:35		236	3
10/19/92 9:35		236	3
10/19/92 13:30		236	2
10/19/92 13:30		236	2
10/19/92 13:30		236	2
10/20/92 9:30		237	3.2
10/20/92 9:30		237	3.2
10/20/92 9:35		237	3.2
10/20/92 9:35		237	3.2
10/20/92 13:30		237	2
10/20/92 13:30		237	2
10/21/92 9:30		238	2.5
10/21/92 9:30		238	2.5
10/21/92 9:35		238	2.5
10/21/92 9:35		238	2.5
10/21/92 13:00		238	1.5
10/21/92 13:00		238	1.5
10/22/92 9:00		239	2.8
10/22/92 9:00		239	2.8
10/22/92 9:05		239	2.8
10/22/92 9:05		239	2.8
10/22/92 9:05		239	2.8
10/22/92 12:00		239	2

DATE DAYS PSI PRESSEXT.XLS

10/22/92 12:00	239	2
10/22/92 12:00	239	2
10/23/92 9:30	240	2.9
10/23/92 9:30	240	2.9
10/23/92 9:35	240	2.9
10/23/92 9:35	240	2.9
10/23/92 14:00	240	1.8
10/23/92 14:00	240	1.8
10/24/92 10:30	241	2.2
10/24/92 10:30	241	2.2
10/24/92 10:35	241	2.2
10/24/92 10:35	241	2.2
10/24/92 17:00	241	1.5
10/25/92 9:07	242	2.5
10/25/92 9:07	242	2.5
10/25/92 9:07	242	2.5
10/25/92 9:09	242	2.5
10/25/92 9:09	242	2.5
10/25/92 15:00	242	2.5
10/26/92 9:00	243	2.1
10/26/92 9:00	243	2.1
10/26/92 9:05	243	2.1
10/26/92 9:05	243	2.1
10/26/92 15:00	243	1
10/26/92 15:00	243	1
10/27/92 9:00	244	2
10/27/92 9:00	244	2
10/27/92 9:05	244	2
10/27/92 9:05	244	2
10/27/92 9:05	244	2
10/27/92 14:30	244	1
10/27/92 14:30	244	1
10/28/92 9:07	245	2.5
10/28/92 9:07	245	2.5
10/28/92 9:09	245	2.5
10/28/92 9:09	245	2.5
10/28/92 13:30	245	1
10/28/92 13:30	245	1
10/28/92 13:30	245	1
10/29/92 9:00	246	2
10/29/92 9:00	246	2
10/29/92 9:00	246	2
10/29/92 9:05	246	2
10/29/92 9:05	246	2
10/29/92 13:00	246	1.5
10/29/92 13:00	246	1.5
10/30/92 10:25	247	1.5
10/30/92 10:25	247	1.5
10/30/92 10:32	247	1.5
10/30/92 10:32	247	1.5
10/30/92 18:00	247	2.5
10/30/92 18:00	247	2.5

DATE	DAYS	PSI	PRESSEXT.XLS
10/31/92 11:00		248	1.6
10/31/92 11:00		248	1.6
10/31/92 11:00		248	1.6
10/31/92 11:05		248	1.6
10/31/92 11:05		248	1.6
11/1/92 14:00		249	1
11/1/92 14:00		249	1
11/1/92 14:05		249	1
11/1/92 14:05		249	1
11/1/92 14:05		249	1
11/2/92 10:00		250	2
11/2/92 10:00		250	2
11/2/92 10:05		250	2
11/2/92 10:05		250	2
11/2/92 15:00		250	2
11/2/92 15:00		250	2
11/3/92 9:30		251	2
11/3/92 9:30		251	2
11/3/92 9:35		251	2
11/3/92 9:35		251	2
11/3/92 17:30		251	2
11/3/92 17:30		251	2
11/4/92 9:33		252	2.5
11/4/92 9:33		252	2.5
11/4/92 9:33		252	2.5
11/4/92 9:36		252	2.5
11/4/92 9:36		252	2.5
11/4/92 14:00		252	1.5
11/4/92 14:00		252	1.5
11/5/92 9:30		253	2.5
11/5/92 9:30		253	2.5
11/5/92 9:30		253	2.5
11/5/92 9:35		253	2.5
11/5/92 9:35		253	2.5
11/5/92 13:00		253	2
11/5/92 13:00		253	2
11/6/92 9:30		254	2.5
11/6/92 9:30		254	2.5
11/6/92 9:30		254	2.5
11/6/92 9:35		254	2.5
11/6/92 9:35		254	2.5
11/6/92 14:00		254	2
11/6/92 14:00		254	2
11/7/92 9:30		255	3
11/7/92 9:30		255	3
11/7/92 9:35		255	3
11/7/92 9:35		255	3
11/8/92 10:30		256	2.5
11/8/92 10:30		256	2.5
11/8/92 10:30		256	2.5
11/8/92 10:30		256	2.5
11/8/92 10:33		256	2.5

DATE DAYS PSI

PRESSEXT.XLS

11/9/92 9:30	257	2.8
11/9/92 9:30	257	2.8
11/9/92 9:35	257	2.8
11/9/92 9:35	257	2.8
11/9/92 13:30	257	2.4
11/9/92 13:30	257	2.4
11/10/92 10:00	258	2.6
11/10/92 10:00	258	2.6
11/10/92 10:05	258	2.6
11/10/92 10:05	258	2.6
11/10/92 14:00	258	2.5
11/10/92 14:00	258	2.5
11/11/92 19:32	259	2.5
11/11/92 19:32	259	2.5
11/11/92 19:34	259	2.5
11/11/92 19:34	259	2.5
11/12/92 9:30	260	2.5
11/12/92 9:30	260	2.5
11/12/92 9:30	260	2.5
11/12/92 9:30	260	2.5
11/12/92 9:35	260	2.5
11/12/92 9:35	260	2.5
11/12/92 13:00	260	2
11/12/92 13:00	260	2
11/13/92 9:30	261	2.3
11/13/92 9:30	261	2.3
11/13/92 9:35	261	2.3
11/13/92 9:35	261	2.3
11/13/92 13:00	261	2
11/13/92 13:00	261	2
11/14/92 15:00	262	2
11/14/92 15:00	262	2
11/14/92 15:05	262	2
11/14/92 15:05	262	2
11/15/92 13:00	263	2
11/15/92 13:00	263	2
11/15/92 13:05	263	2
11/15/92 13:05	263	2
11/16/92 9:30	264	3.1
11/16/92 9:30	264	3.1
11/16/92 9:35	264	3.1
11/16/92 9:35	264	3.1
11/16/92 13:00	264	2.5
11/16/92 13:00	264	2.5
11/17/92 10:00	265	2.5
11/17/92 10:00	265	2.5
11/17/92 10:00	265	2.5
11/17/92 10:00	265	2.5
11/17/92 10:05	265	2.5
11/17/92 10:05	265	2.5
11/17/92 14:30	265	1.6
11/17/92 14:30	265	1.6

DATE	DAYS	PSI	PRESSEXT.XLS
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11/18/92 9:00	266	2.5
11/18/92 9:00	266	2.5
11/18/92 9:05	266	2.5
11/18/92 9:05	266	2.5
11/18/92 13:00	266	1.5
11/18/92 13:00	266	1.5
11/19/92 9:00	267	2.3
11/19/92 9:00	267	2.3
11/19/92 9:05	267	2.3
11/19/92 9:05	267	2.3
11/19/92 13:00	267	1.5
11/19/92 13:00	267	1.5
11/20/92 10:00	268	3
11/20/92 10:00	268	3
11/20/92 10:05	268	3
11/20/92 10:05	268	3
11/20/92 14:00	268	3
11/20/92 14:00	268	3
11/21/92 12:00	269	2.5
11/21/92 12:00	269	2.5
11/21/92 12:00	269	2.5
11/21/92 12:00	269	2.5
11/21/92 12:05	269	2.5
11/21/92 12:05	269	2.5
11/22/92 12:00	270	2
11/22/92 12:00	270	2
11/22/92 12:05	270	2
11/22/92 12:05	270	2
11/23/92 9:30	271	2.1
11/23/92 9:30	271	2.1
11/23/92 9:35	271	2.1
11/23/92 9:35	271	2.1
11/23/92 13:00	271	1.5
11/23/92 13:00	271	1.5
11/24/92 9:30	272	2.2
11/24/92 9:30	272	2.2
11/24/92 9:35	272	2.2
11/24/92 9:35	272	2.2
11/24/92 13:00	272	2.5
11/24/92 13:00	272	2.5
11/25/92 9:30	273	2.2
11/25/92 9:30	273	2.2
11/25/92 9:30	273	2.2
11/25/92 9:30	273	2.2
11/25/92 9:33	273	2.2
11/25/92 9:33	273	2.2
11/25/92 12:30	273	2
11/25/92 12:30	273	2
11/27/92 9:00	275	2.6
11/27/92 9:00	275	2.6
11/27/92 9:03	275	2.6
11/27/92 9:03	275	2.6

DATE DAYS PSI

PRESSEXT.XLS

11/27/92 13:00	275	2
11/27/92 13:00	275	2
11/28/92 16:00	276	2.5
11/28/92 16:00	276	2.5
11/28/92 16:00	276	2.5
11/28/92 16:03	276	2.5
11/28/92 16:03	276	2.5
11/28/92 16:03	276	2.5
11/29/92 12:00	277	2.3
11/29/92 12:00	277	2.3
11/29/92 12:03	277	2.3
11/29/92 12:03	277	2.3
11/30/92 9:30	278	3
11/30/92 9:30	278	3
11/30/92 9:35	278	3
11/30/92 9:35	278	3
11/30/92 14:00	278	2
11/30/92 14:00	278	2
11/30/92 14:00	278	2
12/1/92 9:30	279	3
12/1/92 9:30	279	3
12/1/92 9:30	279	3
12/1/92 9:35	279	3
12/1/92 9:35	279	3
12/1/92 14:00	279	2
12/1/92 14:00	279	2
12/4/92 10:30	282	2.5
12/4/92 10:30	282	2.5
12/4/92 10:33	282	2.5
12/4/92 10:33	282	2.5
12/4/92 15:30	282	2.3
12/4/92 15:30	282	2.3
12/5/92 11:03	283	2.5
12/5/92 11:03	283	2.5
12/5/92 11:03	283	2.5
12/5/92 11:05	283	2.5
12/5/92 11:05	283	2.5
12/6/92 18:00	284	3
12/6/92 18:00	284	3
12/6/92 18:03	284	3
12/6/92 18:03	284	3
12/7/92 10:30	285	3.2
12/7/92 10:30	285	3.2
12/7/92 10:33	285	3.2
12/7/92 10:33	285	3.2
12/7/92 10:33	285	3.2
12/7/92 15:00	285	2.8
12/7/92 15:00	285	2.8
12/7/92 15:00	285	2.8
12/8/92 10:00	286	2.9
12/8/92 10:00	286	2.9
12/8/92 10:03	286	2.9

DATE DAYS PSI

PRESSEXT.XLS

12/8/92 10:03	286	2.9
12/8/92 14:00	286	2.5
12/8/92 1400	#VALUE!	2.5
12/9/92 9:30	287	3.5
12/9/92 9:30	287	3.5
12/9/92 9:33	287	3.5
12/9/92 9:33	287	3.5
12/9/92 13:30	287	3
12/9/92 13:30	287	3
12/9/92 13:30	287	3
12/10/92 8:30	288	3
12/10/92 8:30	288	3
12/10/92 8:30	288	3
12/10/92 8:33	288	3
12/10/92 8:33	288	3
12/10/92 14:00	288	3
12/10/92 14:00	288	3
12/11/92 9:00	289	3
12/11/92 9:00	289	3
12/11/92 9:03	289	3
12/11/92 9:03	289	3
12/11/92 13:30	289	2.5
12/11/92 13:30	289	2.5
12/12/92 12:00	290	2.5
12/12/92 12:00	290	2.5
12/12/92 12:00	290	2.5
12/12/92 12:03	290	2.5
12/12/92 12:03	290	2.5
12/14/92 10:00	292	3
12/14/92 10:00	292	3
12/14/92 10:03	292	3
12/14/92 10:03	292	3
12/14/92 15:00	292	2.5
12/14/92 15:00	292	2.5
12/15/92 9:30	293	3.5
12/15/92 9:30	293	3.5
12/15/92 9:33	293	3.5
12/15/92 9:33	293	3.5
12/15/92 9:33	293	3.5
12/15/92 13:30	293	3
12/15/92 13:30	293	3
12/16/92 9:00	294	2.7
12/16/92 9:00	294	2.7
12/16/92 9:05	294	2.7
12/16/92 9:05	294	2.7
12/16/92 14:00	294	2
12/16/92 14:00	294	2
12/16/92 14:00	294	2
12/17/92 9:00	295	2.8
12/17/92 9:00	295	2.8
12/17/92 9:03	295	2.8
12/17/92 9:03	295	2.8

DATE DAYS PSI

PRESSEXT.XLS

12/17/92 13:00	295	2.5
12/17/92 13:00	295	2.5
12/18/92 9:30	296	2.5
12/18/92 9:30	296	2.5
12/18/92 9:33	296	2.5
12/18/92 9:33	296	2.5
12/18/92 13:00	296	2.2
12/18/92 13:00	296	2.2
12/19/92 17:30	297	2.8
12/19/92 17:30	297	2.8
12/19/92 17:30	297	2.8
12/19/92 17:33	297	2.8
12/19/92 17:33	297	2.8
12/20/92 10:30	298	2
12/20/92 10:30	298	2
12/20/92 10:35	298	2
12/20/92 10:35	298	2
12/21/92 10:00	299	2.5
12/21/92 10:00	299	2.5
12/21/92 10:05	299	2.5
12/21/92 10:05	299	2.5
12/21/92 14:30	299	2.7
12/21/92 14:30	299	2.7
12/22/92 10:00	300	2.8
12/22/92 10:00	300	2.8
12/22/92 10:05	300	2.8
12/22/92 10:05	300	2.8
12/22/92 13:30	300	2.5
12/22/92 13:30	300	2.5
12/22/92 13:30	300	2.5
12/23/92 9:00	301	2.5
12/23/92 9:00	301	2.5
12/23/92 9:00	301	2.5
12/23/92 9:05	301	2.5
12/23/92 9:05	301	2.5
12/23/92 9:05	301	2.5
12/23/92 14:00	301	2
12/23/92 14:00	301	2
12/24/92 10:30	302	2.5
12/24/92 10:30	302	2.5
12/24/92 10:35	302	2.5
12/24/92 10:35	302	2.5
12/24/92 12:30	302	2.5
12/24/92 12:30	302	2.5
12/26/92 13:00	304	2.5
12/26/92 13:00	304	2.5
12/26/92 13:00	304	2.5
12/26/92 13:00	304	2.5
12/27/92 12:30	305	3.3
12/27/92 12:30	305	3.3
12/28/92 16:30	306	3
12/28/92 16:30	306	3

12/28/92 16:35	306	3
12/28/92 16:35	306	3
12/29/92 11:00	307	2.7
12/29/92 11:00	307	2.7
12/29/92 11:03	307	2.7
12/29/92 11:03	307	2.7
12/29/92 14:00	307	2.5
12/29/92 14:00	307	2.5
12/30/92 10:00	308	2.7
12/30/92 10:00	308	2.7
12/30/92 10:00	308	2.7
12/30/92 10:05	308	2.7
12/30/92 10:05	308	2.7
12/30/92 14:30	308	2.5
12/30/92 14:30	308	2.5
12/31/92 11:00	309	2.5
12/31/92 11:00	309	2.5
12/31/92 11:00	309	2.5
12/31/92 11:05	309	2.5
12/31/92 11:05	309	2.5
12/31/92 12:00	309	2
12/31/92 12:00	309	2
1/2/93 12:00	311	2.5
1/2/93 12:00	311	2.5
1/2/93 12:00	311	2.5
1/2/93 12:03	311	2.5
1/2/93 12:03	311	2.5
1/3/93 15:00	312	2
1/3/93 15:00	312	2
1/3/93 15:03	312	2
1/3/93 15:03	312	2
1/4/93 10:30	313	2.8
1/4/93 10:30	313	2.8
1/4/93 10:33	313	2.8
1/4/93 10:33	313	2.8
1/4/93 14:30	313	2
1/4/93 14:30	313	2
1/5/93 9:30	314	1.8
1/5/93 9:30	314	1.8
1/5/93 9:35	314	1.8
1/5/93 9:35	314	1.8
1/5/93 9:35	314	1.8
1/5/93 14:00	314	1.6
1/5/93 14:00	314	1.6
1/6/93 9:30	315	2.5
1/6/93 9:30	315	2.5
1/6/93 9:30	315	2.5
1/6/93 9:35	315	2.5
1/6/93 9:35	315	2.5
1/6/93 14:30	315	2
1/6/93 14:30	315	2
1/7/93 10:00	316	2.8

DATE DAYS PSI

PRESSEXT.XLS

1/7/93 10:00	316	2.8
1/7/93 10:03	316	2.8
1/7/93 10:03	316	2.8
1/7/93 13:30	316	2.8
1/7/93 13:30	316	2.8
1/8/93 9:30	317	2
1/8/93 9:30	317	2
1/8/93 9:35	317	2
1/8/93 9:35	317	2
1/8/93 9:35	317	2
1/8/93 13:30	317	2.4
1/8/93 13:30	317	2.4
1/9/93 12:00	318	2.5
1/9/93 12:00	318	2.5
1/9/93 12:03	318	2.5
1/9/93 12:03	318	2.5
1/10/93 14:30	319	3
1/10/93 14:30	319	3
1/10/93 14:30	319	3
1/10/93 14:35	319	3
1/10/93 14:35	319	3
1/11/93 11:00	320	3
1/11/93 11:00	320	3
1/11/93 11:05	320	3
1/11/93 11:05	320	3
1/11/93 14:30	320	3
1/11/93 14:30	320	3
1/12/93 11:30	321	3
1/12/93 11:30	321	3
1/12/93 11:30	321	3
1/12/93 11:35	321	3
1/12/93 11:35	321	3
1/12/93 14:30	321	2.6
1/12/93 14:30	321	2.6
1/13/93 8:30	322	2.8
1/13/93 8:30	322	2.8
1/13/93 8:33	322	2.8
1/13/93 8:33	322	2.8
1/14/93 10:30	323	2.5
1/14/93 10:30	323	2.5
1/14/93 10:30	323	2.5
1/14/93 10:35	323	2.5
1/14/93 10:35	323	2.5
1/15/93 10:30	324	3
1/15/93 10:30	324	3
1/15/93 10:35	324	3
1/15/93 10:35	324	3
1/26/93 16:00	335	3
1/26/93 16:00	335	3
1/26/93 16:00	335	3
1/26/93 16:03	335	3
1/26/93 16:03	335	3

DATE	DAYS	PSI	PRESSEXT.XLS
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1/27/93 10:30	336	3
1/27/93 10:30	336	3
1/27/93 10:33	336	3
1/27/93 10:33	336	3
1/28/93 9:30	337	3
1/28/93 9:30	337	3
1/28/93 9:30	337	3
1/28/93 9:33	337	3
1/28/93 9:33	337	3
1/29/93 8:30	338	2.8
1/29/93 8:30	338	2.8
1/29/93 8:30	338	2.8
1/29/93 8:35	338	2.8
1/29/93 8:35	338	2.8
1/31/93 11:00	340	2
1/31/93 11:00	340	2
1/31/93 11:03	340	2
1/31/93 11:03	340	2
2/1/93 10:30	341	2.8
2/1/93 10:30	341	2.8
2/1/93 10:33	341	2.8
2/1/93 10:33	341	2.8
2/1/93 13:30	341	1.5
2/1/93 13:30	341	1.5
2/1/93 13:30	341	1.5
2/2/93 9:15	342	2.8
2/2/93 9:15	342	2.8
2/2/93 9:17	342	2.8
2/2/93 9:17	342	2.8
2/2/93 14:00	342	2
2/2/93 14:00	342	2
2/2/93 14:00	342	2
2/3/93 9:30	343	3
2/3/93 9:30	343	3
2/3/93 9:35	343	3
2/3/93 9:35	343	3
2/3/93 15:00	343	2
2/3/93 15:00	343	2
2/4/93 10:00	344	2
2/4/93 10:00	344	2
2/4/93 10:00	344	2
2/4/93 10:03	344	2
2/4/93 10:03	344	2
2/4/93 15:00	344	1.5
2/4/93 15:00	344	1.5
2/5/93 10:00	345	2.8
2/5/93 10:00	345	2.8
2/5/93 10:03	345	2.8
2/5/93 10:03	345	2.8
2/5/93 15:30	345	2.5
2/5/93 15:30	345	2.5
2/5/93 15:30	345	2.5

DATE DAYS PSI PRESSEXT.XLS

2/7/93 15:00	347	3
2/7/93 15:00	347	3
2/7/93 15:03	347	3
2/7/93 15:03	347	3
2/8/93 10:30	348	2.8
2/8/93 10:30	348	2.8
2/8/93 10:30	348	2.8
2/8/93 10:33	348	2.8
2/8/93 10:33	348	2.8
2/8/93 15:00	348	2
2/8/93 15:00	348	2
2/9/93 10:30	349	2.5
2/9/93 10:30	349	2.5
2/9/93 10:33	349	2.5
2/9/93 10:33	349	2.5
2/10/93 13:00	350	2.8
2/10/93 13:00	350	2.8
2/10/93 13:05	350	2.8
2/10/93 13:05	350	2.8
2/11/93 9:00	351	2.5
2/11/93 9:00	351	2.5
2/11/93 9:00	351	2.5
2/11/93 9:03	351	2.5
2/11/93 9:03	351	2.5
2/11/93 14:00	351	1.5
2/11/93 14:00	351	1.5
2/12/93 10:00	352	2
2/12/93 10:00	352	2
2/12/93 10:03	352	2
2/12/93 10:03	352	2
2/12/93 16:00	352	2
2/12/93 16:00	352	2
2/13/93 11:30	353	2
2/13/93 11:30	353	2
2/13/93 11:33	353	2
2/13/93 11:33	353	2
2/14/93 19:00	354	2.5
2/14/93 19:00	354	2.5
2/14/93 19:03	354	2.5
2/14/93 19:03	354	2.5
2/15/93 9:00	355	3
2/15/93 9:00	355	3
2/15/93 9:00	355	3
2/15/93 9:00	355	3
2/15/93 9:03	355	3
2/15/93 9:03	355	3
2/15/93 14:30	355	2
2/15/93 14:30	355	2
2/16/93 9:00	356	2
2/16/93 9:00	356	2
2/16/93 9:05	356	2
2/16/93 9:05	356	2

DATE	DAYS	PSI	PRESSEXT.XLS
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2/16/93 14:30		356	2
2/16/93 14:30		356	2
2/17/93 9:00		357	3
2/17/93 9:00		357	3
2/17/93 9:05		357	3
2/17/93 9:05		357	3
2/17/93 15:00		357	2
2/17/93 15:00		357	2
2/18/93 10:00		358	2.5
2/18/93 10:00		358	2.5
2/18/93 10:05		358	2.5
2/18/93 10:05		358	2.5
2/18/93 10:05		358	2.5
2/18/93 10:05		358	2.5
2/18/93 14:00		358	2
2/18/93 14:00		358	2
2/19/93 9:30		359	3.2
2/19/93 9:30		359	3.2
2/19/93 9:35		359	3.2
2/19/93 9:35		359	3.2
2/19/93 14:00		359	2
2/19/93 14:00		359	2
2/19/93 14:00		359	2
2/24/93 11:00		364	2.5
2/24/93 11:00		364	2.5
2/24/93 11:05		364	2.5
2/24/93 11:05		364	2.5
2/24/93 15:50		364	2
2/24/93 15:50		364	2
2/25/93 9:30		365	3
2/25/93 9:30		365	3
2/25/93 9:33		365	3
2/25/93 9:33		365	3
2/25/93 9:33		365	3
2/25/93 13:55		365	3
2/25/93 13:55		365	3
2/25/93 13:55		365	3
2/26/93 9:30		366	3
2/26/93 9:30		366	3
2/26/93 9:35		366	3
2/26/93 9:35		366	3
2/26/93 13:30		366	2.8
2/26/93 13:30		366	2.8
2/27/93 13:00		367	2
2/27/93 13:00		367	2
2/27/93 13:03		367	2
2/27/93 13:03		367	2
2/27/93 13:03		367	2
2/28/93 10:00		368	2.8
2/28/93 10:00		368	2.8
2/28/93 10:00		368	2.8
2/28/93 10:05		368	2.8

DATE DAYS PSI PRESSEXT.XLS

2/28/93 10:05	368	2.8
2/28/93 15:45	368	2
2/28/93 15:45	368	2
3/1/93 10:00	369	2
3/1/93 10:00	369	2
3/1/93 10:05	369	2
3/1/93 10:05	369	2
3/1/93 15:00	369	1
3/1/93 15:00	369	1
3/2/93 8:30	370	2.8
3/2/93 8:30	370	2.8
3/2/93 8:35	370	2.8
3/2/93 8:35	370	2.8
3/2/93 15:00	370	2
3/2/93 15:00	370	2
3/3/93 10:00	371	2.5
3/3/93 10:00	371	2.5
3/3/93 10:05	371	2.5
3/3/93 10:05	371	2.5
3/3/93 10:05	371	2.5
3/3/93 14:00	371	2
3/3/93 14:00	371	2
3/3/93 14:00	371	2
3/4/93 10:00	372	2
3/4/93 10:00	372	2
3/4/93 10:05	372	2
3/4/93 10:05	372	2
3/4/93 13:30	372	2
3/4/93 13:30	372	2
3/4/93 17:00	372	2
3/5/93 9:30	373	2.5
3/5/93 9:30	373	2.5
3/5/93 9:35	373	2.5
3/5/93 9:35	373	2.5
3/5/93 9:35	373	2.5
3/5/93 14:30	373	2
3/5/93 14:30	373	2
3/5/93 14:30	373	2
3/6/93 10:00	374	2.5
3/6/93 10:00	374	2.5
3/6/93 10:00	374	2.5
3/6/93 10:03	374	2.5
3/6/93 10:03	374	2.5
3/6/93 16:30	374	1.7
3/6/93 16:30	374	1.7
3/7/93 13:00	375	1
3/7/93 13:00	375	1
3/7/93 13:03	375	1
3/7/93 13:03	375	1
3/8/93 10:30	376	2.5
3/8/93 10:30	376	2.5
3/8/93 10:35	376	2.5

DATE DAYS PSI PRESSEXT.XLS

3/8/93 10:35	376	2.5
3/8/93 16:00	376	1.2
3/8/93 16:00	376	1.2
3/9/93 10:00	377	1.5
3/9/93 10:00	377	1.5
3/9/93 10:05	377	1.5
3/9/93 10:05	377	1.5
3/9/93 10:05	377	1.5
3/9/93 14:00	377	1
3/9/93 14:00	377	1
3/9/93 14:00	377	1
3/10/93 9:30	378	2
3/10/93 9:30	378	2
3/10/93 9:33	378	2
3/10/93 9:33	378	2
3/10/93 13:00	378	1
3/10/93 13:00	378	1
3/11/93 8:00	379	2.5
3/11/93 8:00	379	2.5
3/11/93 8:03	379	2.5
3/11/93 8:03	379	2.5
3/11/93 12:00	379	1.5
3/11/93 12:00	379	1.5
3/12/93 10:00	380	2.5
3/12/93 10:00	380	2.5
3/12/93 10:00	380	2.5
3/12/93 10:00	380	2.5
3/12/93 10:05	380	2.5
3/12/93 10:05	380	2.5
3/12/93 14:00	380	2.5
3/12/93 14:00	380	2.5
3/13/93 13:00	381	3
3/13/93 13:00	381	3
3/13/93 13:03	381	3
3/13/93 13:03	381	3
3/13/93 13:03	381	3
3/14/93 15:00	382	2.5
3/14/93 15:00	382	2.5
3/14/93 15:03	382	2.5
3/14/93 15:03	382	2.5
3/14/93 15:03	382	2.5
3/15/93 14:00	383	2
3/15/93 14:00	383	2
3/15/93 14:05	383	2
3/15/93 14:05	383	2
3/16/93 9:30	384	2.8
3/16/93 9:30	384	2.8
3/16/93 9:33	384	2.8
3/16/93 9:33	384	2.8
3/16/93 15:30	384	2
3/16/93 15:30	384	2
3/17/93 9:00	385	2

DATE DAYS PSI PRESSEXT.XLS

3/17/93 9:00	385	2
3/17/93 9:03	385	2
3/17/93 9:03	385	2
3/17/93 13:00	385	2
3/17/93 13:00	385	2
3/17/93 13:00	385	2
3/18/93 9:00	386	2.5
3/18/93 9:00	386	2.5
3/18/93 9:03	386	2.5
3/18/93 9:03	386	2.5
3/18/93 9:03	386	2.5
3/18/93 13:00	386	1.5
3/18/93 13:00	386	1.5
3/19/93 10:30	387	2.5
3/19/93 10:30	387	2.5
3/19/93 10:30	387	2.5
3/19/93 10:30	387	2.5
3/19/93 10:33	387	2.5
3/19/93 10:33	387	2.5
3/19/93 14:00	387	1.5
3/19/93 14:00	387	1.5
3/20/93 9:30	388	2.5
3/20/93 9:30	388	2.5
3/20/93 9:33	388	2.5
3/20/93 9:33	388	2.5
3/20/93 13:00	388	2
3/20/93 13:00	388	2
3/21/93 9:30	389	2
3/21/93 9:30	389	2
3/21/93 9:30	389	2
3/21/93 9:33	389	2
3/21/93 9:33	389	2
3/22/93 9:30	390	2
3/22/93 9:30	390	2
3/22/93 9:33	390	2
3/22/93 9:33	390	2
3/22/93 15:00	390	2
3/22/93 15:00	390	2
3/23/93 11:00	391	2
3/23/93 11:00	391	2
3/23/93 11:00	391	2
3/23/93 11:03	391	2
3/23/93 11:03	391	2
3/23/93 15:00	391	1.5
3/23/93 15:00	391	1.5
3/24/93 7:00	392	2
3/24/93 7:00	392	2
3/24/93 7:05	392	2
3/24/93 7:05	392	2
3/24/93 16:00	392	1
3/24/93 16:00	392	1
3/24/93 16:00	392	1

DATE DAYS PSI PRESSEXT.XLS

3/25/93 9:30	393	1
3/25/93 9:30	393	1
3/25/93 9:30	393	1
3/25/93 9:33	393	1
3/25/93 9:33	393	1
3/25/93 13:30	393	0.5
3/25/93 13:30	393	0.5
3/26/93 9:00	394	2.2
3/26/93 9:00	394	2.2
3/26/93 9:03	394	2.2
3/26/93 9:03	394	2.2
3/26/93 13:00	394	2.1
3/26/93 13:00	394	2.1
3/27/93 11:00	395	2
3/27/93 11:00	395	2
3/27/93 11:03	395	2
3/27/93 11:03	395	2
3/28/93 9:00	396	2
3/28/93 9:00	396	2
3/28/93 9:00	396	2
3/28/93 9:03	396	2
3/28/93 9:03	396	2
3/28/93 13:00	396	2
3/28/93 13:00	396	2
3/29/93 10:00	397	1
3/29/93 10:00	397	1
3/29/93 10:05	397	1
3/29/93 10:05	397	1
3/29/93 18:33	397	1
3/29/93 18:33	397	1
3/30/93 9:00	398	1.5
3/30/93 9:00	398	1.5
3/30/93 9:03	398	1.5
3/30/93 9:03	398	1.5
3/30/93 9:03	398	1.5
3/30/93 17:00	398	1.5
3/30/93 17:00	398	1.5
3/31/93 10:30	399	2.5
3/31/93 10:30	399	2.5
3/31/93 10:33	399	2.5
3/31/93 10:33	399	2.5
3/31/93 10:33	399	2.5
3/31/93 13:00	399	2
3/31/93 13:00	399	2
4/1/93 10:00	400	1
4/1/93 10:00	400	1
4/1/93 10:00	400	1
4/1/93 10:05	400	1
4/1/93 10:05	400	1
4/1/93 13:00	400	1.5
4/1/93 13:00	400	1.5
4/2/93 10:30	401	2.5

DATE	DAYS	PSI	PRESSEXT.XLS
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4/2/93 10:30	401	2.5
4/2/93 10:33	401	2.5
4/2/93 10:33	401	2.5
4/2/93 14:00	401	2
4/2/93 14:00	401	2
4/2/93 14:00	401	2
4/3/93 13:00	402	1.5
4/3/93 13:00	402	1.5
4/3/93 13:03	402	1.5
4/3/93 13:03	402	1.5
4/3/93 13:03	402	1.5
4/4/93 14:00	403	1
4/4/93 14:00	403	1
4/4/93 14:03	403	1
4/4/93 14:03	403	1
4/5/93 11:00	404	2.5
4/5/93 11:00	404	2.5
4/5/93 11:03	404	2.5
4/5/93 11:03	404	2.5
4/5/93 11:03	404	2.5
4/5/93 16:00	404	2.5
4/5/93 16:00	404	2.5
4/6/93 11:30	405	2.2
4/6/93 11:30	405	2.2
4/6/93 11:33	405	2.2
4/6/93 11:33	405	2.2
4/6/93 13:30	405	2
4/6/93 13:30	405	2
4/7/93 10:00	406	2.5
4/7/93 10:00	406	2.5
4/7/93 10:03	406	2.5
4/7/93 10:03	406	2.5
4/7/93 10:03	406	2.5
4/7/93 13:00	406	2
4/7/93 13:00	406	2
4/8/93 10:00	407	1.5
4/8/93 10:00	407	1.5
4/8/93 10:05	407	1.5
4/8/93 10:05	407	1.5
4/8/93 17:30	407	0.5
4/8/93 17:30	407	0.5
4/8/93 17:30	407	0.5
4/9/93 13:15	408	1.6
4/9/93 13:15	408	1.6
4/9/93 13:18	408	1.6
4/9/93 13:18	408	1.6
4/9/93 16:00	408	2
4/9/93 16:00	408	2
4/9/93 16:00	408	2
4/10/93 12:00	409	1.5
4/10/93 12:00	409	1.5
4/10/93 12:03	409	1.5

DATE DAYS PSI PRESSEXT.XLS

4/10/93 12:03	409	1.5
4/11/93 10:30	410	2.5
4/11/93 10:30	410	2.5
4/11/93 10:33	410	2.5
4/11/93 10:33	410	2.5
4/11/93 20:00	410	1.5
4/11/93 20:00	410	1.5
4/12/93 10:08	411	1.2
4/12/93 10:08	411	1.2
4/12/93 10:08	411	1.2
4/12/93 10:11	411	1.2
4/12/93 10:11	411	1.2
4/12/93 12:15	411	0.5
4/12/93 12:15	411	0.5
4/13/93 11:00	412	1
4/13/93 11:00	412	1
4/13/93 11:03	412	1
4/13/93 11:03	412	1
4/13/93 15:30	412	2
4/13/93 15:30	412	2
4/14/93 11:00	413	1
4/14/93 11:00	413	1
4/14/93 11:00	413	1
4/14/93 11:05	413	1
4/14/93 11:05	413	1
4/14/93 14:00	413	0.5
4/14/93 14:00	413	0.5
4/15/93 10:00	414	1.5
4/15/93 10:00	414	1.5
4/15/93 10:03	414	1.5
4/15/93 10:03	414	1.5
4/15/93 10:03	414	1.5
4/15/93 17:00	414	2
4/15/93 17:00	414	2
4/15/93 17:00	414	2
4/16/93 10:30	415	2
4/16/93 10:30	415	2
4/16/93 10:33	415	2
4/16/93 10:33	415	2
4/16/93 10:33	415	2
4/16/93 16:30	415	1
4/16/93 16:30	415	1
4/17/93 11:00	416	2
4/17/93 11:00	416	2
4/17/93 11:03	416	2
4/17/93 11:03	416	2
4/17/93 13:00	416	2.1
4/17/93 13:00	416	2.1
4/18/93 12:00	417	1.5
4/18/93 12:00	417	1.5
4/18/93 12:00	417	1.5
4/18/93 12:05	417	1.5

DATE DAYS PSI

PRESSEXT.XLS

4/18/93 12:05	417	1.5
4/19/93 7:30	418	2.5
4/19/93 7:30	418	2.5
4/19/93 7:33	418	2.5
4/19/93 7:33	418	2.5
4/19/93 14:30	418	1
4/19/93 14:30	418	1
4/20/93 10:30	419	1.2
4/20/93 10:30	419	1.2
4/20/93 10:30	419	1.2
4/20/93 10:30	419	1.2
4/20/93 10:30	419	1.2
4/20/93 10:33	419	1.2
4/20/93 10:33	419	1.2
4/20/93 13:00	419	0.5
4/20/93 13:00	419	0.5
4/21/93 11:00	420	2
4/21/93 11:00	420	2
4/21/93 11:03	420	2
4/21/93 11:03	420	2
4/21/93 15:00	420	2.5
4/21/93 15:00	420	2.5
4/21/93 15:00	420	2.5
4/22/93 11:30	421	2
4/22/93 11:30	#VALUE!	2
4/22/93 11:33	421	2
4/22/93 11:33	421	2
4/22/93 15:31	421	1
4/22/93 15:31	421	1
4/23/93 10:20	422	1
4/23/93 10:20	422	1
4/23/93 10:23	422	1
4/23/93 10:23	422	1
4/23/93 22:20	423	2.5
4/23/93 22:20	423	2.5
4/24/93 12:00	423	1
4/24/93 12:00	423	1
4/24/93 12:10	423	1
4/24/93 12:10	423	1
4/25/93 7:38	#VALUE!	2.5
4/25/93 7:38	#VALUE!	2.5
4/25/93 7:42	424	2.5
4/25/93 7:42	424	2.5
4/25/93 18:45	424	1
4/25/93 18:45	424	1
4/26/93 9:08	425	2
4/26/93 9:08	425	2
4/26/93 10:45	425	2
4/26/93 10:45	425	2
4/26/93 13:18	425	1
4/26/93 13:18	425	1
4/27/93 7:45	426	2.5

DATE	DAYS	PSI	PRESSEXT.XLS
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4/27/93 7:45	426	2.5
4/27/93 7:45	426	2.5
4/27/93 7:47	426	2.5
4/27/93 7:47	426	2.5
4/27/93 7:47	426	2.5
4/27/93 19:15	426	1
4/27/93 19:15	426	1
4/28/93 9:13	427	2
4/28/93 9:13	427	2
4/28/93 9:15	427	2
4/28/93 9:15	427	2
4/28/93 12:10	427	1.5
4/28/93 12:10	427	1.5
4/28/93 12:12	427	1.5
4/28/93 12:12	427	1.5
4/29/93 8:15	428	2.5
4/29/93 8:15	428	2.5
4/29/93 8:18	428	2.5
4/29/93 8:18	428	2.5
4/29/93 16:08	428	1
4/29/93 16:08	428	1
4/29/93 16:08	428	1
4/30/93 9:12	429	2.5
4/30/93 9:12	429	2.5
4/30/93 9:15	429	2.5
4/30/93 9:15	429	2.5
4/30/93 17:26	429	1
4/30/93 17:26	429	1

WSRC DATA & CHART

FLOW VELOCITY ON EXTRACTION LINE

DATE	DAYS	FLOW VELOCITY (FPM)
2/26/92 10:20	0	0
2/26/92 10:42	0	7900
2/26/92 10:47	0	7900
2/26/92 10:51	0	7900
2/26/92 10:59	0	7900
2/26/92 11:20	0	7900
2/26/92 11:26	0	7900
2/26/92 12:20	0	7900
2/26/92 12:28	0	7900
2/26/92 13:26	0	7900
2/26/92 13:38	0	7900
2/26/92 15:20	0	7900
2/26/92 15:25	0	7900
2/26/92 19:30	0	7900
2/26/92 19:50	0	7900
2/26/92 20:30	0	7900
2/26/92 23:20	1	7900
2/26/92 23:25	1	7900
2/27/92 3:20	1	7900
2/27/92 3:23	1	7900
2/27/92 7:20	1	7900
2/27/92 7:23	1	7900
2/27/92 11:22	1	7900
2/27/92 11:27	1	7900
2/27/92 15:22	1	7900
2/27/92 15:26	1	7900
2/27/92 17:20	1	7900
2/27/92 18:10	1	7900
2/28/92 6:20	2	7900
2/28/92 6:23	2	7900
2/28/92 12:15	2	7900
2/28/92 18:20	2	7900
2/28/92 18:20	2	7900
2/29/92 7:05	3	7900
2/29/92 7:10	3	7900
2/29/92 19:10	3	7900
2/29/92 19:15	3	7900
3/1/92 3:05	4	7900
3/1/92 3:12	4	7900
3/1/92 15:00	4	7900
3/1/92 15:05	4	7900
3/2/92 7:45	5	8000
3/2/92 7:50	5	8000
3/2/92 19:00	5	8000
3/2/92 19:05	5	8000

DATE DAYS FPM

FLOWEXT.XLS

3/5/92 23:45	9	8000
3/5/92 23:48	9	8000
3/6/92 0:45	9	8000
3/6/92 2:45	9	8000
3/6/92 2:50	9	8000
3/6/92 6:45	9	8000
3/6/92 10:45	9	8000
3/6/92 10:50	9	8000
3/6/92 14:45	9	8000
3/6/92 14:46	9	8000
3/7/92 7:45	10	8000
3/7/92 7:50	10	8000
3/7/92 16:45	10	8000
3/8/92 7:45	11	8000
3/8/92 7:50	11	8000
3/8/92 16:45	11	8000
3/9/92 7:45	12	8000
3/9/92 7:50	12	8000
3/9/92 16:45	12	8000
3/9/92 16:45	12	8000
3/10/92 7:45	13	7900
3/10/92 7:50	13	7900
3/10/92 10:00	13	7900
3/10/92 16:45	13	7900
3/11/92 7:45	14	7600
3/11/92 7:50	14	7600
3/11/92 16:45	14	7600
3/12/92 7:45	15	7600
3/12/92 7:50	15	7600
3/12/92 7:50	15	7600
3/12/92 15:45	15	8000
3/13/92 7:45	16	7700
3/13/92 7:50	16	7700
3/13/92 16:45	16	7700
3/14/92 7:45	17	8000
3/14/92 7:50	17	8000
3/14/92 15:45	17	8100
3/15/92 7:30	18	8000
3/15/92 7:35	18	8000
3/15/92 16:15	18	8000
3/16/92 7:35	19	8000
3/16/92 7:40	19	8000
3/16/92 7:40	19	8000
3/16/92 15:50	19	8000
3/17/92 7:50	20	8000
3/17/92 7:55	20	8000
3/17/92 16:30	20	8000
3/18/92 7:50	21	8000
3/18/92 7:55	21	8000
3/18/92 17:00	21	8000
3/19/92 7:45	22	8000
3/19/92 7:50	22	8000

DATE DAYS FPM

FLOWEXT.XLS

3/19/92 14:30	22	8000
3/20/92 8:00	23	8000
3/20/92 8:05	23	8000
3/20/92 17:00	23	8000
3/21/92 7:45	24	8000
3/21/92 7:50	24	8000
3/21/92 7:50	24	8000
3/21/92 16:00	24	8000
3/22/92 7:40	25	8000
3/22/92 7:45	25	8000
3/22/92 15:45	25	8000
3/23/92 7:45	26	8000
3/23/92 7:50	26	8000
3/23/92 15:00	26	8000
3/24/92 8:00	27	7900
3/24/92 8:00	27	7900
3/24/92 8:05	27	7900
3/24/92 16:45	27	8000
3/25/92 8:00	28	8000
3/25/92 8:05	28	8000
3/25/92 16:30	28	8000
3/26/92 7:00	29	8000
3/26/92 7:05	29	8000
3/26/92 16:00	29	8000
3/27/92 8:00	30	8000
3/27/92 8:05	30	8000
3/27/92 17:00	30	8000
3/28/92 6:55	31	8000
3/28/92 7:00	31	8000
3/28/92 14:00	31	8000
3/29/92 6:50	32	8000
3/29/92 6:55	32	8000
3/29/92 14:55	32	8000
4/2/92 15:00	36	8100
4/2/92 15:01	36	8100
4/2/92 15:05	36	8100
4/2/92 17:00	36	8000
4/2/92 17:05	36	8000
4/2/92 19:00	36	8000
4/3/92 8:00	37	8000
4/3/92 8:05	37	8000
4/3/92 16:05	37	8200
4/4/92 6:45	38	8000
4/4/92 6:50	38	8000
4/5/92 8:00	39	8000
4/5/92 8:05	39	8000
4/5/92 15:00	39	8000
4/5/92 15:00	39	8000
4/6/92 9:00	40	8000
4/6/92 9:05	40	8000
4/6/92 16:00	40	7900
4/7/92 9:00	41	8000

DATE DAYS FPM FLOWTEXT.XLS

4/7/92 9:05	41	8000
4/7/92 16:00	41	7900
4/8/92 8:55	42	7800
4/8/92 9:00	42	7800
4/8/92 16:00	42	7900
4/9/92 7:00	43	8000
4/9/92 7:00	43	8000
4/9/92 7:05	43	8000
4/9/92 16:00	43	8000
4/10/92 7:00	44	8000
4/10/92 7:05	44	8000
4/10/92 15:00	44	8000
4/10/92 15:00	44	8000
4/11/92 7:00	45	8000
4/11/92 7:05	45	8000
4/11/92 13:00	45	8000
4/12/92 7:00	46	8000
4/12/92 7:05	46	8000
4/12/92 13:55	46	8000
4/13/92 8:00	47	7900
4/13/92 8:05	47	7900
4/13/92 16:00	47	8000
4/14/92 8:00	48	7900
4/14/92 8:00	48	7900
4/14/92 8:05	48	7900
4/14/92 16:00	48	8000
4/15/92 8:00	49	8000
4/15/92 8:05	49	8000
4/15/92 15:00	49	8000
4/16/92 7:00	50	8000
4/16/92 7:05	50	8000
4/16/92 15:55	50	8000
4/17/92 8:00	51	7900
4/17/92 8:05	51	7900
4/17/92 14:00	51	7900
4/18/92 7:00	52	8000
4/18/92 7:05	52	8000
4/18/92 13:00	52	8000
4/19/92 7:00	53	7900
4/19/92 7:00	53	7900
4/19/92 7:05	53	7900
4/19/92 14:05	53	7900
4/20/92 7:00	54	7900
4/20/92 7:05	54	7900
4/20/92 9:00	54	7900
4/20/92 16:00	54	7900
4/21/92 9:00	55	7900
4/21/92 9:05	55	7900
4/21/92 16:00	55	7900
4/22/92 8:00	56	7900
4/22/92 8:00	56	7900
4/22/92 8:05	56	7900

DATE DAYS FPM

FLOWTEXT.XLS

4/22/92 16:00	56	8000
4/23/92 9:00	57	8000
4/23/92 9:05	57	8000
4/23/92 16:00	57	8000
4/23/92 16:05	57	8000
4/24/92 9:00	58	8000
4/24/92 9:00	58	8000
4/24/92 9:05	58	8000
4/24/92 14:00	58	8000
4/26/92 8:00	60	8000
4/26/92 8:05	60	8000
4/26/92 14:00	60	8000
4/27/92 8:00	61	7900
4/27/92 8:00	61	7900
4/27/92 8:05	61	7900
4/27/92 8:05	61	7900
4/27/92 15:00	61	7900
4/27/92 15:00	61	7900
4/28/92 8:00	62	7900
4/28/92 8:00	62	7900
4/28/92 8:05	62	7900
4/28/92 8:05	62	7900
4/28/92 8:05	62	7900
4/28/92 8:05	62	7900
4/28/92 15:00	62	8000
4/28/92 15:00	62	8000
4/29/92 8:00	63	7900
4/29/92 8:00	63	7900
4/29/92 8:05	63	7900
4/29/92 8:05	63	7900
4/29/92 15:00	63	8000
4/29/92 15:00	63	8000
4/30/92 8:00	64	8000
4/30/92 8:00	64	8000
4/30/92 8:05	64	8000
4/30/92 8:05	64	8000
4/30/92 16:00	64	8000
4/30/92 16:00	64	8000
5/1/92 8:00	65	8000
5/1/92 8:00	65	8000
5/1/92 8:05	65	8000
5/1/92 8:05	65	8000
5/1/92 15:00	65	8000
5/1/92 15:00	65	8000
5/2/92 8:00	66	8000
5/2/92 8:00	66	8000
5/2/92 8:05	66	8000
5/2/92 8:05	66	8000
5/3/92 8:00	67	8000
5/3/92 8:00	67	8000
5/3/92 8:00	67	8000
5/3/92 8:05	67	8000

DATE DAYS FPM FLOWTEXT.XLS

5/3/92 8:05	67	8000
5/4/92 8:00	68	7900
5/4/92 8:00	68	7900
5/4/92 8:05	68	7900
5/4/92 8:05	68	7900
5/4/92 8:05	68	7900
5/4/92 15:00	68	8000
5/4/92 15:00	68	8000
5/5/92 8:00	69	7900
5/5/92 8:00	69	7900
5/5/92 8:05	69	7900
5/5/92 8:05	69	7900
5/5/92 15:00	69	8000
5/5/92 15:00	69	8000
5/6/92 8:00	70	7900
5/6/92 8:00	70	7900
5/6/92 8:00	70	7900
5/6/92 8:05	70	7900
5/6/92 8:05	70	7900
5/6/92 16:00	70	7900
5/6/92 16:00	70	7900
5/7/92 7:00	71	8000
5/7/92 7:00	71	8000
5/7/92 7:05	71	8000
5/7/92 7:05	71	8000
5/7/92 15:00	71	8000
5/7/92 15:00	71	8000
5/8/92 7:00	72	8000
5/8/92 7:00	72	8000
5/8/92 7:00	72	8000
5/8/92 7:00	72	8000
5/8/92 7:05	72	8000
5/8/92 7:05	72	8000
5/8/92 13:00	72	8000
5/8/92 13:00	72	8000
5/8/92 13:00	72	8000
5/9/92 8:00	73	7900
5/9/92 8:00	73	7900
5/9/92 8:05	73	7900
5/9/92 8:05	73	7900
5/10/92 8:00	74	8000
5/10/92 8:00	74	8000
5/10/92 8:05	74	8000
5/10/92 8:05	74	8000
5/11/92 8:00	75	8000
5/11/92 8:00	75	8000
5/11/92 8:05	75	8000
5/11/92 8:05	75	8000
5/11/92 14:00	75	8000
5/11/92 14:00	75	8000
5/11/92 14:00	75	8000
5/12/92 8:00	76	8000

DATE

DAYS FPM

FLOWEXT.XLS

5/12/92 8:00	76	8000
5/12/92 8:05	76	8000
5/12/92 8:05	76	8000
5/12/92 14:00	76	8000
5/12/92 14:00	76	8000
5/12/92 14:00	76	8000
5/13/92 8:00	77	8000
5/13/92 8:00	77	8000
5/13/92 8:05	77	8000
5/13/92 8:05	77	8000
5/13/92 14:00	77	8000
5/13/92 14:00	77	8000
5/14/92 7:00	78	8000
5/14/92 7:00	78	8000
5/14/92 7:05	78	8000
5/14/92 7:05	78	8000
5/14/92 15:00	78	8000
5/14/92 15:00	78	8000
5/14/92 15:00	78	8000
5/15/92 7:00	79	8000
5/15/92 7:00	79	8000
5/15/92 7:05	79	8000
5/15/92 7:05	79	8000
5/15/92 14:00	79	8000
5/15/92 14:00	79	8000
5/16/92 10:00	80	8000
5/16/92 10:00	80	8000
5/16/92 10:00	80	8000
5/16/92 10:05	80	8000
5/16/92 10:05	80	8000
5/17/92 8:00	81	8000
5/17/92 8:00	81	8000
5/17/92 8:05	81	8000
5/17/92 8:05	81	8000
5/18/92 17:05	82	8000
5/18/92 17:05	82	8000
5/18/92 17:10	82	8000
5/18/92 17:10	82	8000
5/19/92 8:00	83	8000
5/19/92 8:00	83	8000
5/19/92 8:05	83	8000
5/19/92 8:05	83	8000
5/19/92 15:00	83	8000
5/19/92 15:00	83	8000
5/19/92 15:00	83	8000
5/20/92 8:00	84	8000
5/20/92 8:00	84	8000
5/20/92 8:05	84	8000
5/20/92 8:05	84	8000
5/20/92 8:05	84	8000
5/20/92 15:00	84	8000
5/20/92 15:00	84	8000

DATE DAYS FPM FLOWTEXT.XLS

5/21/92 8:00	85	8000
5/21/92 8:00	85	8000
5/21/92 7:55	85	8000
5/21/92 7:55	85	8000
5/21/92 14:30	85	8000
5/21/92 14:30	85	8000
5/21/92 14:30	85	8000
5/22/92 7:05	86	8000
5/22/92 7:05	86	8000
5/22/92 7:00	86	8000
5/22/92 7:00	86	8000
5/22/92 7:00	86	8000
5/22/92 13:05	86	8000
5/22/92 13:05	86	8000
5/22/92 13:05	86	8000
5/23/92 8:00	87	8000
5/23/92 8:00	87	8000
5/23/92 8:05	87	8000
5/23/92 8:05	87	8000
5/24/92 8:00	88	8000
5/24/92 8:00	88	8000
5/24/92 8:05	88	8000
5/24/92 8:05	88	8000
5/25/92 8:00	89	8000
5/25/92 8:00	89	8000
5/25/92 8:00	89	8000
5/25/92 8:05	89	8000
5/25/92 8:05	89	8000
5/25/92 17:00	89	8000
5/25/92 17:00	89	8000
5/26/92 8:00	90	7900
5/26/92 8:00	90	7900
5/26/92 8:05	90	7900
5/26/92 8:05	90	7900
5/26/92 14:00	90	7900
5/26/92 14:00	90	7900
5/26/92 14:00	90	7900
5/27/92 8:00	91	7900
5/27/92 8:00	91	7900
5/27/92 8:05	91	7900
5/27/92 8:05	91	7900
5/27/92 13:00	91	7900
5/27/92 13:00	91	7900
5/28/92 8:00	92	8000
5/28/92 8:00	92	8000
5/28/92 8:05	92	8000
5/28/92 8:05	92	8000
5/28/92 8:05	92	8000
5/28/92 16:00	92	8000
5/28/92 16:00	92	8000
5/28/92 16:00	92	8000
5/29/92 6:05	93	8000

DATE DAYS FPM

FLOWTEXT.XLS

5/29/92 6:05	93	8000
5/29/92 6:10	93	8000
5/29/92 6:10	93	8000
5/29/92 12:00	93	8000
5/29/92 12:00	93	8000
5/29/92 12:00	93	8000
5/30/92 8:00	94	8000
5/30/92 8:00	94	8000
5/30/92 8:05	94	8000
5/30/92 8:05	94	8000
5/31/92 10:00	95	7900
5/31/92 10:00	95	7900
5/31/92 10:05	95	7900
5/31/92 10:05	95	7900
6/1/92 8:00	96	7900
6/1/92 8:00	96	7900
6/1/92 8:05	96	7900
6/1/92 8:05	96	7900
6/1/92 14:00	96	7900
6/1/92 14:00	96	7900
6/2/92 8:00	97	7900
6/2/92 8:00	97	7900
6/2/92 8:05	97	7900
6/2/92 8:05	97	7900
6/2/92 8:05	97	7900
6/2/92 14:00	97	7900
6/2/92 14:00	97	7900
6/2/92 14:00	97	7900
6/3/92 8:00	98	7900
6/3/92 8:00	98	7900
6/3/92 8:05	98	7900
6/3/92 8:05	98	7900
6/3/92 14:00	98	7900
6/3/92 14:00	98	7900
6/4/92 8:00	99	7900
6/4/92 8:00	99	7900
6/4/92 8:05	99	7900
6/4/92 8:05	99	7900
6/4/92 14:00	99	7900
6/4/92 14:00	99	7900
6/4/92 14:00	99	7900
6/5/92 8:00	100	7900
6/5/92 8:00	100	7900
6/5/92 8:05	100	7900
6/5/92 8:05	100	7900
6/6/92 16:00	101	8000
6/6/92 16:00	101	8000
6/6/92 16:00	101	8000
6/6/92 16:05	101	8000
6/6/92 16:05	101	8000
6/7/92 11:00	102	7900
6/7/92 11:00	102	7900

DATE	DAYS	FPM	FLOWTEXT.XLS
6/7/92 11:05	102	7900	
6/7/92 11:05	102	7900	
6/8/92 8:00	103	7900	
6/8/92 8:00	103	7900	
6/8/92 8:05	103	7900	
6/8/92 8:05	103	7900	
6/10/92 8:00	105	8000	
6/10/92 8:00	105	8000	
6/10/92 8:00	105	8000	
6/10/92 8:05	105	8000	
6/10/92 8:05	105	8000	
6/10/92 14:00	105	8000	
6/10/92 14:00	105	8000	
6/11/92 8:00	106	8000	
6/11/92 8:00	106	8000	
6/11/92 8:05	106	8000	
6/11/92 8:05	106	8000	
6/11/92 8:05	106	8000	
6/11/92 14:00	106	8000	
6/11/92 14:00	106	8000	
6/11/92 14:00	106	8000	
6/12/92 8:00	107	7900	
6/12/92 8:00	107	7900	
6/12/92 8:00	107	7900	
6/12/92 8:00	107	7900	
6/12/92 8:00	107	7900	
6/12/92 12:00	107	7900	
6/12/92 12:00	107	7900	
6/13/92 12:00	108	7900	
6/13/92 12:00	108	7900	
6/13/92 12:00	108	7900	
6/13/92 12:00	108	7900	
6/13/92 12:00	108	7900	
6/13/92 12:00	108	7900	
6/14/92 13:00	109	7900	
6/14/92 13:00	109	7900	
6/14/92 13:00	109	7900	
6/14/92 13:00	109	7900	
6/15/92 9:30	110	7900	
6/15/92 9:30	110	7900	
6/15/92 9:35	#VALUE!	7900	
6/15/92 9:35	#VALUE!	7900	
6/15/92 15:00	110	7900	
6/15/92 15:00	110	7900	
6/16/92 8:00	111	7900	
6/16/92 8:00	111	7900	
6/16/92 8:05	111	7900	
6/16/92 8:05	111	7900	
6/16/92 14:00	111	7900	
6/16/92 14:00	111	7900	
6/17/92 8:00	112	7900	
6/17/92 8:00	112	7900	

DATE DAYS FPM

FLOWTEXT.XLS

6/17/92 8:00	112	7900
6/17/92 8:00	112	7900
6/17/92 8:05	112	7900
6/17/92 8:05	112	7900
6/17/92 13:00	112	7900
6/17/92 13:00	112	7900
6/18/92 8:00	113	7900
6/18/92 8:00	113	7900
6/18/92 8:05	113	7900
6/18/92 8:05	113	7900
6/18/92 16:25	113	8000
6/18/92 16:25	113	8000
6/19/92 9:08	114	7900
6/19/92 9:08	114	7900
6/19/92 9:08	114	7900
6/19/92 9:21	114	7900
6/19/92 9:21	114	7900
6/19/92 12:15	114	8000
6/19/92 12:15	114	8000
6/23/92 8:30	118	8000
6/23/92 8:30	118	8000
6/23/92 8:30	118	8000
6/23/92 8:30	118	8000
6/23/92 13:30	118	8000
6/23/92 13:30	118	8000
6/24/92 8:00	119	7900
6/24/92 8:00	119	7900
6/24/92 8:00	119	7900
6/24/92 8:00	119	7900
6/24/92 8:00	119	7900
6/24/92 8:00	119	7900
6/24/92 12:00	119	7900
6/24/92 12:00	119	7900
6/25/92 8:00	120	7900
6/25/92 8:00	120	7900
6/25/92 8:00	120	7900
6/25/92 8:00	120	7900
6/25/92 12:30	120	7900
6/25/92 12:30	120	7900
6/26/92 8:30	121	7900
6/26/92 8:30	121	7900
6/26/92 8:30	121	7900
6/26/92 8:30	121	7900
6/26/92 8:30	121	7900
6/26/92 13:00	121	7900
6/26/92 13:00	121	7900
6/27/92 11:30	122	7900
6/27/92 11:30	122	7900
6/27/92 11:30	122	7900
6/27/92 11:30	122	7900
6/27/92 11:30	122	7900
6/28/92 11:30	123	7900

DATE DAYS FPM FLOWTEXT.XLS

6/28/92 11:30	123	7900
6/28/92 11:30	123	7900
6/28/92 11:30	123	7900
6/28/92 11:30	123	7900
6/29/92 7:30	124	7900
6/29/92 7:30	124	7900
6/29/92 7:35	124	7900
6/29/92 7:35	124	7900
6/29/92 13:00	124	7900
6/29/92 13:00	124	7900
6/30/92 9:00	125	7900
6/30/92 9:00	125	7900
6/30/92 9:05	125	7900
6/30/92 9:05	125	7900
6/30/92 14:00	125	7900
6/30/92 14:00	125	7900
7/1/92 9:30	126	8000
7/1/92 9:30	126	8000
7/1/92 9:30	126	8000
7/1/92 9:35	126	8000
7/1/92 9:35	126	8000
7/1/92 14:00	126	8000
7/1/92 14:00	126	8000
7/1/92 14:00	126	8000
7/2/92 8:00	127	7900
7/2/92 8:00	127	7900
7/2/92 8:05	127	7900
7/2/92 8:05	127	7900
7/2/92 13:30	127	7900
7/2/92 13:30	127	7900
7/3/92 8:00	128	7900
7/3/92 8:00	128	7900
7/3/92 8:00	128	7900
7/3/92 8:05	128	7900
7/3/92 8:05	128	7900
7/3/92 12:00	128	7900
7/3/92 12:00	128	7900
7/3/92 12:00	128	7900
7/4/92 11:00	129	8000
7/4/92 11:00	129	8000
7/4/92 11:05	129	8000
7/4/92 11:05	129	8000
7/5/92 11:00	130	7900
7/5/92 11:00	130	7900
7/5/92 11:05	130	7900
7/5/92 11:05	130	7900
7/6/92 9:00	131	7900
7/6/92 9:00	131	7900
7/6/92 9:05	131	7900
7/6/92 9:05	131	7900
7/6/92 9:05	131	7900
7/6/92 15:00	131	7900

7/6/92 15:00	131	7900
7/6/92 15:00	131	7900
7/7/92 9:30	132	7900
7/7/92 9:30	132	7900
7/7/92 9:35	132	7900
7/7/92 9:35	132	7900
7/7/92 13:30	#VALUE!	8000
7/7/92 13:30	#VALUE!	8000
7/8/92 8:00	133	7900
7/8/92 8:00	133	7900
7/8/92 8:05	133	7900
7/8/92 8:05	133	7900
7/8/92 15:00	133	7900
7/8/92 15:00	133	7900
7/9/92 9:00	134	8000
7/9/92 9:00	134	8000
7/9/92 9:05	134	8000
7/9/92 9:05	134	8000
7/9/92 14:00	134	8000
7/9/92 14:00	134	8000
7/10/92 10:00	135	8000
7/10/92 10:00	135	8000
7/10/92 10:05	135	8000
7/10/92 10:05	135	8000
7/10/92 13:00	135	8000
7/10/92 13:00	135	8000
7/11/92 9:30	136	8000
7/11/92 9:30	136	8000
7/11/92 9:35	136	8000
7/11/92 9:35	136	8000
7/11/92 9:35	136	8000
7/12/92 10:15	137	8000
7/12/92 10:15	137	8000
7/12/92 10:24	137	8000
7/12/92 10:24	137	8000
7/13/92 8:40	138	8000
7/13/92 8:40	138	8000
7/13/92 8:43	138	8000
7/13/92 8:43	138	8000
7/13/92 13:35	138	8000
7/13/92 13:35	138	8000
7/14/92 8:40	139	8000
7/14/92 8:40	139	8000
7/14/92 8:43	139	8000
7/14/92 8:43	139	8000
7/14/92 13:25	139	8000
7/14/92 13:25	139	8000
7/15/92 8:11	140	8000
7/15/92 8:11	140	8000
7/15/92 8:11	140	8000
7/15/92 8:15	140	8000
7/15/92 8:15	140	8000

DATE	DAYS	FPM	FLOWEXT.XLS
------	------	-----	-------------

7/15/92 8:15	140	8000
7/15/92 13:31	140	8000
7/15/92 13:31	140	8000
7/16/92 8:10	141	8000
7/16/92 8:10	141	8000
7/16/92 8:14	141	8000
7/16/92 8:14	141	8000
7/16/92 13:58	141	8000
7/16/92 13:58	141	8000
7/17/92 9:45	142	8000
7/17/92 9:45	142	8000
7/17/92 9:45	142	8000
7/17/92 9:50	142	8000
7/17/92 9:50	142	8000
7/17/92 13:29	142	8000
7/17/92 13:29	142	8000
7/18/92 8:05	143	8000
7/18/92 8:05	143	8000
7/18/92 8:10	143	8000
7/18/92 8:10	143	8000
7/19/91 8:02	-222	7900
7/19/91 8:02	-222	7900
7/19/92 8:10	144	7900
7/19/92 8:10	144	7900
7/20/92 7:45	145	7900
7/20/92 7:45	145	7900
7/20/92 7:51	145	7900
7/20/92 7:51	145	7900
7/20/92 7:51	145	7900
7/20/92 13:00	145	8000
7/20/92 13:00	145	8000
7/21/92 9:10	146	8000
7/21/92 9:10	146	8000
7/21/92 9:15	146	8000
7/21/92 9:15	146	8000
7/21/92 13:30	146	8100
7/21/92 13:30	146	8100
7/21/92 13:30	146	8100
7/22/92 8:39	147	8000
7/22/92 8:39	147	8000
7/22/92 8:44	147	8000
7/22/92 8:44	147	8000
7/22/92 13:35	147	8000
7/22/92 13:35	147	8000
7/23/92 8:02	148	8000
7/23/92 8:02	148	8000
7/23/92 8:07	148	8000
7/23/92 8:07	148	8000
7/23/92 13:30	148	7900
7/23/92 13:30	148	7900
7/24/92 7:50	149	7900
7/24/92 7:50	149	7900

DATE DAYS FPM FLOWTEXT.XLS

7/24/92 7:50	149	7900
7/24/92 7:55	149	7900
7/24/92 7:55	149	7900
7/24/92 13:00	149	8000
7/24/92 13:00	149	8000
7/25/92 8:10	150	7900
7/25/92 8:10	150	7900
7/25/92 8:15	150	7900
7/25/92 8:15	150	7900
7/26/92 9:30	151	7800
7/26/92 9:30	151	7800
7/26/92 9:34	151	7800
7/26/92 9:34	151	7800
7/27/92 8:00	152	7700
7/27/92 8:00	152	7700
7/27/92 8:00	152	7700
7/27/92 8:05	152	7700
7/27/92 8:05	152	7700
7/27/92 13:00	152	7900
7/27/92 13:00	152	7900
7/28/92 10:00	153	7900
7/28/92 10:00	153	7900
7/28/92 10:05	153	7900
7/28/92 10:05	153	7900
7/28/92 12:00	153	7900
7/28/92 12:00	153	7900
7/29/92 9:00	154	7900
7/29/92 9:00	154	7900
7/29/92 9:00	154	7900
7/29/92 9:05	154	7900
7/29/92 9:05	154	7900
7/29/92 13:00	154	7900
7/29/92 13:00	154	7900
7/30/92 7:00	155	7900
7/30/92 7:00	155	7900
7/30/92 7:05	155	7900
7/30/92 7:05	155	7900
7/30/92 7:05	155	7900
7/30/92 12:00	155	7900
7/30/92 12:00	155	7900
7/31/92 9:00	156	7900
7/31/92 9:00	156	7900
7/31/92 9:00	156	7900
7/31/92 9:05	156	7900
7/31/92 9:05	156	7900
7/31/92 12:00	156	7900
7/31/92 12:00	156	7900
8/6/92 8:00	162	8000
8/6/92 8:00	162	8000
8/6/92 8:05	162	8000
8/6/92 8:05	162	8000
8/6/92 12:00	162	8000

DATE DAYS FPM FLOWTEXT.XLS

8/6/92 12:00	162	8000
8/7/92 8:20	163	8000
8/7/92 8:20	163	8000
8/7/92 8:25	163	8000
8/7/92 8:25	163	8000
8/7/92 13:22	163	8000
8/7/92 13:22	163	8000
8/8/92 9:30	164	8000
8/8/92 9:30	164	8000
8/8/92 9:35	164	8000
8/8/92 9:35	164	8000
8/9/92 8:00	165	8000
8/9/92 8:00	165	8000
8/9/92 8:05	165	8000
8/9/92 8:05	165	8000
8/10/92 7:35	166	8000
8/10/92 7:35	166	8000
8/10/92 7:35	166	8000
8/10/92 7:40	166	8000
8/10/92 7:40	166	8000
8/10/92 13:20	166	8000
8/10/92 13:20	166	8000
8/11/92 8:00	167	8000
8/11/92 8:00	167	8000
8/11/92 8:00	167	8000
8/11/92 8:05	167	8000
8/11/92 8:05	167	8000
8/11/92 13:00	167	8000
8/11/92 13:00	167	8000
8/12/92 7:50	168	8000
8/12/92 7:50	168	8000
8/12/92 7:55	168	8000
8/12/92 7:55	168	8000
8/12/92 12:26	168	8000
8/12/92 12:26	168	8000
8/12/92 12:26	168	8000
8/13/92 8:20	169	7900
8/13/92 8:20	169	7900
8/13/92 8:25	169	7900
8/13/92 8:25	169	7900
8/13/92 15:00	169	8000
8/13/92 15:00	169	8000
8/14/92 8:15	170	7700
8/14/92 8:15	170	7700
8/14/92 8:20	170	7700
8/14/92 8:20	170	7700
8/14/92 13:00	170	7900
8/14/92 13:00	170	7900
8/14/92 13:00	170	7900
8/15/92 8:20	171	8000
8/15/92 8:20	171	8000
8/15/92 8:25	171	8000

DATE

DAYS FPM

FLOWEXT.XLS

8/15/92 8:25	171	8000
8/16/92 8:15	172	8000
8/16/92 8:15	172	8000
8/16/92 8:20	172	8000
8/16/92 8:20	172	8000
8/17/92 9:00	173	7900
8/17/92 9:00	173	7900
8/17/92 9:00	173	7900
8/17/92 9:00	173	7900
8/17/92 9:05	173	7900
8/17/92 9:05	173	7900
8/17/92 14:30	173	7900
8/17/92 14:30	173	7900
8/18/92 8:25	174	8000
8/18/92 8:25	174	8000
8/18/92 8:30	174	8000
8/18/92 8:30	174	8000
8/18/92 14:00	174	8000
8/18/92 14:00	174	8000
8/19/92 8:10	175	8000
8/19/92 8:10	175	8000
8/20/92 17:00	176	8000
8/20/92 17:00	176	8000
8/20/92 17:05	176	8000
8/20/92 17:05	176	8000
8/20/92 17:05	176	8000
8/20/92 17:05	176	8000
8/21/92 8:00	177	8000
8/21/92 8:00	177	8000
8/21/92 8:05	177	8000
8/21/92 8:05	177	8000
8/21/92 13:30	177	8000
8/21/92 13:30	177	8000
8/22/92 9:30	178	7900
8/22/92 9:30	178	7900
8/22/92 9:35	178	7900
8/22/92 9:35	178	7900
8/22/92 9:35	178	7900
8/23/92 10:00	179	8000
8/23/92 10:00	179	8000
8/23/92 10:05	179	8000
8/23/92 10:05	179	8000
8/24/92 8:16	180	8000
8/24/92 8:16	180	8000
8/24/92 8:21	180	8000
8/24/92 8:21	180	8000
8/24/92 8:21	180	8000
8/24/92 13:30	180	8000
8/24/92 13:30	180	8000
8/25/92 8:50	181	8000
8/25/92 8:50	181	8000
8/25/92 9:00	181	8000

DATE DAYS FPM

FLOWTEXT.XLS

8/25/92 9:00	181	8000
8/25/92 14:00	181	8000
8/25/92 14:00	181	8000
8/26/92 8:30	182	8000
8/26/92 8:30	182	8000
8/26/92 8:35	182	8000
8/26/92 8:35	182	8000
8/26/92 8:35	182	8000
8/26/92 13:30	182	8000
8/26/92 13:30	182	8000
8/27/92 8:00	183	8000
8/27/92 8:00	183	8000
8/27/92 8:05	183	8000
8/27/92 8:05	183	8000
8/27/92 13:30	183	8000
8/27/92 13:30	183	8000
8/27/92 13:30	183	8000
8/28/92 8:30	184	8000
8/28/92 8:30	184	8000
8/28/92 8:35	184	8000
8/28/92 8:35	184	8000
8/28/92 13:00	184	8000
8/28/92 13:00	184	8000
8/28/92 13:00	184	8000
8/29/92 9:00	185	7900
8/29/92 9:00	185	7900
8/29/92 9:05	185	7900
8/29/92 9:05	185	7900
8/30/92 9:00	186	8000
8/30/92 9:00	186	8000
8/30/92 9:05	186	8000
8/30/92 9:05	186	8000
8/31/92 8:30	187	7900
8/31/92 8:30	187	7900
8/31/92 8:35	187	7900
8/31/92 8:35	187	7900
8/31/92 13:00	187	7900
8/31/92 13:00	187	7900
9/1/92 21:25	188	8000
9/1/92 21:25	188	8000
9/1/92 21:30	188	8000
9/1/92 21:30	188	8000
9/2/92 9:31	189	8000
9/2/92 9:31	189	8000
9/2/92 9:31	189	8000
9/2/92 9:31	189	8000
9/2/91 9:36	-177	8000
9/2/91 9:36	-177	8000
9/2/91 13:30	-177	8000
9/2/91 13:30	-177	8000
9/3/92 8:00	190	8000
9/3/92 8:00	190	8000

9/3/92 8:05	190	8000
9/3/92 8:05	190	8000
9/3/92 13:40	190	8000
9/3/92 13:40	190	8000
9/4/92 8:30	191	8000
9/4/92 8:30	191	8000
9/4/92 8:35	191	8000
9/4/92 8:35	191	8000
9/4/92 12:00	191	8000
9/4/92 12:00	191	8000
9/5/92 13:00	192	7900
9/5/92 13:00	192	7900
9/5/92 13:00	192	7900
9/5/92 13:05	192	7900
9/5/92 13:05	192	7900
9/6/92 9:55	193	8000
9/6/92 9:55	193	8000
9/6/92 9:55	193	8000
9/6/92 10:00	193	8000
9/6/92 10:00	193	8000
9/7/92 10:00	194	8000
9/7/92 10:00	194	8000
9/7/92 10:05	194	8000
9/7/92 10:05	194	8000
9/7/92 12:30	194	8000
9/7/92 12:30	194	8000
9/8/92 8:55	195	7900
9/8/92 8:55	195	7900
9/8/92 8:55	195	7900
9/8/92 9:00	195	7900
9/8/92 9:00	195	7900
9/8/92 12:55	195	8000
9/8/92 12:55	195	8000
9/9/92 8:55	196	7900
9/9/92 8:55	196	7900
9/9/92 9:00	196	7900
9/9/92 9:00	196	7900
9/9/92 12:00	196	7900
9/9/92 12:00	196	7900
9/9/92 12:00	196	7900
9/10/92 8:00	197	7900
9/10/92 8:00	197	7900
9/10/92 8:05	197	7900
9/10/92 8:05	197	7900
9/10/92 12:00	197	7900
9/10/92 12:00	197	7900
9/10/92 12:00	197	7900
9/11/92 8:00	198	7900
9/11/92 8:00	198	7900
9/11/92 8:05	198	7900
9/11/92 8:05	198	7900
9/11/92 12:00	198	7900

DATE DAYS FPM

FLOWTEXT.XLS

9/11/92 12:00	198	7900
9/11/92 12:00	198	7900
9/12/92 9:00	199	7900
9/12/92 9:00	199	7900
9/12/92 9:05	199	7900
9/12/92 9:05	199	7900
9/13/92 9:00	200	7900
9/13/92 9:00	200	7900
9/13/92 9:05	200	7900
9/13/92 9:05	200	7900
9/14/92 9:00	201	7900
9/14/92 9:00	201	7900
9/14/92 9:00	201	7900
9/14/92 9:05	201	7900
9/14/92 9:05	201	7900
9/14/92 9:05	201	7900
9/14/92 16:05	201	7900
9/14/92 16:05	201	7900
9/15/92 9:00	202	7900
9/15/92 9:00	202	7900
9/15/92 9:05	202	7900
9/15/92 9:05	202	7900
9/15/92 13:00	202	7900
9/15/92 13:00	202	7900
9/16/92 9:40	203	7900
9/16/92 9:40	203	7900
9/16/92 9:45	203	7900
9/16/92 9:45	203	7900
9/16/92 13:45	203	8000
9/16/92 13:45	203	8000
9/16/92 13:45	203	8000
9/17/92 8:30	204	7900
9/17/92 8:30	204	7900
9/17/92 8:30	204	7900
9/17/92 8:35	204	7900
9/17/92 8:35	204	7900
9/17/92 14:00	204	8000
9/17/92 14:00	204	8000
9/18/92 9:00	205	7900
9/18/92 9:00	205	7900
9/18/92 9:05	205	7900
9/18/92 9:05	205	7900
9/18/92 9:05	205	7900
9/18/92 13:30	205	8000
9/18/92 13:30	205	8000
9/19/92 9:00	206	7900
9/19/92 9:00	206	7900
9/19/92 9:05	206	7900
9/19/92 9:05	206	7900
9/19/92 9:05	206	7900
9/20/92 10:30	207	7900
9/20/92 10:30	207	7900

DATE DAYS FPM

FLOWEXT.XLS

9/20/90 10:35	-524	7900
9/20/90 10:35	-524	7900
9/21/92 10:00	208	7900
9/21/92 10:00	208	7900
9/21/92 10:05	208	7900
9/21/92 10:05	208	7900
9/21/92 14:00	208	7900
9/21/92 14:00	208	7900
9/22/92 8:30	209	7900
9/22/92 8:30	209	7900
9/22/92 8:30	209	7900
9/22/92 8:35	209	7900
9/22/92 8:35	209	7900
9/22/92 8:35	209	7900
9/22/92 13:00	209	7900
9/22/92 13:00	209	7900
9/23/92 8:30	210	7900
9/23/92 8:30	210	7900
9/23/92 8:35	210	7900
9/23/92 8:35	210	7900
9/23/92 13:00	210	8000
9/23/92 13:00	210	8000
9/24/92 8:15	211	7700
9/24/92 8:15	211	7700
9/24/92 8:20	211	7700
9/24/92 8:20	211	7700
9/24/92 13:00	211	7600
9/24/92 13:00	211	7600
9/24/92 13:00	211	7600
9/27/92 8:30	214	8000
9/27/92 8:30	214	8000
9/27/92 8:35	214	8000
9/27/92 8:35	214	8000
9/28/92 8:00	215	7600
9/28/92 8:00	215	7600
9/28/92 8:05	215	7600
9/28/92 8:05	215	7600
9/28/92 13:00	215	7900
9/28/92 13:00	215	7900
9/29/92 8:30	216	7600
9/29/92 8:30	216	7600
9/29/92 8:30	216	7600
9/29/92 8:35	216	7600
9/29/92 8:35	216	7600
9/29/92 14:30	216	7800
9/29/92 14:30	216	7800
10/1/92 9:30	218	7900
10/1/92 9:30	218	7900
10/1/92 9:35	218	7900
10/1/92 9:35	218	7900
10/1/92 14:00	218	8000
10/1/92 14:00	218	8000

DATE DAYS FPM

FLOWTEXT.XLS

10/2/92 8:30	219	7900
10/2/92 8:30	219	7900
10/2/92 8:35	219	7900
10/2/92 8:35	219	7900
10/2/92 13:00	219	8000
10/2/92 13:00	219	8000
10/2/92 13:00	219	8000
10/3/92 9:30	220	7900
10/3/92 9:30	220	7900
10/3/92 9:35	220	7900
10/3/92 9:35	220	7900
10/4/92 8:28	221	7900
10/4/92 8:28	221	7900
10/4/92 8:28	221	7900
10/4/92 8:30	221	7900
10/4/92 8:30	221	7900
10/5/92 8:30	222	7700
10/5/92 8:30	222	7700
10/5/92 8:35	222	7700
10/5/92 8:35	222	7700
10/5/92 13:30	222	7600
10/5/92 13:30	222	7600
10/6/92 9:00	223	7700
10/6/92 9:00	223	7700
10/6/92 9:00	223	7700
10/6/92 9:05	223	7700
10/6/92 9:05	223	7700
10/6/92 13:30	223	7900
10/6/92 13:30	223	7900
10/7/92 9:00	224	7800
10/7/92 9:00	224	7800
10/7/92 9:05	224	7800
10/7/92 9:05	224	7800
10/7/92 13:30	224	7900
10/7/92 13:30	224	7900
10/7/92 13:30	224	7900
10/8/92 9:30	225	7700
10/8/92 9:30	225	7700
10/8/92 9:35	225	7700
10/8/92 9:35	225	7700
10/8/92 14:00	225	7900
10/8/92 14:00	225	7900
10/9/92 9:00	226	7600
10/9/92 9:00	226	7600
10/9/92 9:05	226	7600
10/9/92 9:05	226	7600
10/9/92 13:30	226	7900
10/9/92 13:30	226	7900
10/10/92 10:30	227	7900
10/10/92 10:30	227	7900
10/10/92 10:35	227	7900
10/10/92 10:35	227	7900

DATE

DAYS FPM

FLOWEXT.XLS

10/11/92 9:30	228	7800
10/11/92 9:30	228	7800
10/11/92 9:35	228	7800
10/11/92 9:35	228	7800
10/15/92 10:00	232	8000
10/15/92 10:00	232	8000
10/15/92 10:05	232	8000
10/15/92 10:05	232	8000
10/15/92 13:00	232	8000
10/15/92 13:00	232	8000
10/15/92 13:00	232	8000
10/15/92 13:00	232	8000
10/16/92 9:00	233	7900
10/16/92 9:00	233	7900
10/16/92 9:05	233	7900
10/16/92 9:05	233	7900
10/16/92 13:00	233	7900
10/16/92 13:00	233	7900
10/17/92 9:23	234	8000
10/17/92 9:23	234	8000
10/17/92 9:27	234	8000
10/17/92 9:27	234	8000
10/18/92 9:30	235	7700
10/18/92 9:30	235	7700
10/18/92 9:35	235	7700
10/18/92 9:35	235	7700
10/19/92 9:30	236	7800
10/19/92 9:30	236	7800
10/19/92 9:30	236	7800
10/19/92 9:35	236	7800
10/19/92 9:35	236	7800
10/19/92 13:30	236	8000
10/19/92 13:30	236	8000
10/19/92 13:30	236	8000
10/20/92 9:30	237	7900
10/20/92 9:30	237	7900
10/20/92 9:35	237	7900
10/20/92 9:35	237	7900
10/20/92 13:30	237	7900
10/20/92 13:30	237	7900
10/21/92 9:30	238	7900
10/21/92 9:30	238	7900
10/21/92 9:35	238	7900
10/21/92 9:35	238	7900
10/21/92 13:00	238	7900
10/21/92 13:00	238	7900
10/22/92 9:00	239	7700
10/22/92 9:00	239	7700
10/22/92 9:05	239	7700
10/22/92 9:05	239	7700
10/22/92 9:05	239	7700
10/22/92 12:00	239	7900

DATE DAYS FPM FLOWTEXT.XLS

10/22/92 12:00	239	7900
10/22/92 12:00	239	7900
10/23/92 9:30	240	7600
10/23/92 9:30	240	7600
10/23/92 9:35	240	7600
10/23/92 9:35	240	7600
10/23/92 14:00	240	7900
10/23/92 14:00	240	7900
10/24/92 10:30	241	7800
10/24/92 10:30	241	7800
10/24/92 10:35	241	7800
10/24/92 10:35	241	7800
10/24/92 17:00	241	7800
10/25/92 9:07	242	7600
10/25/92 9:07	242	7600
10/25/92 9:07	242	7600
10/25/92 9:09	242	7600
10/25/92 9:09	242	7600
10/25/92 15:00	242	7600
10/26/92 9:00	243	7800
10/26/92 9:00	243	7800
10/26/92 9:05	243	7800
10/26/92 9:05	243	7800
10/26/92 15:00	243	7900
10/26/92 15:00	243	7900
10/27/92 9:00	244	7800
10/27/92 9:00	244	7800
10/27/92 9:05	244	7800
10/27/92 9:05	244	7800
10/27/92 9:05	244	7800
10/27/92 14:30	244	7900
10/27/92 14:30	244	7900
10/28/92 9:07	245	7800
10/28/92 9:07	245	7800
10/28/92 9:09	245	7800
10/28/92 9:09	245	7800
10/28/92 13:30	245	7800
10/28/92 13:30	245	7800
10/28/92 13:30	245	7800
10/29/92 9:00	246	7800
10/29/92 9:00	246	7800
10/29/92 9:00	246	7800
10/29/92 9:05	246	7800
10/29/92 9:05	246	7800
10/29/92 13:00	246	7800
10/29/92 13:00	246	7800
10/30/92 10:25	247	7900
10/30/92 10:25	247	7900
10/30/92 10:32	247	7900
10/30/92 10:32	247	7900
10/30/92 18:00	247	7800
10/30/92 18:00	247	7800

DATE

DAYS FPM

FLOWEXT.XLS

10/31/92 11:00	248	7800
10/31/92 11:00	248	7800
10/31/92 11:00	248	7800
10/31/92 11:05	248	7800
10/31/92 11:05	248	7800
11/1/92 14:00	249	7900
11/1/92 14:00	249	7900
11/1/92 14:05	249	7900
11/1/92 14:05	249	7900
11/1/92 14:05	249	7900
11/2/92 10:00	250	7800
11/2/92 10:00	250	7800
11/2/92 10:05	250	7800
11/2/92 10:05	250	7800
11/2/92 15:00	250	7800
11/2/92 15:00	250	7800
11/3/92 9:30	251	7800
11/3/92 9:30	251	7800
11/3/92 9:35	251	7800
11/3/92 9:35	251	7800
11/3/92 17:30	251	7800
11/3/92 17:30	251	7800
11/4/92 9:33	252	7800
11/4/92 9:33	252	7800
11/4/92 9:33	252	7800
11/4/92 9:36	252	7800
11/4/92 9:36	252	7800
11/4/92 14:00	252	7800
11/4/92 14:00	252	7800
11/5/92 9:30	253	7800
11/5/92 9:30	253	7800
11/5/92 9:30	253	7800
11/5/92 9:35	253	7800
11/5/92 9:35	253	7800
11/5/92 13:00	253	7600
11/5/92 13:00	253	7600
11/6/92 9:30	254	7600
11/6/92 9:30	254	7600
11/6/92 9:30	254	7600
11/6/92 9:35	254	7600
11/6/92 9:35	254	7600
11/6/92 14:00	254	7600
11/6/92 14:00	254	7600
11/7/92 9:30	255	7700
11/7/92 9:30	255	7700
11/7/92 9:35	255	7700
11/7/92 9:35	255	7700
11/8/92 10:30	256	7800
11/8/92 10:30	256	7800
11/8/92 10:30	256	7800
11/8/92 10:30	256	7800
11/8/92 10:33	256	7800

DATE DAYS FPM FLOWTEXT.XLS

11/9/92 9:30	257	7800
11/9/92 9:30	257	7800
11/9/92 9:35	257	7800
11/9/92 9:35	257	7800
11/9/92 13:30	257	7800
11/9/92 13:30	257	7800
11/10/92 10:00	258	7800
11/10/92 10:00	258	7800
11/10/92 10:05	258	7800
11/10/92 10:05	258	7800
11/10/92 14:00	258	7900
11/10/92 14:00	258	7900
11/11/92 19:32	259	8100
11/11/92 19:32	259	8100
11/11/92 19:34	259	8100
11/11/92 19:34	259	8100
11/12/92 9:30	260	8000
11/12/92 9:30	260	8000
11/12/92 9:30	260	8000
11/12/92 9:30	260	8000
11/12/92 9:35	260	8000
11/12/92 9:35	260	8000
11/12/92 13:00	260	7700
11/12/92 13:00	260	7700
11/13/92 9:30	261	7700
11/13/92 9:30	261	7700
11/13/92 9:35	261	7700
11/13/92 9:35	261	7700
11/13/92 13:00	261	7700
11/13/92 13:00	261	7700
11/14/92 15:00	262	7800
11/14/92 15:00	262	7800
11/14/92 15:05	262	7800
11/14/92 15:05	262	7800
11/15/92 13:00	263	7800
11/15/92 13:00	263	7800
11/15/92 13:05	263	7800
11/15/92 13:05	263	7800
11/16/92 9:30	264	7800
11/16/92 9:30	264	7800
11/16/92 9:35	264	7800
11/16/92 9:35	264	7800
11/16/92 13:00	264	7800
11/16/92 13:00	264	7800
11/17/92 10:00	265	7800
11/17/92 10:00	265	7800
11/17/92 10:00	265	7800
11/17/92 10:00	265	7800
11/17/92 10:05	265	7800
11/17/92 10:05	265	7800
11/17/92 14:30	265	7900
11/17/92 14:30	265	7900

DATE

DAYS FPM

FLOWEXT.XLS

11/18/92 9:00	266	7800
11/18/92 9:00	266	7800
11/18/92 9:05	266	7800
11/18/92 9:05	266	7800
11/18/92 13:00	266	7800
11/18/92 13:00	266	7800
11/19/92 9:00	267	7800
11/19/92 9:00	267	7800
11/19/92 9:05	267	7800
11/19/92 9:05	267	7800
11/19/92 13:00	267	7900
11/19/92 13:00	267	7900
11/20/92 10:00	268	7800
11/20/92 10:00	268	7800
11/20/92 10:05	268	7800
11/20/92 10:05	268	7800
11/20/92 14:00	268	7800
11/20/92 14:00	268	7800
11/21/92 12:00	269	7800
11/21/92 12:00	269	7800
11/21/92 12:00	269	7800
11/21/92 12:00	269	7800
11/21/92 12:05	269	7800
11/21/92 12:05	269	7800
11/22/92 12:00	270	7700
11/22/92 12:00	270	7700
11/22/92 12:05	270	7700
11/22/92 12:05	270	7700
11/23/92 9:30	271	7300
11/23/92 9:30	271	7300
11/23/92 9:35	271	7300
11/23/92 9:35	271	7300
11/23/92 13:00	271	7300
11/23/92 13:00	271	7300
11/24/92 9:30	272	7200
11/24/92 9:30	272	7200
11/24/92 9:35	272	7200
11/24/92 9:35	272	7200
11/24/92 13:00	272	7200
11/24/92 13:00	272	7200
11/25/92 9:30	273	7200
11/25/92 9:30	273	7200
11/25/92 9:30	273	7200
11/25/92 9:30	273	7200
11/25/92 9:33	273	7200
11/25/92 9:33	273	7200
11/25/92 12:30	273	7200
11/25/92 12:30	273	7200
11/27/92 9:00	275	7200
11/27/92 9:00	275	7200
11/27/92 9:03	275	7200
11/27/92 9:03	275	7200

AIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIM STANDARDS
BY APPLIED IMAGE, INC.

4 of 7

DATE

DAYS FPM

FLOWTEXT.XLS

11/27/92 13:00	275	7200
11/27/92 13:00	275	7200
11/28/92 16:00	276	7200
11/28/92 16:00	276	7200
11/28/92 16:00	276	7200
11/28/92 16:03	276	7200
11/28/92 16:03	276	7200
11/28/92 16:03	276	7200
11/29/92 12:00	277	7200
11/29/92 12:00	277	7200
11/29/92 12:03	277	7200
11/29/92 12:03	277	7200
11/30/92 9:30	278	7200
11/30/92 9:30	278	7200
11/30/92 9:35	278	7200
11/30/92 9:35	278	7200
11/30/92 14:00	278	7200
11/30/92 14:00	278	7200
11/30/92 14:00	278	7200
12/1/92 9:30	279	7200
12/1/92 9:30	279	7200
12/1/92 9:30	279	7200
12/1/92 9:35	279	7200
12/1/92 9:35	279	7200
12/1/92 14:00	279	7200
12/1/92 14:00	279	7200
12/4/92 10:30	282	7900
12/4/92 10:30	282	7900
12/4/92 10:33	282	7900
12/4/92 10:33	282	7900
12/4/92 15:30	282	7900
12/4/92 15:30	282	7900
12/5/92 11:03	283	7800
12/5/92 11:03	283	7800
12/5/92 11:03	283	7800
12/5/92 11:05	283	7800
12/5/92 11:05	283	7800
12/6/92 18:00	284	7200
12/6/92 18:00	284	7200
12/6/92 18:03	284	7200
12/6/92 18:03	284	7200
12/7/92 10:30	285	7600
12/7/92 10:30	285	7600
12/7/92 10:33	285	7600
12/7/92 10:33	285	7600
12/7/92 10:33	285	7600
12/7/92 15:00	285	7600
12/7/92 15:00	285	7600
12/7/92 15:00	285	7600
12/8/92 10:00	286	7500
12/8/92 10:00	286	7500
12/8/92 10:03	286	7500

DATE

DAYS FPM

FLOWTEXT.XLS

12/8/92 10:03	286	7500
12/8/92 14:00	286	7600
12/8/92 1400	#VALUE!	7600
12/9/92 9:30	287	7900
12/9/92 9:30	287	7900
12/9/92 9:33	287	7900
12/9/92 9:33	287	7900
12/9/92 13:30	287	7800
12/9/92 13:30	287	7800
12/9/92 13:30	287	7800
12/10/92 8:30	288	7700
12/10/92 8:30	288	7700
12/10/92 8:30	288	7700
12/10/92 8:33	288	7700
12/10/92 8:33	288	7700
12/10/92 14:00	288	7700
12/10/92 14:00	288	7700
12/11/92 9:00	289	7700
12/11/92 9:00	289	7700
12/11/92 9:03	289	7700
12/11/92 9:03	289	7700
12/11/92 13:30	289	7700
12/11/92 13:30	289	7700
12/12/92 12:00	290	7800
12/12/92 12:00	290	7800
12/12/92 12:00	290	7800
12/12/92 12:03	290	7800
12/12/92 12:03	290	7800
12/14/92 10:00	292	8000
12/14/92 10:00	292	8000
12/14/92 10:03	292	8000
12/14/92 10:03	292	8000
12/14/92 15:00	292	8000
12/14/92 15:00	292	8000
12/15/92 9:30	293	7900
12/15/92 9:30	293	7900
12/15/92 9:33	293	7900
12/15/92 9:33	293	7900
12/15/92 9:33	293	7900
12/15/92 13:30	293	7900
12/15/92 13:30	293	7900
12/16/92 9:00	294	8000
12/16/92 9:00	294	8000
12/16/92 9:05	294	8000
12/16/92 9:05	294	8000
12/16/92 14:00	294	8000
12/16/92 14:00	294	8000
12/16/92 14:00	294	8000
12/17/92 9:00	295	7800
12/17/92 9:00	295	7800
12/17/92 9:03	295	7800
12/17/92 9:03	295	7800

DATE DAYS FPM FLOWTEXT.XLS

12/17/92 13:00	295	7800
12/17/92 13:00	295	7800
12/18/92 9:30	296	7700
12/18/92 9:30	296	7700
12/18/92 9:33	296	7700
12/18/92 9:33	296	7700
12/18/92 13:00	296	7800
12/18/92 13:00	296	7800
12/19/92 17:30	297	7800
12/19/92 17:30	297	7800
12/19/92 17:30	297	7800
12/19/92 17:33	297	7800
12/19/92 17:33	297	7800
12/20/92 10:30	298	7600
12/20/92 10:30	298	7600
12/20/92 10:35	298	7600
12/20/92 10:35	298	7600
12/21/92 10:00	299	7600
12/21/92 10:00	299	7600
12/21/92 10:05	299	7600
12/21/92 10:05	299	7600
12/21/92 14:30	299	7900
12/21/92 14:30	299	7900
12/22/92 10:00	300	7700
12/22/92 10:00	300	7700
12/22/92 10:05	300	7700
12/22/92 10:05	300	7700
12/22/92 13:30	300	7700
12/22/92 13:30	300	7700
12/22/92 13:30	300	7700
12/23/92 9:00	301	7700
12/23/92 9:00	301	7700
12/23/92 9:00	301	7700
12/23/92 9:05	301	7700
12/23/92 9:05	301	7700
12/23/92 9:05	301	7700
12/23/92 14:00	301	7900
12/23/92 14:00	301	7900
12/24/92 10:30	302	7800
12/24/92 10:30	302	7800
12/24/92 10:35	302	7800
12/24/92 10:35	302	7800
12/24/92 12:30	302	7800
12/24/92 12:30	302	7800
12/26/92 13:00	304	7700
12/26/92 13:00	304	7700
12/26/92 13:00	304	7700
12/26/92 13:00	304	7700
12/27/92 12:30	305	7500
12/27/92 12:30	305	7500
12/28/92 16:30	306	8000
12/28/92 16:30	306	8000

DATE DAYS FPM

FLOWTEXT.XLS

12/28/92 16:35	306	8000
12/28/92 16:35	306	8000
12/29/92 11:00	307	7900
12/29/92 11:00	307	7900
12/29/92 11:03	307	7900
12/29/92 11:03	307	7900
12/29/92 14:00	307	7900
12/29/92 14:00	307	7900
12/30/92 10:00	308	7900
12/30/92 10:00	308	7900
12/30/92 10:00	308	7900
12/30/92 10:05	308	7900
12/30/92 10:05	308	7900
12/30/92 14:30	308	7800
12/30/92 14:30	308	7800
12/31/92 11:00	309	7800
12/31/92 11:00	309	7800
12/31/92 11:00	309	7800
12/31/92 11:05	309	7800
12/31/92 11:05	309	7800
12/31/92 12:00	309	7900
12/31/92 12:00	309	7900
1/2/93 12:00	311	7800
1/2/93 12:00	311	7800
1/2/93 12:00	311	7800
1/2/93 12:03	311	7800
1/2/93 12:03	311	7800
1/3/93 15:00	312	7700
1/3/93 15:00	312	7700
1/3/93 15:03	312	7700
1/3/93 15:03	312	7700
1/4/93 10:30	313	7700
1/4/93 10:30	313	7700
1/4/93 10:33	313	7700
1/4/93 10:33	313	7700
1/4/93 14:30	313	7800
1/4/93 14:30	313	7800
1/5/93 9:30	314	7800
1/5/93 9:30	314	7800
1/5/93 9:35	314	7800
1/5/93 9:35	314	7800
1/5/93 9:35	314	7800
1/5/93 14:00	314	7700
1/5/93 14:00	314	7700
1/6/93 9:30	315	7600
1/6/93 9:30	315	7600
1/6/93 9:30	315	7600
1/6/93 9:35	315	7600
1/6/93 9:35	315	7600
1/6/93 14:30	315	7500
1/6/93 14:30	315	7500
1/7/93 10:00	316	7600

DATE DAYS FPM FLOWTEXT.XLS

1/7/93 10:00	316	7600
1/7/93 10:03	316	7600
1/7/93 10:03	316	7600
1/7/93 13:30	316	7600
1/7/93 13:30	316	7600
1/8/93 9:30	317	6700
1/8/93 9:30	317	6700
1/8/93 9:35	317	6700
1/8/93 9:35	317	6700
1/8/93 9:35	317	6700
1/8/93 13:30	317	7700
1/8/93 13:30	317	7700
1/9/93 12:00	318	7700
1/9/93 12:00	318	7700
1/9/93 12:03	318	7700
1/9/93 12:03	318	7700
1/10/93 14:30	319	7600
1/10/93 14:30	319	7600
1/10/93 14:30	319	7600
1/10/93 14:35	319	7600
1/10/93 14:35	319	7600
1/11/93 11:00	320	7600
1/11/93 11:00	320	7600
1/11/93 11:05	320	7600
1/11/93 11:05	320	7600
1/11/93 14:30	320	7600
1/11/93 14:30	320	7600
1/12/93 11:30	321	7600
1/12/93 11:30	321	7600
1/12/93 11:30	321	7600
1/12/93 11:35	321	7600
1/12/93 11:35	321	7600
1/12/93 14:30	321	7600
1/12/93 14:30	321	7600
1/13/93 8:30	322	7600
1/13/93 8:30	322	7600
1/13/93 8:33	322	7600
1/13/93 8:33	322	7600
1/14/93 10:30	323	7600
1/14/93 10:30	323	7600
1/14/93 10:30	323	7600
1/14/93 10:35	323	7600
1/14/93 10:35	323	7600
1/15/93 10:30	324	7600
1/15/93 10:30	324	7600
1/15/93 10:35	324	7600
1/15/93 10:35	324	7600
1/26/93 16:00	335	8000
1/26/93 16:00	335	8000
1/26/93 16:00	335	8000
1/26/93 16:03	335	8000
1/26/93 16:03	335	8000

DATE DAYS FPM

FLOWEXT.XLS

1/27/93 10:30	336	7900
1/27/93 10:30	336	7900
1/27/93 10:33	336	7900
1/27/93 10:33	336	7900
1/28/93 9:30	337	7900
1/28/93 9:30	337	7900
1/28/93 9:30	337	7900
1/28/93 9:33	337	7900
1/28/93 9:33	337	7900
1/29/93 8:30	338	7900
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1/29/93 8:35	338	7900
1/29/93 8:35	338	7900
1/31/93 11:00	340	7900
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1/31/93 11:03	340	7900
1/31/93 11:03	340	7900
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2/4/93 10:00	344	7900
2/4/93 10:03	344	7900
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2/5/93 10:00	345	7900
2/5/93 10:00	345	7900
2/5/93 10:03	345	7900
2/5/93 10:03	345	7900
2/5/93 15:30	345	7900
2/5/93 15:30	345	7900
2/5/93 15:30	345	7900

2/7/93 15:00	347	7800
2/7/93 15:00	347	7800
2/7/93 15:03	347	7800
2/7/93 15:03	347	7800
2/8/93 10:30	348	7800
2/8/93 10:30	348	7800
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2/15/93 9:03	355	7700
2/15/93 9:03	355	7700
2/15/93 14:30	355	7700
2/15/93 14:30	355	7700
2/16/93 9:00	356	7700
2/16/93 9:00	356	7700
2/16/93 9:05	356	7700
2/16/93 9:05	356	7700

DATE

DAYS FPM

FLOWEXT.XLS

2/16/93 14:30	358	7700
2/16/93 14:30	358	7700
2/17/93 9:00	357	7600
2/17/93 9:00	357	7600
2/17/93 9:05	357	7600
2/17/93 9:05	357	7600
2/17/93 15:00	357	7700
2/17/93 15:00	357	7700
2/18/93 10:00	358	7600
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2/19/93 9:30	359	7600
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2/24/93 15:50	364	7600
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2/26/93 13:30	366	7600
2/27/93 13:00	367	7600
2/27/93 13:00	367	7600
2/27/93 13:03	367	7600
2/27/93 13:03	367	7600
2/27/93 13:03	367	7600
2/28/93 10:00	368	7600
2/28/93 10:00	368	7600
2/28/93 10:00	368	7600
2/28/93 10:05	368	7600

DATE DAYS FPM FLOWTEXT.XLS

2/28/93 10:05	368	7600
2/28/93 15:45	368	7600
2/28/93 15:45	368	7600
3/1/93 10:00	369	7600
3/1/93 10:00	369	7600
3/1/93 10:05	369	7600
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3/3/93 10:00	371	7600
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3/3/93 10:05	371	7600
3/3/93 10:05	371	7600
3/3/93 14:00	371	7600
3/3/93 14:00	371	7600
3/3/93 14:00	371	7600
3/4/93 10:00	372	7600
3/4/93 10:00	372	7600
3/4/93 10:05	372	7600
3/4/93 10:05	372	7600
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3/4/93 13:30	372	7600
3/4/93 17:00	372	7600
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3/5/93 9:35	373	7500
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3/6/93 10:03	374	7600
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3/6/93 16:30	374	7600
3/6/93 16:30	374	7600
3/7/93 13:00	375	7600
3/7/93 13:00	375	7600
3/7/93 13:03	375	7600
3/7/93 13:03	375	7600
3/8/93 10:30	376	7600
3/8/93 10:30	376	7600
3/8/93 10:35	376	7600

DATE	DAYS	FPM	FLOWTEXT.XLS
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3/8/93 10:35	376	7600
3/8/93 16:00	376	7600
3/8/93 16:00	376	7600
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3/9/93 10:05	377	7600
3/9/93 10:05	377	7600
3/9/93 10:05	377	7600
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3/11/93 8:03	379	7600
3/11/93 8:03	379	7600
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3/16/93 9:33	384	7600
3/16/93 9:33	384	7600
3/16/93 15:30	384	7600
3/16/93 15:30	384	7600
3/17/93 9:00	385	7600

DATE DAYS FPM FLOWTEXT.XLS

3/17/93 9:00	385	7600
3/17/93 9:03	385	7600
3/17/93 9:03	385	7600
3/17/93 13:00	385	7600
3/17/93 13:00	385	7600
3/17/93 13:00	385	7600
3/18/93 9:00	386	7600
3/18/93 9:00	386	7600
3/18/93 9:03	386	7600
3/18/93 9:03	386	7600
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3/23/93 11:00	391	7600
3/23/93 11:03	391	7600
3/23/93 11:03	391	7600
3/23/93 15:00	391	7600
3/23/93 15:00	391	7600
3/24/93 7:00	392	7600
3/24/93 7:00	392	7600
3/24/93 7:05	392	7600
3/24/93 7:05	392	7600
3/24/93 16:00	392	7600
3/24/93 16:00	392	7600
3/24/93 16:00	392	7600

DATE DAYS FPM FLOWTEXT.XLS

3/25/93 9:30	393	7600
3/25/93 9:30	393	7600
3/25/93 9:30	393	7600
3/25/93 9:33	393	7600
3/25/93 9:33	393	7600
3/25/93 13:30	393	7600
3/25/93 13:30	393	7600
3/26/93 9:00	394	7700
3/26/93 9:00	394	7700
3/26/93 9:03	394	7700
3/26/93 9:03	394	7700
3/26/93 13:00	394	7700
3/26/93 13:00	394	7700
3/27/93 11:00	395	7600
3/27/93 11:00	395	7600
3/27/93 11:03	395	7600
3/27/93 11:03	395	7600
3/28/93 9:00	396	7600
3/28/93 9:00	396	7600
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3/28/93 9:03	396	7600
3/28/93 9:03	396	7600
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3/29/93 18:33	397	7600
3/29/93 18:33	397	7600
3/30/93 9:00	398	7600
3/30/93 9:00	398	7600
3/30/93 9:03	398	7600
3/30/93 9:03	398	7600
3/30/93 9:03	398	7600
3/30/93 17:00	398	7600
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3/31/93 13:00	399	7600
3/31/93 13:00	399	7600
4/1/93 10:00	400	7600
4/1/93 10:00	400	7600
4/1/93 10:00	400	7600
4/1/93 10:05	400	7600
4/1/93 10:05	400	7600
4/1/93 13:00	400	7600
4/1/93 13:00	400	7600
4/2/93 10:30	401	7500

DATE DAYS FPM FLOWTEXT.XLS

4/2/93 10:30	401	7500
4/2/93 10:33	401	7500
4/2/93 10:33	401	7500
4/2/93 14:00	401	7600
4/2/93 14:00	401	7600
4/2/93 14:00	401	7600
4/3/93 13:00	402	7600
4/3/93 13:00	402	7600
4/3/93 13:03	402	7600
4/3/93 13:03	402	7600
4/3/93 13:03	402	7600
4/4/93 14:00	403	7600
4/4/93 14:00	403	7600
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4/4/93 14:03	403	7600
4/5/93 11:00	404	7600
4/5/93 11:00	404	7600
4/5/93 11:03	404	7600
4/5/93 11:03	404	7600
4/5/93 11:03	404	7600
4/5/93 16:00	404	7600
4/5/93 16:00	404	7600
4/6/93 11:30	405	7600
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4/6/93 13:30	405	7600
4/7/93 10:00	406	7600
4/7/93 10:00	406	7600
4/7/93 10:03	406	7600
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4/7/93 10:03	406	7600
4/7/93 13:00	406	7600
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4/8/93 10:05	407	7600
4/8/93 17:30	407	7600
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4/8/93 17:30	407	7600
4/9/93 13:15	408	7600
4/9/93 13:15	408	7600
4/9/93 13:18	408	7600
4/9/93 13:18	408	7600
4/9/93 16:00	408	7600
4/9/93 16:00	408	7600
4/9/93 16:00	408	7600
4/10/93 12:00	409	7600
4/10/93 12:00	409	7600
4/10/93 12:03	409	7600

DATE	DAYS	FPM	FLOWTEXT.XLS
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4/10/93 12:03	409	7600
4/11/93 10:30	410	7600
4/11/93 10:30	410	7600
4/11/93 10:33	410	7600
4/11/93 10:33	410	7600
4/11/93 20:00	410	7600
4/11/93 20:00	410	7600
4/12/93 10:08	411	7600
4/12/93 10:08	411	7600
4/12/93 10:08	411	7600
4/12/93 10:11	411	7600
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4/12/93 12:15	411	7600
4/12/93 12:15	411	7600
4/13/93 11:00	412	7700
4/13/93 11:00	412	7700
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4/16/93 10:30	415	7600
4/16/93 10:33	415	7600
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4/16/93 10:33	415	7600
4/16/93 16:30	415	7600
4/16/93 16:30	415	7600
4/17/93 11:00	416	7600
4/17/93 11:00	416	7600
4/17/93 11:03	416	7600
4/17/93 11:03	416	7600
4/17/93 13:00	416	7600
4/17/93 13:00	416	7600
4/18/93 12:00	417	7600
4/18/93 12:00	417	7600
4/18/93 12:00	417	7600
4/18/93 12:05	417	7600

DATE DAYS FPM

FLOWTEXT.XLS

4/18/93 12:05	417	7600
4/19/93 7:30	418	7600
4/19/93 7:30	418	7600
4/19/93 7:33	418	7600
4/19/93 7:33	418	7600
4/19/93 14:30	418	7600
4/19/93 14:30	418	7600
4/20/93 10:30	419	7600
4/20/93 10:30	419	7600
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4/20/93 10:30	419	7600
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4/20/93 10:33	419	7600
4/20/93 10:33	419	7600
4/20/93 13:00	419	7600
4/20/93 13:00	419	7600
4/21/93 11:00	420	7600
4/21/93 11:00	420	7600
4/21/93 11:03	420	7600
4/21/93 11:03	420	7600
4/21/93 15:00	420	7600
4/21/93 15:00	420	7600
4/21/93 15:00	420	7600
4/22/93 11:30	421	7600
4/22/93 11:30	#VALUE!	7600
4/22/93 11:33	421	7600
4/22/93 11:33	421	7600
4/22/93 15:31	421	7600
4/22/93 15:31	421	7600
4/23/93 10:20	422	7600
4/23/93 10:20	422	7600
4/23/93 10:23	422	7600
4/23/93 10:23	422	7600
4/23/93 22:20	423	7600
4/23/93 22:20	423	7600
4/24/93 12:00	423	7600
4/24/93 12:00	423	7600
4/24/93 12:10	423	7600
4/24/93 12:10	423	7600
4/25/93 7:38	#VALUE!	7600
4/25/93 7:38	#VALUE!	7600
4/25/93 7:42	424	7600
4/25/93 7:42	424	7600
4/25/93 18:45	424	7800
4/25/93 18:45	424	7800
4/26/93 9:08	425	7700
4/26/93 9:08	425	7700
4/26/93 10:45	425	7700
4/26/93 10:45	425	7700
4/26/93 13:18	425	7900
4/26/93 13:18	425	7900
4/27/93 7:45	426	7700

DATE	DAYS	FPM	FLOWTEXT.XLS
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4/27/93 7:45	426	7700
4/27/93 7:45	426	7700
4/27/93 7:47	426	7700
4/27/93 7:47	426	7700
4/27/93 7:47	426	7700
4/27/93 19:15	426	7900
4/27/93 19:15	426	7900
4/28/93 9:13	427	7800
4/28/93 9:13	427	7800
4/28/93 9:15	427	7800
4/28/93 9:15	427	7800
4/28/93 12:10	427	9500
4/28/93 12:10	427	9500
4/28/93 12:12	427	9500
4/28/93 12:12	427	9500
4/29/93 8:15	428	9200
4/29/93 8:15	428	9200
4/29/93 8:18	428	9200
4/29/93 8:18	428	9200
4/29/93 16:08	428	9400
4/29/93 16:08	428	9400
4/29/93 16:08	428	9400
4/30/93 9:12	429	9300
4/30/93 9:12	429	9300
4/30/93 9:15	429	9300
4/30/93 9:15	429	9300
4/30/93 17:26	429	9400
4/30/93 17:26	429	9400

WSRC DATA & CHART

FLOW VOLUME OF EXTRACTION LINE

DATE	DAYS	FLOW (SCFM)	0
2/26/92 10:20	0	0	0
2/26/92 10:42	0	243	
2/26/92 10:47	0	243	
2/26/92 10:51	0	243	
2/26/92 10:59	0	243	
2/26/92 11:20	0	243	
2/26/92 11:26	0	243	
2/26/92 12:20	0	243	
2/26/92 12:28	0	243	
2/26/92 13:26	0	243	
2/26/92 13:38	0	243	
2/26/92 15:20	0	243	
2/26/92 15:25	0	243	
2/26/92 19:30	0	243	
2/26/92 19:50	0	243	
2/26/92 20:30	0	243	
2/26/92 23:20	1	243	
2/26/92 23:25	1	243	
2/27/92 3:20	1	243	
2/27/92 3:23	1	243	
2/27/92 7:20	1	243	
2/27/92 7:23	1	243	
2/27/92 11:22	1	243	
2/27/92 11:27	1	243	
2/27/92 15:22	1	243	
2/27/92 15:26	1	243	
2/27/92 17:20	1	243	
2/27/92 18:10	1	243	
2/28/92 6:20	2	243	
2/28/92 6:23	2	243	
2/28/92 12:15	2	243	
2/28/92 18:20	2	243	
2/28/92 18:20	2	243	
2/29/92 7:05	3	243	
2/29/92 7:10	3	243	
2/29/92 19:10	3	243	
2/29/92 19:15	3	243	
3/1/92 3:05	4	243	
3/1/92 3:12	4	243	
3/1/92 15:00	4	243	
3/1/92 15:05	4	243	
3/2/92 7:45	5	246	
3/2/92 7:50	5	246	
3/2/92 19:00	5	246	
3/2/92 19:05	5	246	
3/5/92 23:45	9	246	
3/5/92 23:48	9	246	
3/6/92 0:45	9	246	
3/6/92 2:45	9	246	

DATES DAYS SCFM

FLOVOLEX.XLS

3/6/92 2:50	9	246
3/6/92 6:45	9	246
3/6/92 10:45	9	246
3/6/92 10:50	9	246
3/6/92 14:45	9	246
3/6/92 14:46	9	246
3/7/92 7:45	10	246
3/7/92 7:50	10	246
3/7/92 16:45	10	246
3/8/92 7:45	11	246
3/8/92 7:50	11	246
3/8/92 16:45	11	246
3/9/92 7:45	12	246
3/9/92 7:50	12	246
3/9/92 16:45	12	246
3/9/92 16:45	12	246
3/10/92 7:45	13	243
3/10/92 7:50	13	243
3/10/92 10:00	13	243
3/10/92 16:45	13	243
3/11/92 7:45	14	234
3/11/92 7:50	14	234
3/11/92 16:45	14	234
3/12/92 7:45	15	234
3/12/92 7:50	15	234
3/12/92 7:50	15	234
3/12/92 15:45	15	246
3/13/92 7:45	16	237
3/13/92 7:50	16	237
3/13/92 16:45	16	237
3/14/92 7:45	17	246
3/14/92 7:50	17	246
3/14/92 15:45	17	249
3/15/92 7:30	18	246
3/15/92 7:35	18	246
3/15/92 16:15	18	246
3/16/92 7:35	19	246
3/16/92 7:40	19	246
3/16/92 7:40	19	246
3/16/92 15:50	19	246
3/17/92 7:50	20	246
3/17/92 7:55	20	246
3/17/92 16:30	20	246
3/18/92 7:50	21	246
3/18/92 7:55	21	246
3/18/92 17:00	21	246
3/19/92 7:45	22	246
3/19/92 7:50	22	246
3/19/92 14:30	22	246
3/20/92 8:00	23	246
3/20/92 8:05	23	246
3/20/92 17:00	23	246
3/21/92 7:45	24	246
3/21/92 7:50	24	246
3/21/92 7:50	24	246
3/21/92 16:00	24	246

DATES DAYS SCFM

FLOVOLEX.XLS

3/22/92 7:40	25	246
3/22/92 7:45	25	246
3/22/92 15:45	25	246
3/23/92 7:45	26	246
3/23/92 7:50	26	246
3/23/92 15:00	26	246
3/24/92 8:00	27	243
3/24/92 8:00	27	243
3/24/92 8:05	27	243
3/24/92 16:45	27	246
3/25/92 8:00	28	246
3/25/92 8:05	28	246
3/25/92 16:30	28	246
3/26/92 7:00	29	246
3/26/92 7:05	29	246
3/26/92 16:00	29	246
3/27/92 8:00	30	246
3/27/92 8:05	30	246
3/27/92 17:00	30	246
3/28/92 6:55	31	246
3/28/92 7:00	31	246
3/28/92 14:00	31	246
3/29/92 6:50	32	246
3/29/92 6:55	32	246
3/29/92 14:55	32	246
4/2/92 15:00	36	249
4/2/92 15:01	36	249
4/2/92 15:05	36	249
4/2/92 17:00	36	246
4/2/92 17:05	36	246
4/2/92 19:00	36	246
4/3/92 8:00	37	246
4/3/92 8:05	37	246
4/3/92 16:05	37	253
4/4/92 6:45	38	246
4/4/92 6:50	38	246
4/5/92 8:00	39	246
4/5/92 8:05	39	246
4/5/92 15:00	39	246
4/5/92 15:00	39	246
4/6/92 9:00	40	246
4/6/92 9:05	40	246
4/6/92 16:00	40	243
4/7/92 9:00	41	246
4/7/92 9:05	41	246
4/7/92 16:00	41	243
4/8/92 8:55	42	240
4/8/92 9:00	42	240
4/8/92 16:00	42	243
4/9/92 7:00	43	246
4/9/92 7:00	43	246
4/9/92 7:05	43	246
4/9/92 16:00	43	246
4/10/92 7:00	44	246
4/10/92 7:05	44	246
4/10/92 15:00	44	246

DATES DAYS SCFM

FLOVOLEX.XLS

4/10/92 15:00	44	246
4/11/92 7:00	45	246
4/11/92 7:05	45	246
4/11/92 13:00	45	246
4/12/92 7:00	46	246
4/12/92 7:05	46	246
4/12/92 13:55	46	246
4/13/92 8:00	47	243
4/13/92 8:05	47	243
4/13/92 16:00	47	246
4/14/92 8:00	48	243
4/14/92 8:00	48	243
4/14/92 8:05	48	243
4/14/92 16:00	48	246
4/15/92 8:00	49	246
4/15/92 8:05	49	246
4/15/92 15:00	49	246
4/16/92 7:00	50	246
4/16/92 7:05	50	246
4/16/92 15:55	50	246
4/17/92 8:00	51	243
4/17/92 8:05	51	243
4/17/92 14:00	51	243
4/18/92 7:00	52	246
4/18/92 7:05	52	246
4/18/92 13:00	52	246
4/19/92 7:00	53	243
4/19/92 7:00	53	243
4/19/92 7:05	53	243
4/19/92 14:05	53	243
4/20/92 7:00	54	243
4/20/92 7:05	54	243
4/20/92 9:00	54	243
4/20/92 16:00	54	243
4/21/92 9:00	55	243
4/21/92 9:05	55	243
4/21/92 16:00	55	243
4/22/92 8:00	56	243
4/22/92 8:00	56	243
4/22/92 8:05	56	243
4/22/92 16:00	56	246
4/23/92 9:00	57	246
4/23/92 9:05	57	246
4/23/92 16:00	57	246
4/23/92 16:05	57	246
4/24/92 9:00	58	246
4/24/92 9:00	58	246
4/24/92 9:05	58	246
4/24/92 14:00	58	246
4/26/92 8:00	60	246
4/26/92 8:05	60	246
4/26/92 14:00	60	246
4/27/92 8:00	61	243
4/27/92 8:00	61	243
4/27/92 8:05	61	243
4/27/92 8:05	61	243

DATES DAYS SCFM

FLOVOLEX.XLS

4/27/92 15:00	61	243
4/27/92 15:00	61	243
4/28/92 8:00	62	243
4/28/92 8:00	62	243
4/28/92 8:05	62	243
4/28/92 8:05	62	243
4/28/92 8:05	62	243
4/28/92 8:05	62	243
4/28/92 15:00	62	246
4/28/92 15:00	62	246
4/29/92 8:00	63	243
4/29/92 8:00	63	243
4/29/92 8:05	63	243
4/29/92 8:05	63	243
4/29/92 15:00	63	246
4/29/92 15:00	63	246
4/30/92 8:00	64	246
4/30/92 8:00	64	246
4/30/92 8:05	64	246
4/30/92 8:05	64	246
4/30/92 16:00	64	246
4/30/92 16:00	64	246
5/1/92 8:00	65	246
5/1/92 8:00	65	246
5/1/92 8:05	65	246
5/1/92 8:05	65	246
5/1/92 15:00	65	246
5/1/92 15:00	65	246
5/2/92 8:00	66	246
5/2/92 8:00	66	246
5/2/92 8:05	66	246
5/2/92 8:05	66	246
5/3/92 8:00	67	246
5/3/92 8:00	67	246
5/3/92 8:00	67	246
5/3/92 8:05	67	246
5/3/92 8:05	67	246
5/4/92 8:00	68	243
5/4/92 8:00	68	243
5/4/92 8:05	68	243
5/4/92 8:05	68	243
5/4/92 8:05	68	243
5/4/92 15:00	68	246
5/4/92 15:00	68	246
5/5/92 8:00	69	243
5/5/92 8:00	69	243
5/5/92 8:05	69	243
5/5/92 8:05	69	243
5/5/92 15:00	69	246
5/5/92 15:00	69	246
5/6/92 8:00	70	243
5/6/92 8:00	70	243
5/6/92 8:00	70	243
5/6/92 8:05	70	243
5/6/92 8:05	70	243
5/6/92 16:00	70	243

DATES DAYS SCFM

FLOVOLEX.XLS

5/6/92 16:00	70	243
5/7/92 7:00	71	246
5/7/92 7:00	71	246
5/7/92 7:05	71	246
5/7/92 7:05	71	246
5/7/92 15:00	71	246
5/7/92 15:00	71	246
5/8/92 7:00	72	246
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5/8/92 7:00	72	246
5/8/92 7:00	72	246
5/8/92 7:05	72	246
5/8/92 7:05	72	246
5/8/92 13:00	72	246
5/8/92 13:00	72	246
5/8/92 13:00	72	246
5/9/92 8:00	73	243
5/9/92 8:00	73	243
5/9/92 8:05	73	243
5/9/92 8:05	73	243
5/10/92 8:00	74	246
5/10/92 8:00	74	246
5/10/92 8:05	74	246
5/10/92 8:05	74	246
5/11/92 8:00	75	246
5/11/92 8:00	75	246
5/11/92 8:05	75	246
5/11/92 8:05	75	246
5/11/92 14:00	75	246
5/11/92 14:00	75	246
5/11/92 14:00	75	246
5/12/92 8:00	76	246
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5/12/92 14:00	76	246
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5/13/92 8:00	77	246
5/13/92 8:00	77	246
5/13/92 8:05	77	246
5/13/92 8:05	77	246
5/13/92 14:00	77	246
5/13/92 14:00	77	246
5/14/92 7:00	78	246
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5/14/92 7:05	78	246
5/14/92 7:05	78	246
5/14/92 15:00	78	246
5/14/92 15:00	78	246
5/14/92 15:00	78	246
5/15/92 7:00	79	246
5/15/92 7:00	79	246
5/15/92 7:05	79	246
5/15/92 7:05	79	246
5/15/92 14:00	79	246

DATES DAYS SCFM

FLOVOLEX.XLS

5/15/92 14:00	79	246
5/16/92 10:00	80	246
5/16/92 10:00	80	246
5/16/92 10:00	80	246
5/16/92 10:05	80	246
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5/17/92 8:00	81	246
5/17/92 8:00	81	246
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5/17/92 8:05	81	246
5/18/92 17:05	82	246
5/18/92 17:05	82	246
5/18/92 17:10	82	246
5/18/92 17:10	82	246
5/19/92 8:00	83	246
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5/19/92 8:05	83	246
5/19/92 8:05	83	246
5/19/92 15:00	83	246
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5/19/92 15:00	83	246
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5/22/92 7:05	86	246
5/22/92 7:05	86	246
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5/22/92 13:05	86	246
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5/22/92 13:05	86	246
5/23/92 8:00	87	246
5/23/92 8:00	87	246
5/23/92 8:05	87	246
5/23/92 8:05	87	246
5/24/92 8:00	88	246
5/24/92 8:00	88	246
5/24/92 8:05	88	246
5/24/92 8:05	88	246
5/25/92 8:00	89	246
5/25/92 8:00	89	246
5/25/92 8:00	89	246
5/25/92 8:05	89	246
5/25/92 8:05	89	246

DATES DAYS SCFM

FLOVOLEX.XLS

5/25/92 17:00	89	246
5/25/92 17:00	89	246
5/26/92 8:00	90	243
5/26/92 8:00	90	243
5/26/92 8:05	90	243
5/26/92 8:05	90	243
5/26/92 14:00	90	243
5/26/92 14:00	90	243
5/26/92 14:00	90	243
5/27/92 8:00	91	243
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5/27/92 8:05	91	243
5/27/92 8:05	91	243
5/27/92 13:00	91	243
5/27/92 13:00	91	243
5/28/92 8:00	92	246
5/28/92 8:00	92	246
5/28/92 8:05	92	246
5/28/92 8:05	92	246
5/28/92 8:05	92	246
5/28/92 16:00	92	246
5/28/92 16:00	92	246
5/28/92 16:00	92	246
5/29/92 6:05	93	246
5/29/92 6:05	93	246
5/29/92 6:10	93	246
5/29/92 6:10	93	246
5/29/92 12:00	93	246
5/29/92 12:00	93	246
5/29/92 12:00	93	246
5/30/92 8:00	94	246
5/30/92 8:00	94	246
5/30/92 8:05	94	246
5/30/92 8:05	94	246
5/31/92 10:00	95	243
5/31/92 10:00	95	243
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5/31/92 10:05	95	243
6/1/92 8:00	96	243
6/1/92 8:00	96	243
6/1/92 8:05	96	243
6/1/92 8:05	96	243
6/1/92 14:00	96	243
6/1/92 14:00	96	243
6/2/92 8:00	97	243
6/2/92 8:00	97	243
6/2/92 8:05	97	243
6/2/92 8:05	97	243
6/2/92 8:05	97	243
6/2/92 14:00	97	243
6/2/92 14:00	97	243
6/2/92 14:00	97	243
6/3/92 8:00	98	243
6/3/92 8:00	98	243
6/3/92 8:05	98	243
6/3/92 8:05	98	243

DATES DAYS SCFM

FLOVOLEX.XLS

6/3/92 14:00	98	243
6/3/92 14:00	98	243
6/4/92 8:00	99	243
6/4/92 8:00	99	243
6/4/92 8:05	99	243
6/4/92 8:05	99	243
6/4/92 14:00	99	243
6/4/92 14:00	99	243
6/4/92 14:00	99	243
6/5/92 8:00	100	243
6/5/92 8:00	100	243
6/5/92 8:05	100	243
6/5/92 8:05	100	243
6/6/92 16:00	101	246
6/6/92 16:00	101	246
6/6/92 16:00	101	246
6/6/92 16:05	101	246
6/6/92 16:05	101	246
6/7/92 11:00	102	243
6/7/92 11:00	102	243
6/7/92 11:05	102	243
6/7/92 11:05	102	243
6/8/92 8:00	103	243
6/8/92 8:00	103	243
6/8/92 8:05	103	243
6/8/92 8:05	103	243
6/10/92 8:00	105	246
6/10/92 8:00	105	246
6/10/92 8:00	105	246
6/10/92 8:05	105	246
6/10/92 8:05	105	246
6/10/92 14:00	105	246
6/10/92 14:00	105	246
6/11/92 8:00	106	247
6/11/92 8:00	106	247
6/11/92 8:05	106	247
6/11/92 8:05	106	247
6/11/92 8:05	106	247
6/11/92 14:00	106	247
6/11/92 14:00	106	247
6/11/92 14:00	106	247
6/12/92 8:00	107	243
6/12/92 8:00	107	243
6/12/92 8:00	107	243
6/12/92 8:00	107	243
6/12/92 8:00	107	243
6/12/92 12:00	107	243
6/12/92 12:00	107	243
6/13/92 12:00	108	243
6/13/92 12:00	108	243
6/13/92 12:00	108	243
6/13/92 12:00	108	243
6/13/92 12:00	108	243
6/13/92 12:00	108	243
6/14/92 13:00	109	243
6/14/92 13:00	109	243

DATES DAYS SCFM

FLOVOLEX.XLS

6/14/92 13:00	109	243
6/14/92 13:00	109	243
6/15/92 9:30	110	243
6/15/92 9:30	110	243
6/15/92 9:35	110	243
6/15/92 9:35	110	243
6/15/92 15:00	110	243
6/15/92 15:00	110	243
6/16/92 8:00	111	243
6/16/92 8:00	111	243
6/16/92 8:05	111	243
6/16/92 8:05	111	243
6/16/92 14:00	111	243
6/16/92 14:00	111	243
6/17/92 8:00	112	243
6/17/92 8:00	112	243
6/17/92 8:00	112	243
6/17/92 8:00	112	243
6/17/92 8:05	112	243
6/17/92 8:05	112	243
6/17/92 13:00	112	243
6/17/92 13:00	112	243
6/18/92 8:00	113	243
6/18/92 8:00	113	243
6/18/92 8:05	113	243
6/18/92 8:05	113	243
6/18/92 16:25	113	243
6/18/92 16:25	113	243
6/19/92 9:08	114	243
6/19/92 9:08	114	243
6/19/92 9:08	114	243
6/19/92 9:21	114	243
6/19/92 9:21	114	243
6/19/92 12:15	114	243
6/19/92 12:15	114	243
6/23/92 8:30	118	246
6/23/92 8:30	118	246
6/23/92 8:30	118	246
6/23/92 8:30	118	246
6/23/92 13:30	118	246
6/23/92 13:30	118	246
6/24/92 8:00	119	243
6/24/92 8:00	119	243
6/24/92 8:00	119	243
6/24/92 8:00	119	243
6/24/92 8:00	119	243
6/24/92 8:00	119	243
6/24/92 12:00	119	243
6/24/92 12:00	119	243
6/25/92 8:00	120	243
6/25/92 8:00	120	243
6/25/92 8:00	120	243
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6/25/92 12:30	120	243
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6/26/92 8:30	121	243

DATES DAYS SCFM

FLOVOLEX.XLS

6/26/92 8:30	121	243
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7/2/92 8:05	127	243
7/2/92 13:30	127	243
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7/3/92 8:00	128	243
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7/3/92 12:00	128	243
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7/4/92 11:00	129	246
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7/4/92 11:05	129	246
7/5/92 11:00	130	243
7/5/92 11:00	130	243

DATES DAYS SCFM

FLOVOLEX.XLS

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7/7/92 9:35	132	243
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7/8/92 8:00	133	243
7/8/92 8:00	133	243
7/8/92 8:05	133	243
7/8/92 8:05	133	243
7/8/92 15:00	133	243
7/8/92 15:00	133	243
7/9/92 9:00	134	246
7/9/92 9:00	134	246
7/9/92 9:05	134	246
7/9/92 9:05	134	246
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7/11/92 9:30	136	246
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7/12/92 10:24	137	246
7/12/92 10:24	137	246
7/13/92 8:40	138	246
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7/13/92 8:43	138	246
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7/14/92 8:40	139	246
7/14/92 8:43	139	246
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7/14/92 13:25	139	246
7/14/92 13:25	139	246
7/15/92 8:11	140	246

DATES DAYS SCFM

FLOVOLEX.XLS

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7/17/92 13:29	142	246
7/17/92 13:29	142	246
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7/23/92 8:07	148	246
7/23/92 13:30	148	242
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7/25/92 8:10	150	242
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7/27/92 8:05	152	237
7/27/92 8:05	152	237
7/27/92 13:00	152	243
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7/28/92 10:00	153	243
7/28/92 10:00	153	243
7/28/92 10:05	153	243
7/28/92 10:05	153	243
7/28/92 12:00	153	243
7/28/92 12:00	153	243
7/29/92 9:00	154	243
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7/29/92 9:05	154	243
7/29/92 9:05	154	243
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7/30/92 7:00	155	243
7/30/92 7:00	155	243
7/30/92 7:05	155	243
7/30/92 7:05	155	243
7/30/92 7:05	155	243
7/30/92 12:00	155	243
7/30/92 12:00	155	243
7/31/92 9:00	156	243
7/31/92 9:00	156	243
7/31/92 9:00	156	243
7/31/92 9:05	156	243
7/31/92 9:05	156	243
7/31/92 12:00	156	243
7/31/92 12:00	156	243
8/6/92 8:00	162	246
8/6/92 8:00	162	246
8/6/92 8:05	162	246
8/6/92 8:05	162	246
8/6/92 12:00	162	246
8/6/92 12:00	162	246
8/7/92 8:20	163	246
8/7/92 8:20	163	246
8/7/92 8:25	163	246

DATES DAYS SCFM

FLOVOLEX.XLS

8/7/92 8:25	163	246
8/7/92 13:22	163	246
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8/8/92 9:30	164	246
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8/8/92 9:35	164	246
8/8/92 9:35	164	246
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8/9/92 8:00	165	246
8/9/92 8:05	165	246
8/9/92 8:05	165	246
8/10/92 7:35	166	246
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8/10/92 7:40	166	246
8/10/92 13:20	166	246
8/10/92 13:20	166	246
8/11/92 8:00	167	246
8/11/92 8:00	167	246
8/11/92 8:00	167	246
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8/11/92 8:05	167	246
8/11/92 13:00	167	246
8/11/92 13:00	167	246
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8/13/92 8:20	169	243
8/13/92 8:25	169	243
8/13/92 8:25	169	243
8/13/92 15:00	169	246
8/13/92 15:00	169	246
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8/14/92 8:15	170	237
8/14/92 8:20	170	237
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8/15/92 8:20	171	246
8/15/92 8:25	171	246
8/15/92 8:25	171	246
8/16/92 8:15	172	246
8/16/92 8:15	172	246
8/16/92 8:20	172	246
8/16/92 8:20	172	246
8/17/92 9:00	173	243
8/17/92 9:00	173	243
8/17/92 9:00	173	243

8/17/92 9:00	173	243
8/17/92 9:05	173	243
8/17/92 9:05	173	243
8/17/92 14:30	173	243
8/17/92 14:30	173	243
8/18/92 8:25	174	246
8/18/92 8:25	174	246
8/18/92 8:30	174	246
8/18/92 8:30	174	246
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8/20/92 17:05	176	246
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8/21/92 8:00	177	246
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8/22/92 9:35	178	243
8/23/92 10:00	179	246
8/23/92 10:00	179	246
8/23/92 10:05	179	246
8/23/92 10:05	179	246
8/24/92 8:16	180	246
8/24/92 8:16	180	246
8/24/92 8:21	180	246
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8/24/92 8:21	180	246
8/24/92 13:30	180	246
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8/25/92 8:50	181	246
8/25/92 8:50	181	246
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8/26/92 8:30	182	246
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8/26/92 8:35	182	246
8/26/92 8:35	182	246
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8/26/92 13:30	182	246
8/27/92 8:00	183	246
8/27/92 8:00	183	246

DATES DAYS SCFM

FLOVOLEX.XLS

8/27/92 8:05	183	246
8/27/92 8:05	183	246
8/27/92 13:30	183	246
8/27/92 13:30	183	246
8/27/92 13:30	183	246
8/28/92 8:30	184	246
8/28/92 8:30	184	246
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8/28/92 8:35	184	246
8/28/92 13:00	184	246
8/28/92 13:00	184	246
8/28/92 13:00	184	246
8/29/92 9:00	185	243
8/29/92 9:00	185	243
8/29/92 9:05	185	243
8/29/92 9:05	185	243
8/30/92 9:00	186	246
8/30/92 9:00	186	246
8/30/92 9:05	186	246
8/30/92 9:05	186	246
8/31/92 8:30	187	243
8/31/92 8:30	187	243
8/31/92 8:35	187	243
8/31/92 8:35	187	243
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8/31/92 13:00	187	243
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9/1/92 21:30	188	246
9/1/92 21:30	188	246
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9/2/91 9:36	-177	246
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9/2/91 13:30	-177	246
9/2/91 13:30	-177	246
9/3/92 8:00	190	246
9/3/92 8:00	190	246
9/3/92 8:05	190	246
9/3/92 8:05	190	246
9/3/92 13:40	190	246
9/3/92 13:40	190	246
9/4/92 8:30	191	246
9/4/92 8:30	191	246
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9/4/92 12:00	191	246
9/4/92 12:00	191	246
9/5/92 13:00	192	243
9/5/92 13:00	192	243
9/5/92 13:00	192	243
9/5/92 13:05	192	243
9/5/92 13:05	192	243
9/6/92 9:55	193	246

DATES DAYS SCFM

FLOVOLEX.XLS

9/6/92 9:55	193	246
9/6/92 9:55	193	246
9/6/92 10:00	193	246
9/6/92 10:00	193	246
9/7/92 10:00	194	246
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9/7/92 10:05	194	246
9/7/92 12:30	194	246
9/7/92 12:30	194	246
9/8/92 8:55	195	243
9/8/92 8:55	195	243
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9/8/92 9:00	195	243
9/8/92 12:55	195	246
9/8/92 12:55	195	246
9/9/92 8:55	196	243
9/9/92 8:55	196	243
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9/11/92 12:00	198	243
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9/14/92 16:05	201	243
9/14/92 16:05	201	243
9/15/92 9:00	202	243
9/15/92 9:00	202	243

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9/15/92 9:05	202	243
9/15/92 13:00	202	243
9/15/92 13:00	202	243
9/16/92 9:40	203	243
9/16/92 9:40	203	243
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9/17/92 14:00	204	246
9/17/92 14:00	204	246
9/18/92 9:00	205	243
9/18/92 9:00	205	243
9/18/92 9:05	205	243
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9/18/92 9:05	205	243
9/18/92 13:30	205	246
9/18/92 13:30	205	246
9/19/92 9:00	206	243
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9/21/92 14:00	208	243
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9/22/92 8:30	209	243
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9/22/92 13:00	209	243
9/23/92 8:30	210	243
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9/23/92 8:35	210	243
9/23/92 8:35	210	243
9/23/92 13:00	210	246
9/23/92 13:00	210	246
9/24/92 8:15	211	237
9/24/92 8:15	211	237

DATES DAYS SCFM

FLOVOLEX.XLS

9/24/92 8:20	211	237
9/24/92 8:20	211	237
9/24/92 13:00	211	234
9/24/92 13:00	211	234
9/24/92 13:00	211	234
9/27/92 8:30	214	246
9/27/92 8:30	214	246
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9/27/92 8:35	214	246
9/28/92 8:00	215	234
9/28/92 8:00	215	234
9/28/92 8:05	215	234
9/28/92 8:05	215	234
9/28/92 13:00	215	243
9/28/92 13:00	215	243
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9/29/92 8:35	216	234
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10/6/92 9:00	223	237
10/6/92 9:00	223	237
10/6/92 9:00	223	237
10/6/92 9:05	223	237
10/6/92 9:05	223	237
10/6/92 13:30	223	243

10/6/92 13:30	223	243
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2/3/93 15:00	343	243
2/4/93 10:00	344	243
2/4/93 10:00	344	243
2/4/93 10:00	344	243
2/4/93 10:03	344	243
2/4/93 10:03	344	243
2/4/93 15:00	344	243
2/4/93 15:00	344	243
2/5/93 10:00	345	243
2/5/93 10:00	345	243
2/5/93 10:03	345	243
2/5/93 10:03	345	243
2/5/93 15:30	345	243
2/5/93 15:30	345	243
2/5/93 15:30	345	243
2/7/93 15:00	347	240
2/7/93 15:00	347	240
2/7/93 15:03	347	240
2/7/93 15:03	347	240
2/8/93 10:30	348	240
2/8/93 10:30	348	240
2/8/93 10:30	348	240
2/8/93 10:33	348	240
2/8/93 10:33	348	240
2/8/93 15:00	348	243
2/8/93 15:00	348	243
2/9/93 10:30	349	243
2/9/93 10:30	349	243
2/9/93 10:33	349	243
2/9/93 10:33	349	243
2/10/93 13:00	350	243
2/10/93 13:00	350	243
2/10/93 13:05	350	243
2/10/93 13:05	350	243
2/11/93 9:00	351	243

DATES DAYS SCFM

FLOVOLEX.XLS

2/11/93 9:00	351	243
2/11/93 9:00	351	243
2/11/93 9:03	351	243
2/11/93 9:03	351	243
2/11/93 14:00	351	243
2/11/93 14:00	351	243
2/12/93 10:00	352	240
2/12/93 10:00	352	240
2/12/93 10:03	352	240
2/12/93 10:03	352	240
2/12/93 16:00	352	243
2/12/93 16:00	352	243
2/13/93 11:30	353	237
2/13/93 11:30	353	237
2/13/93 11:33	353	237
2/13/93 11:33	353	237
2/14/93 19:00	354	240
2/14/93 19:00	354	240
2/14/93 19:03	354	240
2/14/93 19:03	354	240
2/15/93 9:00	355	237
2/15/93 9:00	355	237
2/15/93 9:00	355	237
2/15/93 9:00	355	237
2/15/93 9:03	355	237
2/15/93 9:03	355	237
2/15/93 14:30	355	237
2/15/93 14:30	355	237
2/16/93 9:00	356	237
2/16/93 9:00	356	237
2/16/93 9:05	356	237
2/16/93 9:05	356	237
2/16/93 14:30	356	237
2/16/93 14:30	356	237
2/17/93 9:00	357	234
2/17/93 9:00	357	234
2/17/93 9:05	357	234
2/17/93 9:05	357	234
2/17/93 15:00	357	237
2/17/93 15:00	357	237
2/18/93 10:00	358	234
2/18/93 10:00	358	234
2/18/93 10:05	358	234
2/18/93 10:05	358	234
2/18/93 10:05	358	234
2/18/93 10:05	358	234
2/18/93 14:00	358	234
2/18/93 14:00	358	234
2/19/93 9:30	359	234
2/19/93 9:30	359	234
2/19/93 9:35	359	234
2/19/93 9:35	359	234
2/19/93 14:00	359	240
2/19/93 14:00	359	240
2/19/93 14:00	359	240
2/24/93 11:00	364	234

DATES DAYS SCFM

FLOVOLEX.XLS

2/24/93 11:00	364	234
2/24/93 11:05	364	234
2/24/93 11:05	364	234
2/24/93 15:50	364	234
2/24/93 15:50	364	234
2/25/93 9:30	365	234
2/25/93 9:30	365	234
2/25/93 9:33	365	234
2/25/93 9:33	365	234
2/25/93 9:33	365	234
2/25/93 13:55	365	234
2/25/93 13:55	365	234
2/25/93 13:55	365	234
2/26/93 9:30	366	234
2/26/93 9:30	366	234
2/26/93 9:35	366	234
2/26/93 9:35	366	234
2/26/93 13:30	366	234
2/26/93 13:30	366	234
2/27/93 13:00	367	234
2/27/93 13:00	367	234
2/27/93 13:03	367	234
2/27/93 13:03	367	234
2/27/93 13:03	367	234
2/28/93 10:00	368	234
2/28/93 10:00	368	234
2/28/93 10:00	368	234
2/28/93 10:05	368	234
2/28/93 10:05	368	234
2/28/93 15:45	368	234
2/28/93 15:45	368	234
3/1/93 10:00	369	234
3/1/93 10:00	369	234
3/1/93 10:05	369	234
3/1/93 10:05	369	234
3/1/93 15:00	369	234
3/1/93 15:00	369	234
3/2/93 8:30	370	234
3/2/93 8:30	370	234
3/2/93 8:35	370	234
3/2/93 8:35	370	234
3/2/93 15:00	370	234
3/2/93 15:00	370	234
3/3/93 10:00	371	234
3/3/93 10:00	371	234
3/3/93 10:05	371	234
3/3/93 10:05	371	234
3/3/93 10:05	371	234
3/3/93 14:00	371	234
3/3/93 14:00	371	234
3/3/93 14:00	371	234
3/4/93 10:00	372	234
3/4/93 10:00	372	234
3/4/93 10:05	372	234
3/4/93 10:05	372	234
3/4/93 13:30	372	234

DATES DAYS SCFM

FLOVOLEX.XLS

3/4/93 13:30	372	234
3/4/93 17:00	372	234
3/5/93 9:30	373	232
3/5/93 9:30	373	232
3/5/93 9:35	373	232
3/5/93 9:35	373	232
3/5/93 9:35	373	232
3/5/93 14:30	373	232
3/5/93 14:30	373	232
3/5/93 14:30	373	232
3/6/93 10:00	374	234
3/6/93 10:00	374	234
3/6/93 10:00	374	234
3/6/93 10:03	374	234
3/6/93 10:03	374	234
3/6/93 16:30	374	234
3/6/93 16:30	374	234
3/7/93 13:00	375	234
3/7/93 13:00	375	234
3/7/93 13:03	375	234
3/7/93 13:03	375	234
3/8/93 10:30	376	234
3/8/93 10:30	376	234
3/8/93 10:35	376	234
3/8/93 10:35	376	234
3/8/93 16:00	376	234
3/8/93 16:00	376	234
3/9/93 10:00	377	234
3/9/93 10:00	377	234
3/9/93 10:05	377	234
3/9/93 10:05	377	234
3/9/93 10:05	377	234
3/9/93 14:00	377	234
3/9/93 14:00	377	234
3/9/93 14:00	377	234
3/10/93 9:30	378	234
3/10/93 9:30	378	234
3/10/93 9:33	378	234
3/10/93 9:33	378	234
3/10/93 13:00	378	237
3/10/93 13:00	378	237
3/11/93 8:00	379	234
3/11/93 8:00	379	234
3/11/93 8:03	379	234
3/11/93 8:03	379	234
3/11/93 12:00	379	234
3/11/93 12:00	379	234
3/12/93 10:00	380	234
3/12/93 10:00	380	234
3/12/93 10:00	380	234
3/12/93 10:00	380	234
3/12/93 10:05	380	234
3/12/93 10:05	380	234
3/12/93 14:00	380	234
3/12/93 14:00	380	234
3/13/93 13:00	381	234

DATES DAYS SCFM

FLOVOLEX.XLS

3/13/93 13:00	381	234
3/13/93 13:03	381	234
3/13/93 13:03	381	234
3/13/93 13:03	381	234
3/14/93 15:00	382	237
3/14/93 15:00	382	237
3/14/93 15:03	382	237
3/14/93 15:03	382	237
3/14/93 15:03	382	237
3/15/93 14:00	383	234
3/15/93 14:00	383	234
3/15/93 14:05	383	234
3/15/93 14:05	383	234
3/16/93 9:30	384	234
3/16/93 9:30	384	234
3/16/93 9:33	384	234
3/16/93 9:33	384	234
3/16/93 15:30	384	234
3/16/93 15:30	384	234
3/17/93 9:00	385	234
3/17/93 9:00	385	234
3/17/93 9:03	385	234
3/17/93 9:03	385	234
3/17/93 13:00	385	234
3/17/93 13:00	385	234
3/17/93 13:00	385	234
3/18/93 9:00	386	234
3/18/93 9:00	386	234
3/18/93 9:03	386	234
3/18/93 9:03	386	234
3/18/93 9:03	386	234
3/18/93 13:00	386	234
3/18/93 13:00	386	234
3/19/93 10:30	387	234
3/19/93 10:30	387	234
3/19/93 10:30	387	234
3/19/93 10:30	387	234
3/19/93 10:33	387	234
3/19/93 10:33	387	234
3/19/93 14:00	387	234
3/19/93 14:00	387	234
3/20/93 9:30	388	234
3/20/93 9:30	388	234
3/20/93 9:33	388	234
3/20/93 9:33	388	234
3/20/93 13:00	388	237
3/20/93 13:00	388	237
3/21/93 9:30	389	234
3/21/93 9:30	389	234
3/21/93 9:30	389	234
3/21/93 9:33	389	234
3/21/93 9:33	389	234
3/22/93 9:30	390	234
3/22/93 9:30	390	234
3/22/93 9:33	390	234
3/22/93 9:33	390	234

DATES DAYS SCFM

FLOVOLEX.XLS

3/22/93 15:00	390	234
3/22/93 15:00	390	234
3/23/93 11:00	391	234
3/23/93 11:00	391	234
3/23/93 11:00	391	234
3/23/93 11:03	391	234
3/23/93 11:03	391	234
3/23/93 15:00	391	234
3/23/93 15:00	391	234
3/24/93 7:00	392	234
3/24/93 7:00	392	234
3/24/93 7:05	392	234
3/24/93 7:05	392	234
3/24/93 16:00	392	234
3/24/93 16:00	392	234
3/24/93 16:00	392	234
3/25/93 9:30	393	234
3/25/93 9:30	393	234
3/25/93 9:30	393	234
3/25/93 9:33	393	234
3/25/93 9:33	393	234
3/25/93 13:30	393	234
3/25/93 13:30	393	234
3/26/93 9:00	394	237
3/26/93 9:00	394	237
3/26/93 9:03	394	237
3/26/93 9:03	394	237
3/26/93 13:00	394	237
3/26/93 13:00	394	237
3/27/93 11:00	395	234
3/27/93 11:00	395	234
3/27/93 11:03	395	234
3/27/93 11:03	395	234
3/28/93 9:00	396	234
3/28/93 9:00	396	234
3/28/93 9:00	396	234
3/28/93 9:03	396	234
3/28/93 9:03	396	234
3/28/93 13:00	396	234
3/28/93 13:00	396	234
3/29/93 10:00	397	234
3/29/93 10:00	397	234
3/29/93 10:05	397	234
3/29/93 10:05	397	234
3/29/93 18:33	397	234
3/29/93 18:33	397	234
3/30/93 9:00	398	234
3/30/93 9:00	398	234
3/30/93 9:03	398	234
3/30/93 9:03	398	234
3/30/93 9:03	398	234
3/30/93 17:00	398	234
3/30/93 17:00	398	234
3/31/93 10:30	399	234
3/31/93 10:30	399	234
3/31/93 10:33	399	234

DATES DAYS SCFM

FLOVOLEX.XLS

3/31/93 10:33	399	234
3/31/93 10:33	399	234
3/31/93 13:00	399	234
3/31/93 13:00	399	234
4/1/93 10:00	400	234
4/1/93 10:00	400	234
4/1/93 10:00	400	234
4/1/93 10:05	400	234
4/1/93 10:05	400	234
4/1/93 13:00	400	234
4/1/93 13:00	400	234
4/2/93 10:30	401	231
4/2/93 10:30	401	231
4/2/93 10:33	401	231
4/2/93 10:33	401	231
4/2/93 14:00	401	234
4/2/93 14:00	401	234
4/2/93 14:00	401	234
4/3/93 13:00	402	234
4/3/93 13:00	402	234
4/3/93 13:03	402	234
4/3/93 13:03	402	234
4/3/93 13:03	402	234
4/3/93 13:03	402	234
4/4/93 14:00	403	234
4/4/93 14:00	403	234
4/4/93 14:03	403	234
4/4/93 14:03	403	234
4/5/93 11:00	404	234
4/5/93 11:00	404	234
4/5/93 11:03	404	234
4/5/93 11:03	404	234
4/5/93 11:03	404	234
4/5/93 16:00	404	234
4/5/93 16:00	404	234
4/6/93 11:30	405	234
4/6/93 11:30	405	234
4/6/93 11:33	405	234
4/6/93 11:33	405	234
4/6/93 13:30	405	234
4/6/93 13:30	405	234
4/7/93 10:00	406	234
4/7/93 10:00	406	234
4/7/93 10:03	406	234
4/7/93 10:03	406	234
4/7/93 10:03	406	234
4/7/93 13:00	406	234
4/7/93 13:00	406	234
4/8/93 10:00	407	234
4/8/93 10:00	407	234
4/8/93 10:05	407	234
4/8/93 10:05	407	234
4/8/93 17:30	407	234
4/8/93 17:30	407	234
4/8/93 17:30	407	234
4/9/93 13:15	408	234
4/9/93 13:15	408	234

DATES DAYS SCFM

FLOVOLEX.XLS

4/9/93 13:18	408	234
4/9/93 13:18	408	234
4/9/93 16:00	408	234
4/9/93 16:00	408	234
4/9/93 16:00	408	234
4/10/93 12:00	409	234
4/10/93 12:00	409	234
4/10/93 12:03	409	234
4/10/93 12:03	409	234
4/11/93 10:30	410	234
4/11/93 10:30	410	234
4/11/93 10:33	410	234
4/11/93 10:33	410	234
4/11/93 20:00	410	234
4/11/93 20:00	410	234
4/12/93 10:08	411	234
4/12/93 10:08	411	234
4/12/93 10:08	411	234
4/12/93 10:11	411	234
4/12/93 10:11	411	234
4/12/93 12:15	411	234
4/12/93 12:15	411	234
4/13/93 11:00	412	237
4/13/93 11:00	412	237
4/13/93 11:03	412	237
4/13/93 11:03	412	237
4/13/93 15:30	412	234
4/13/93 15:30	412	234
4/14/93 11:00	413	237
4/14/93 11:00	413	237
4/14/93 11:00	413	237
4/14/93 11:05	413	237
4/14/93 11:05	413	237
4/14/93 14:00	413	240
4/14/93 14:00	413	240
4/15/93 10:00	414	234
4/15/93 10:00	414	234
4/15/93 10:03	414	234
4/15/93 10:03	414	234
4/15/93 10:03	414	234
4/15/93 17:00	414	234
4/15/93 17:00	414	234
4/15/93 17:00	414	234
4/16/93 10:30	415	234
4/16/93 10:30	415	234
4/16/93 10:33	415	234
4/16/93 10:33	415	234
4/16/93 10:33	415	234
4/16/93 16:30	415	234
4/16/93 16:30	415	234
4/17/93 11:00	416	234
4/17/93 11:00	416	234
4/17/93 11:03	416	234
4/17/93 11:03	416	234
4/17/93 13:00	416	234
4/17/93 13:00	416	234

DATES DAYS SCFM

FLOVOLEX.XLS

4/18/93 12:00	417	234
4/18/93 12:00	417	234
4/18/93 12:00	417	234
4/18/93 12:05	417	234
4/18/93 12:05	417	234
4/19/93 7:30	418	234
4/19/93 7:30	418	234
4/19/93 7:33	418	234
4/19/93 7:33	418	234
4/19/93 14:30	418	234
4/19/93 14:30	418	234
4/20/93 10:30	419	234
4/20/93 10:30	419	234
4/20/93 10:33	419	234
4/20/93 10:33	419	234
4/20/93 13:00	419	234
4/20/93 13:00	419	234
4/21/93 11:00	420	234
4/21/93 11:00	420	234
4/21/93 11:03	420	234
4/21/93 11:03	420	234
4/21/93 15:00	420	234
4/21/93 15:00	420	234
4/21/93 15:00	420	234
4/22/93 11:30	421	234
4/22/93 11:30	#VALUE!	234
4/22/93 11:33	421	234
4/22/93 11:33	421	234
4/22/93 15:31	421	234
4/22/93 15:31	421	234
4/23/93 10:20	422	234
4/23/93 10:20	422	234
4/23/93 10:23	422	234
4/23/93 10:23	422	234
4/23/93 22:20	423	234
4/23/93 22:20	423	234
4/24/93 12:00	423	234
4/24/93 12:00	423	234
4/24/93 12:10	423	234
4/24/93 12:10	423	234
4/25/93 7:38	#VALUE!	234
4/25/93 7:38	#VALUE!	234
4/25/93 7:42	424	234
4/25/93 7:42	424	234
4/25/93 18:45	424	240
4/25/93 18:45	424	240
4/26/93 9:08	425	237
4/26/93 9:08	425	237
4/26/93 10:45	425	237
4/26/93 10:45	425	237
4/26/93 13:18	425	243
4/26/93 13:18	425	243
4/27/93 7:45	426	237
4/27/93 7:45	426	237
4/27/93 7:45	426	237
4/27/93 7:47	426	237

DATES DAYS SCFM

FLOVOLEX.XLS

4/27/93 7:47	426	237
4/27/93 7:47	426	237
4/27/93 19:15	426	243
4/27/93 19:15	426	243
4/28/93 9:13	427	240
4/28/93 9:13	427	240
4/28/93 9:15	427	240
4/28/93 9:15	427	240
4/28/93 12:10	427	292
4/28/93 12:10	427	292
4/28/93 12:12	427	292
4/28/93 12:12	427	292
4/29/93 8:15	428	283
4/29/93 8:15	428	283
4/29/93 8:18	428	283
4/29/93 8:18	428	283
4/29/93 16:08	428	289
4/29/93 16:08	428	289
4/29/93 16:08	428	289
4/30/93 9:12	429	286
4/30/93 9:12	429	286
4/30/93 9:15	429	286
4/30/93 9:15	429	286
4/30/93 17:26	429	290
4/30/93 17:26	429	290

DATE

DAYS

TEMP F

TEMPEXT.XLS

WSRC DATA & CHART

TEMPERATURE OF EXTRACTION LINE AT BLOWER EXIT

DATE	DAYS	Temp °F
		0
2/26/92 10:20	0	0
2/26/92 10:42	0	0
2/26/92 10:47	0	0
2/26/92 10:51	0	0
2/26/92 10:59	0	0
2/26/92 11:20	0	0
2/26/92 11:26	0	0
2/26/92 12:20	0	0
2/26/92 12:28	0	0
2/26/92 13:26	0	0
2/26/92 13:38	0	0
2/26/92 15:20	0	0
2/26/92 15:25	0	0
2/26/92 19:30	0	0
2/26/92 19:50	0	0
2/26/92 20:30	0	0
2/26/92 23:20	1	0
2/26/92 23:25	1	0
2/27/92 3:20	1	0
2/27/92 3:23	1	0
2/27/92 7:20	1	0
2/27/92 7:23	1	0
2/27/92 11:22	1	0
2/27/92 11:27	1	0
2/27/92 15:22	1	0
2/27/92 15:26	1	0
2/27/92 17:20	1	0
2/27/92 18:10	1	0
2/28/92 6:20	2	0
2/28/92 6:23	2	0
2/28/92 12:15	2	0
2/28/92 18:20	2	0
2/28/92 18:20	2	0
2/29/92 7:05	3	0
2/29/92 7:10	3	0
2/29/92 19:10	3	0
2/29/92 19:15	3	0
3/1/92 3:05	4	0
3/1/92 3:12	4	0
3/1/92 15:00	4	0
3/1/92 15:05	4	0
3/2/92 7:45	5	0
3/2/92 7:50	5	0
3/2/92 19:00	5	0
3/2/92 19:05	5	0

DATE	DAYS	TEMP F	TEMPEXT.XLS
------	------	--------	-------------

3/5/92 23:45	9	72
3/5/92 23:48	9	72
3/6/92 0:45	9	74
3/6/92 2:45	9	74
3/6/92 2:50	9	68
3/6/92 6:45	9	68
3/6/92 10:45	9	70
3/6/92 10:50	9	70
3/6/92 14:45	9	72
3/6/92 14:46	9	72
3/7/92 7:45	10	75
3/7/92 7:50	10	75
3/7/92 16:45	10	87
3/8/92 7:45	11	74
3/8/92 7:50	11	74
3/8/92 16:45	11	97
3/9/92 7:45	12	74
3/9/92 7:50	12	74
3/9/92 16:45	12	90
3/9/92 16:45	12	90
3/10/92 7:45	13	72
3/10/92 7:50	13	72
3/10/92 10:00	13	72
3/10/92 16:45	13	72
3/11/92 7:45	14	50
3/11/92 7:50	14	50
3/11/92 16:45	14	62
3/12/92 7:45	15	56
3/12/92 7:50	15	56
3/12/92 7:50	15	56
3/12/92 15:45	15	72
3/13/92 7:45	16	54
3/13/92 7:50	16	54
3/13/92 16:45	16	65
3/14/92 7:45	17	58
3/14/92 7:50	17	58
3/14/92 15:45	17	74
3/15/92 7:30	18	61
3/15/92 7:35	18	61
3/15/92 16:15	18	118
3/16/92 7:35	19	113
3/16/92 7:40	19	113
3/16/92 7:40	19	113
3/16/92 15:50	19	129
3/17/92 7:50	20	114
3/17/92 7:55	20	114
3/17/92 16:30	20	136
3/18/92 7:50	21	121
3/18/92 7:55	21	121
3/18/92 17:00	21	128
3/19/92 7:45	22	119
3/19/92 7:50	22	119

DATE	DAYS	TEMP F	TEMPEXT.XLS
3/19/92 14:30	22	130	
3/20/92 8:00	23	115	
3/20/92 8:05	23	115	
3/20/92 17:00	23	120	
3/21/92 7:45	24	117	
3/21/92 7:50	24	117	
3/21/92 7:50	24	117	
3/21/92 16:00	24	132	
3/22/92 7:40	25	118	
3/22/92 7:45	25	118	
3/22/92 15:45	25	126	
3/23/92 7:45	26	118	
3/23/92 7:50	26	118	
3/23/92 15:00	26	128	
3/24/92 8:00	27	114	
3/24/92 8:00	27	114	
3/24/92 8:05	27	114	
3/24/92 16:45	27	132	
3/25/92 8:00	28	119	
3/25/92 8:05	28	119	
3/25/92 16:30	28	118	
3/26/92 7:00	29	121	
3/26/92 7:05	29	121	
3/26/92 16:00	29	126	
3/27/92 8:00	30	123	
3/27/92 8:05	30	123	
3/27/92 17:00	30	123	
3/28/92 6:55	31	116	
3/28/92 7:00	31	116	
3/28/92 14:00	31	132	
3/29/92 6:50	32	119	
3/29/92 6:55	32	119	
3/29/92 14:55	32	133	
4/2/92 15:00	36	123	
4/2/92 15:01	36	123	
4/2/92 15:05	36	123	
4/2/92 17:00	36	120	
4/2/92 17:05	36	120	
4/2/92 19:00	36	118	
4/3/92 8:00	37	116	
4/3/92 8:05	37	116	
4/3/92 16:05	37	130	
4/4/92 6:45	38	119	
4/4/92 6:50	38	119	
4/5/92 8:00	39	115	
4/5/92 8:05	39	115	
4/5/92 15:00	39	130	
4/5/92 15:00	39	130	
4/6/92 9:00	40	120	
4/6/92 9:05	40	120	
4/6/92 16:00	40	132	
4/7/92 9:00	41	120	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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4/7/92 9:05	41	120
4/7/92 16:00	41	130
4/8/92 8:55	42	131
4/8/92 9:00	42	131
4/8/92 16:00	42	152
4/9/92 7:00	43	135
4/9/92 7:00	43	135
4/9/92 7:05	43	135
4/9/92 16:00	43	158
4/10/92 7:00	44	140
4/10/92 7:05	44	140
4/10/92 15:00	44	158
4/10/92 15:00	44	158
4/11/92 7:00	45	135
4/11/92 7:05	45	135
4/11/92 13:00	45	147
4/12/92 7:00	46	139
4/12/92 7:05	46	139
4/12/92 13:55	46	151
4/13/92 8:00	47	138
4/13/92 8:05	47	138
4/13/92 16:00	47	152
4/14/92 8:00	48	135
4/14/92 8:00	48	135
4/14/92 8:05	48	135
4/14/92 16:00	48	150
4/15/92 8:00	49	132
4/15/92 8:05	49	132
4/15/92 15:00	49	156
4/16/92 7:00	50	158
4/16/92 7:05	50	158
4/16/92 15:55	50	150
4/17/92 8:00	51	132
4/17/92 8:05	51	132
4/17/92 14:00	51	151
4/18/92 7:00	52	132
4/18/92 7:05	52	132
4/18/92 13:00	52	150
4/19/92 7:00	53	136
4/19/92 7:00	53	136
4/19/92 7:05	53	136
4/19/92 14:05	53	149
4/20/92 7:00	54	137
4/20/92 7:05	54	137
4/20/92 9:00	54	137
4/20/92 16:00	54	141
4/21/92 9:00	55	136
4/21/92 9:05	55	136
4/21/92 16:00	55	144
4/22/92 8:00	56	136
4/22/92 8:00	56	136
4/22/92 8:05	56	136

DATE	DAYS	TEMP F	TEMPEXT.XLS
4/22/92 16:00	56	157	
4/23/92 9:00	57	147	
4/23/92 9:05	57	147	
4/23/92 16:00	57	161	
4/23/92 16:05	57	161	
4/24/92 9:00	58	150	
4/24/92 9:00	58	150	
4/24/92 9:05	58	150	
4/24/92 14:00	58	161	
4/26/92 8:00	60	120	
4/26/92 8:05	60	120	
4/26/92 14:00	60	123	
4/27/92 8:00	61	116	
4/27/92 8:00	61	116	
4/27/92 8:05	61	116	
4/27/92 8:05	61	116	
4/27/92 15:00	61	126	
4/27/92 15:00	61	126	
4/28/92 8:00	62	115	
4/28/92 8:00	62	115	
4/28/92 8:05	62	115	
4/28/92 8:05	62	115	
4/28/92 8:05	62	115	
4/28/92 8:05	62	115	
4/28/92 15:00	62	124	
4/28/92 15:00	62	124	
4/29/92 8:00	63	118	
4/29/92 8:00	63	118	
4/29/92 8:05	63	118	
4/29/92 8:05	63	118	
4/29/92 15:00	63	132	
4/29/92 15:00	63	132	
4/30/92 8:00	64	119	
4/30/92 8:00	64	119	
4/30/92 8:05	64	119	
4/30/92 8:05	64	119	
4/30/92 16:00	64	138	
4/30/92 16:00	64	138	
5/1/92 8:00	65	121	
5/1/92 8:00	65	121	
5/1/92 8:05	65	121	
5/1/92 8:05	65	121	
5/1/92 15:00	65	140	
5/1/92 15:00	65	140	
5/2/92 8:00	66	122	
5/2/92 8:00	66	122	
5/2/92 8:05	66	122	
5/2/92 8:05	66	122	
5/3/92 8:00	67	124	
5/3/92 8:00	67	124	
5/3/92 8:00	67	124	
5/3/92 8:05	67	124	

DATE	DAYS	TEMP F	TEMPEXT.XLS
5/3/92 8:05	67	124	
5/4/92 8:00	68	124	
5/4/92 8:00	68	124	
5/4/92 8:05	68	124	
5/4/92 8:05	68	124	
5/4/92 8:05	68	124	
5/4/92 15:00	68	140	
5/4/92 15:00	68	140	
5/5/92 8:00	69	124	
5/5/92 8:00	69	124	
5/5/92 8:05	69	124	
5/5/92 8:05	69	124	
5/5/92 15:00	69	140	
5/5/92 15:00	69	140	
5/6/92 8:00	70	118	
5/6/92 8:00	70	118	
5/6/92 8:00	70	118	
5/6/92 8:05	70	118	
5/6/92 8:05	70	118	
5/6/92 16:00	70	114	
5/6/92 16:00	70	114	
5/7/92 7:00	71	112	
5/7/92 7:00	71	112	
5/7/92 7:05	71	112	
5/7/92 7:05	71	112	
5/7/92 15:00	71	116	
5/7/92 15:00	71	116	
5/8/92 7:00	72	120	
5/8/92 7:00	72	120	
5/8/92 7:00	72	120	
5/8/92 7:00	72	120	
5/8/92 7:05	72	120	
5/8/92 7:05	72	120	
5/8/92 13:00	72	120	
5/8/92 13:00	72	120	
5/8/92 13:00	72	120	
5/9/92 8:00	73	120	
5/9/92 8:00	73	120	
5/9/92 8:05	73	120	
5/9/92 8:05	73	120	
5/10/92 8:00	74	123	
5/10/92 8:00	74	123	
5/10/92 8:05	74	123	
5/10/92 8:05	74	123	
5/11/92 8:00	75	128	
5/11/92 8:00	75	128	
5/11/92 8:05	75	128	
5/11/92 8:05	75	128	
5/11/92 14:00	75	144	
5/11/92 14:00	75	144	
5/11/92 14:00	75	144	
5/12/92 8:00	76	126	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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5/12/92 8:00	76	126
5/12/92 8:05	76	126
5/12/92 8:05	76	126
5/12/92 14:00	76	139
5/12/92 14:00	76	139
5/12/92 14:00	76	139
5/13/92 8:00	77	126
5/13/92 8:00	77	126
5/13/92 8:05	77	126
5/13/92 8:05	77	126
5/13/92 14:00	77	129
5/13/92 14:00	77	129
5/14/92 7:00	78	122
5/14/92 7:00	78	122
5/14/92 7:05	78	122
5/14/92 7:05	78	122
5/14/92 15:00	78	144
5/14/92 15:00	78	144
5/14/92 15:00	78	144
5/15/92 7:00	79	127
5/15/92 7:00	79	127
5/15/92 7:05	79	127
5/15/92 7:05	79	127
5/15/92 14:00	79	143
5/15/92 14:00	79	143
5/16/92 10:00	80	131
5/16/92 10:00	80	131
5/16/92 10:00	80	131
5/16/92 10:05	80	131
5/16/92 10:05	80	131
5/17/92 8:00	81	128
5/17/92 8:00	81	128
5/17/92 8:05	81	128
5/17/92 8:05	81	128
5/18/92 17:05	82	148
5/18/92 17:05	82	148
5/18/92 17:10	82	148
5/18/92 17:10	82	148
5/19/92 8:00	83	132
5/19/92 8:00	83	132
5/19/92 8:05	83	132
5/19/92 8:05	83	132
5/19/92 15:00	83	140
5/19/92 15:00	83	140
5/19/92 15:00	83	140
5/20/92 8:00	84	122
5/20/92 8:00	84	122
5/20/92 8:05	84	122
5/20/92 8:05	84	122
5/20/92 8:05	84	122
5/20/92 15:00	84	142
5/20/92 15:00	84	142

DATE

DAYS

TEMP F

TEMPEXT.XLS

5/21/92 8:00	85	122
5/21/92 8:00	85	122
5/21/92 7:55	85	122
5/21/92 7:55	85	122
5/21/92 14:30	85	141
5/21/92 14:30	85	141
5/21/92 14:30	85	141
5/22/92 7:05	86	121
5/22/92 7:05	86	121
5/22/92 7:00	86	121
5/22/92 7:00	86	121
5/22/92 7:00	86	121
5/22/92 13:05	86	146
5/22/92 13:05	86	146
5/22/92 13:05	86	146
5/23/92 8:00	87	124
5/23/92 8:00	87	124
5/23/92 8:05	87	124
5/23/92 8:05	87	124
5/24/92 8:00	88	126
5/24/92 8:00	88	126
5/24/92 8:05	88	126
5/24/92 8:05	88	126
5/25/92 8:00	89	128
5/25/92 8:00	89	128
5/25/92 8:00	89	128
5/25/92 8:05	89	128
5/25/92 8:05	89	128
5/25/92 17:00	89	145
5/25/92 17:00	89	145
5/26/92 8:00	90	128
5/26/92 8:00	90	128
5/26/92 8:05	90	128
5/26/92 8:05	90	128
5/26/92 14:00	90	142
5/26/92 14:00	90	142
5/26/92 14:00	90	142
5/27/92 8:00	91	120
5/27/92 8:00	91	120
5/27/92 8:05	91	120
5/27/92 8:05	91	120
5/27/92 13:00	91	136
5/27/92 13:00	91	136
5/28/92 8:00	92	123
5/28/92 8:00	92	123
5/28/92 8:05	92	123
5/28/92 8:05	92	123
5/28/92 8:05	92	123
5/28/92 16:00	92	128
5/28/92 16:00	92	128
5/28/92 16:00	92	128
5/29/92 6:05	93	124

DATE	DAYS	TEMP F	TEMPEXT.XLS
5/29/92 8:05	93	124	
5/29/92 8:10	93	124	
5/29/92 8:10	93	124	
5/29/92 12:00	93	129	
5/29/92 12:00	93	129	
5/29/92 12:00	93	129	
5/30/92 8:00	94	128	
5/30/92 8:00	94	128	
5/30/92 8:05	94	128	
5/30/92 8:05	94	128	
5/31/92 10:00	95	138	
5/31/92 10:00	95	138	
5/31/92 10:05	95	138	
5/31/92 10:05	95	138	
6/1/92 8:00	96	123	
6/1/92 8:00	96	123	
6/1/92 8:05	96	123	
6/1/92 8:05	96	123	
6/1/92 14:00	96	142	
6/1/92 14:00	96	142	
6/2/92 8:00	97	128	
6/2/92 8:00	97	128	
6/2/92 8:05	97	128	
6/2/92 8:05	97	128	
6/2/92 8:05	97	128	
6/2/92 14:00	97	144	
6/2/92 14:00	97	144	
6/2/92 14:00	97	144	
6/3/92 8:00	98	128	
6/3/92 8:00	98	128	
6/3/92 8:05	98	128	
6/3/92 8:05	98	128	
6/3/92 14:00	98	132	
6/3/92 14:00	98	132	
6/4/92 8:00	99	128	
6/4/92 8:00	99	128	
6/4/92 8:05	99	128	
6/4/92 8:05	99	128	
6/4/92 14:00	99	141	
6/4/92 14:00	99	141	
6/4/92 14:00	99	141	
6/5/92 8:00	100	128	
6/5/92 8:00	100	128	
6/5/92 8:05	100	128	
6/5/92 8:05	100	128	
6/6/92 16:00	101	140	
6/6/92 16:00	101	140	
6/6/92 16:00	101	140	
6/6/92 16:05	101	140	
6/6/92 16:05	101	140	
6/7/92 11:00	102	148	
6/7/92 11:00	102	148	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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6/7/92 11:05	102	148
6/7/92 11:05	102	148
6/8/92 8:00	103	134
6/8/92 8:00	103	134
6/8/92 8:05	103	134
6/8/92 8:05	103	134
6/10/92 8:00	105	130
6/10/92 8:00	105	130
6/10/92 8:00	105	130
6/10/92 8:05	105	130
6/10/92 8:05	105	130
6/10/92 14:00	105	146
6/10/92 14:00	105	146
6/11/92 8:00	106	130
6/11/92 8:00	106	130
6/11/92 8:05	106	130
6/11/92 8:05	106	130
6/11/92 8:05	106	130
6/11/92 14:00	106	142
6/11/92 14:00	106	142
6/11/92 14:00	106	142
6/12/92 8:00	107	121
6/12/92 8:00	107	121
6/12/92 8:00	107	121
6/12/92 8:00	107	121
6/12/92 8:00	107	121
6/12/92 12:00	107	118
6/12/92 12:00	107	118
6/13/92 12:00	108	130
6/13/92 12:00	108	130
6/13/92 12:00	108	130
6/13/92 12:00	108	130
6/13/92 12:00	108	130
6/13/92 12:00	108	130
6/14/92 13:00	109	136
6/14/92 13:00	109	136
6/14/92 13:00	109	136
6/14/92 13:00	109	136
6/15/92 9:30	110	135
6/15/92 9:30	110	135
6/15/92 9:35	#VALUE!	135
6/15/92 9:35	#VALUE!	135
6/15/92 15:00	110	142
6/15/92 15:00	110	142
6/16/92 8:00	111	134
6/16/92 8:00	111	134
6/16/92 8:05	111	134
6/16/92 8:05	111	134
6/16/92 14:00	111	149
6/16/92 14:00	111	149
6/17/92 8:00	112	130
6/17/92 8:00	112	130

DATE	DAYS	TEMP F	TEMPEXT.XLS
6/17/92 8:00	112	130	
6/17/92 8:00	112	130	
6/17/92 8:05	112	130	
6/17/92 8:05	112	130	
6/17/92 13:00	112	147	
6/17/92 13:00	112	147	
6/18/92 8:00	113	130	
6/18/92 8:00	113	130	
6/18/92 8:05	113	130	
6/18/92 8:05	113	130	
6/18/92 16:25	113	147	
6/18/92 16:25	113	147	
6/19/92 9:08	114	140	
6/19/92 9:08	114	140	
6/19/92 9:08	114	140	
6/19/92 9:21	114	140	
6/19/92 9:21	114	140	
6/19/92 12:15	114	146	
6/19/92 12:15	114	146	
6/23/92 8:30	118	131	
6/23/92 8:30	118	131	
6/23/92 8:30	118	131	
6/23/92 8:30	118	131	
6/23/92 13:30	118	143	
6/23/92 13:30	118	143	
6/24/92 8:00	119	130	
6/24/92 8:00	119	130	
6/24/92 8:00	119	130	
6/24/92 8:00	119	130	
6/24/92 8:00	119	130	
6/24/92 8:00	119	130	
6/24/92 12:00	119	143	
6/24/92 12:00	119	143	
6/25/92 8:00	120	134	
6/25/92 8:00	120	134	
6/25/92 8:00	120	134	
6/25/92 8:00	120	134	
6/25/92 12:30	120	152	
6/25/92 12:30	120	152	
6/26/92 8:30	121	136	
6/26/92 8:30	121	136	
6/26/92 8:30	121	136	
6/26/92 8:30	121	136	
6/26/92 8:30	121	136	
6/26/92 13:00	121	151	
6/26/92 13:00	121	151	
6/27/92 11:30	122	142	
6/27/92 11:30	122	142	
6/27/92 11:30	122	142	
6/27/92 11:30	122	142	
6/27/92 11:30	122	142	
6/28/92 11:30	123	148	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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6/28/92 11:30	123	148
6/28/92 11:30	123	148
6/28/92 11:30	123	148
6/28/92 11:30	123	148
6/29/92 7:30	124	136
6/29/92 7:30	124	136
6/29/92 7:35	124	136
6/29/92 7:35	124	136
6/29/92 13:00	124	148
6/29/92 13:00	124	148
6/30/92 9:00	125	140
6/30/92 9:00	125	140
6/30/92 9:05	125	140
6/30/92 9:05	125	140
6/30/92 14:00	125	152
6/30/92 14:00	125	152
7/1/92 9:30	126	132
7/1/92 9:30	126	132
7/1/92 9:30	126	132
7/1/92 9:35	126	132
7/1/92 9:35	126	132
7/1/92 14:00	126	147
7/1/92 14:00	126	147
7/1/92 14:00	126	147
7/2/92 8:00	127	127
7/2/92 8:00	127	127
7/2/92 8:05	127	127
7/2/92 8:05	127	127
7/2/92 13:30	127	134
7/2/92 13:30	127	134
7/3/92 8:00	128	136
7/3/92 8:00	128	136
7/3/92 8:00	128	136
7/3/92 8:05	128	136
7/3/92 8:05	128	136
7/3/92 12:00	128	144
7/3/92 12:00	128	144
7/3/92 12:00	128	144
7/4/92 11:00	129	148
7/4/92 11:00	129	148
7/4/92 11:05	129	148
7/4/92 11:05	129	148
7/5/92 11:00	130	149
7/5/92 11:00	130	149
7/5/92 11:05	130	149
7/5/92 11:05	130	149
7/6/92 9:00	131	135
7/6/92 9:00	131	135
7/6/92 9:05	131	135
7/6/92 9:05	131	135
7/6/92 15:00	131	148

DATE	DAYS	TEMP F	TEMPEXT.XLS
7/6/92 15:00	131	148	
7/6/92 15:00	131	148	
7/7/92 9:30	132	147	
7/7/92 9:30	132	147	
7/7/92 9:35	132	147	
7/7/92 9:35	132	147	
7/7/92 13:30	#VALUE!	153	
7/7/92 13:30	#VALUE!	153	
7/8/92 8:00	133	142	
7/8/92 8:00	133	142	
7/8/92 8:05	133	142	
7/8/92 8:05	133	142	
7/8/92 15:00	133	152	
7/8/92 15:00	133	152	
7/9/92 9:00	134	140	
7/9/92 9:00	134	140	
7/9/92 9:05	134	140	
7/9/92 9:05	134	140	
7/9/92 14:00	134	150	
7/9/92 14:00	134	150	
7/10/92 10:00	135	146	
7/10/92 10:00	135	146	
7/10/92 10:05	135	146	
7/10/92 10:05	135	146	
7/10/92 13:00	135	153	
7/10/92 13:00	135	153	
7/11/92 9:30	136	146	
7/11/92 9:30	136	146	
7/11/92 9:35	136	146	
7/11/92 9:35	136	146	
7/11/92 9:35	136	146	
7/12/92 10:15	137	149	
7/12/92 10:15	137	149	
7/12/92 10:24	137	149	
7/12/92 10:24	137	149	
7/13/92 8:40	138	136	
7/13/92 8:40	138	136	
7/13/92 8:43	138	136	
7/13/92 8:43	138	136	
7/13/92 13:35	138	152	
7/13/92 13:35	138	152	
7/14/92 8:40	139	148	
7/14/92 8:40	139	148	
7/14/92 8:43	139	148	
7/14/92 8:43	139	148	
7/14/92 13:25	139	151	
7/14/92 13:25	139	151	
7/15/92 8:11	140	141	
7/15/92 8:11	140	141	
7/15/92 8:11	140	141	
7/15/92 8:15	140	141	
7/15/92 8:15	140	141	

DATE	DAYS	TEMP F	TEMPEXT.XLS
7/15/92 8:15	140	141	
7/15/92 13:31	140	150	
7/15/92 13:31	140	150	
7/16/92 8:10	141	133	
7/16/92 8:10	141	133	
7/16/92 8:14	141	133	
7/16/92 8:14	141	133	
7/16/92 13:58	141	145	
7/16/92 13:58	141	145	
7/17/92 9:45	142	137	
7/17/92 9:45	142	137	
7/17/92 9:45	142	137	
7/17/92 9:50	142	137	
7/17/92 9:50	142	137	
7/17/92 13:29	142	148	
7/17/92 13:29	142	148	
7/18/92 8:05	143	136	
7/18/92 8:05	143	136	
7/18/92 8:10	143	136	
7/18/92 8:10	143	136	
7/19/91 8:02	-222	132	
7/19/91 8:02	-222	132	
7/19/92 8:10	144	132	
7/19/92 8:10	144	132	
7/20/92 7:45	145	135	
7/20/92 7:45	145	135	
7/20/92 7:51	145	135	
7/20/92 7:51	145	135	
7/20/92 7:51	145	135	
7/20/92 13:00	145	149	
7/20/92 13:00	145	149	
7/21/92 9:10	146	142	
7/21/92 9:10	146	142	
7/21/92 9:15	146	142	
7/21/92 9:15	146	142	
7/21/92 13:30	146	138	
7/21/92 13:30	146	138	
7/21/92 13:30	146	138	
7/22/92 8:39	147	134	
7/22/92 8:39	147	134	
7/22/92 8:44	147	134	
7/22/92 8:44	147	134	
7/22/92 13:35	147	148	
7/22/92 13:35	147	148	
7/23/92 8:02	148	130	
7/23/92 8:02	148	130	
7/23/92 8:07	148	130	
7/23/92 8:07	148	130	
7/23/92 13:30	148	122	
7/23/92 13:30	148	122	
7/24/92 7:50	149	135	
7/24/92 7:50	149	135	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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7/24/92 7:55	149	135
7/24/92 7:55	149	135
7/24/92 13:00	149	145
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7/25/92 8:10	150	136
7/25/92 8:10	150	136
7/25/92 8:15	150	136
7/25/92 8:15	150	136
7/26/92 9:30	151	144
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7/27/92 8:00	152	138
7/27/92 8:00	152	138
7/27/92 8:00	152	138
7/27/92 8:05	152	138
7/27/92 8:05	152	138
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7/28/92 12:00	153	150
7/28/92 12:00	153	150
7/29/92 9:00	154	143
7/29/92 9:00	154	143
7/29/92 9:00	154	143
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7/29/92 9:05	154	143
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7/30/92 7:05	155	136
7/30/92 7:05	155	136
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7/31/92 9:00	156	142
7/31/92 9:00	156	142
7/31/92 9:05	156	142
7/31/92 9:05	156	142
7/31/92 12:00	156	152
7/31/92 12:00	156	152
8/6/92 8:00	162	130
8/6/92 8:00	162	130
8/6/92 8:05	162	130
8/6/92 8:05	162	130
8/6/92 12:00	162	135

DATE	DAYS	TEMP F	TEMPEXT.XLS
8/6/92 12:00	162	135	
8/7/92 8:20	163	130	
8/7/92 8:20	163	130	
8/7/92 8:25	163	130	
8/7/92 8:25	163	130	
8/7/92 13:22	163	142	
8/7/92 13:22	163	142	
8/8/92 9:30	164	136	
8/8/92 9:30	164	136	
8/8/92 9:35	164	136	
8/8/92 9:35	164	136	
8/9/92 8:00	165	134	
8/9/92 8:00	165	134	
8/9/92 8:05	165	134	
8/9/92 8:05	165	134	
8/10/92 7:35	166	130	
8/10/92 7:35	166	130	
8/10/92 7:35	166	130	
8/10/92 7:40	166	130	
8/10/92 7:40	166	130	
8/10/92 13:20	166	154	
8/10/92 13:20	166	154	
8/11/92 8:00	167	135	
8/11/92 8:00	167	135	
8/11/92 8:00	167	135	
8/11/92 8:05	167	135	
8/11/92 8:05	167	135	
8/11/92 13:00	167	154	
8/11/92 13:00	167	154	
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8/12/92 7:50	168	134	
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8/12/92 12:26	168	152	
8/12/92 12:26	168	152	
8/12/92 12:26	168	152	
8/13/92 8:20	169	136	
8/13/92 8:20	169	136	
8/13/92 8:25	169	136	
8/13/92 8:25	169	136	
8/13/92 15:00	169	146	
8/13/92 15:00	169	146	
8/14/92 8:15	170	134	
8/14/92 8:15	170	134	
8/14/92 8:20	170	134	
8/14/92 8:20	170	134	
8/14/92 13:00	170	133	
8/14/92 13:00	170	133	
8/14/92 13:00	170	133	
8/15/92 8:20	171	132	
8/15/92 8:20	171	132	
8/15/92 8:25	171	132	

DATE	DAYS	TEMP F	TEMPEXT.XLS
8/15/92 8:25	171	132	
8/16/92 8:15	172	132	
8/16/92 8:15	172	132	
8/16/92 8:20	172	132	
8/16/92 8:20	172	132	
8/17/92 9:00	173	133	
8/17/92 9:00	173	133	
8/17/92 9:00	173	133	
8/17/92 9:00	173	133	
8/17/92 9:05	173	133	
8/17/92 9:05	173	133	
8/17/92 14:30	173	142	
8/17/92 14:30	173	142	
8/18/92 8:25	174	133	
8/18/92 8:25	174	133	
8/18/92 8:30	174	133	
8/18/92 8:30	174	133	
8/18/92 14:00	174	148	
8/18/92 14:00	174	148	
8/19/92 8:10	175	134	
8/19/92 8:10	175	134	
8/20/92 17:00	176	135	
8/20/92 17:00	176	135	
8/20/92 17:05	176	135	
8/20/92 17:05	176	135	
8/20/92 17:05	176	135	
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8/21/92 8:00	177	130	
8/21/92 8:00	177	130	
8/21/92 8:05	177	130	
8/21/92 8:05	177	130	
8/21/92 13:30	177	141	
8/21/92 13:30	177	141	
8/22/92 9:30	178	130	
8/22/92 9:30	178	130	
8/22/92 9:35	178	130	
8/22/92 9:35	178	130	
8/22/92 9:35	178	130	
8/23/92 10:00	179	133	
8/23/92 10:00	179	133	
8/23/92 10:05	179	133	
8/23/92 10:05	179	133	
8/24/92 8:16	180	134	
8/24/92 8:16	180	134	
8/24/92 8:21	180	134	
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8/24/92 8:21	180	134	
8/24/92 13:30	180	146	
8/24/92 13:30	180	146	
8/25/92 8:50	181	133	
8/25/92 8:50	181	133	
8/25/92 9:00	181	133	

DATE	DAYS	TEMP F	TEMPEXT.XLS
8/25/92 9:00	181	133	
8/25/92 14:00	181	148	
8/25/92 14:00	181	148	
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8/26/92 8:35	182	134	
8/26/92 8:35	182	134	
8/26/92 8:35	182	134	
8/26/92 13:30	182	146	
8/26/92 13:30	182	146	
8/27/92 8:00	183	132	
8/27/92 8:00	183	132	
8/27/92 8:05	183	132	
8/27/92 8:05	183	132	
8/27/92 13:30	183	145	
8/27/92 13:30	183	145	
8/27/92 13:30	183	145	
8/28/92 8:30	184	128	
8/28/92 8:30	184	128	
8/28/92 8:35	184	128	
8/28/92 8:35	184	128	
8/28/92 13:00	184	136	
8/28/92 13:00	184	136	
8/28/92 13:00	184	136	
8/29/92 9:00	185	132	
8/29/92 9:00	185	132	
8/29/92 9:05	185	132	
8/29/92 9:05	185	132	
8/30/92 9:00	186	132	
8/30/92 9:00	186	132	
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8/31/92 8:30	187	132	
8/31/92 8:30	187	132	
8/31/92 8:35	187	132	
8/31/92 8:35	187	132	
8/31/92 13:00	187	148	
8/31/92 13:00	187	148	
9/1/92 21:25	188	129	
9/1/92 21:25	188	129	
9/1/92 21:30	188	129	
9/1/92 21:30	188	129	
9/2/92 9:31	189	134	
9/2/92 9:31	189	134	
9/2/92 9:31	189	134	
9/2/92 9:31	189	134	
9/2/91 9:36	-177	134	
9/2/91 9:36	-177	134	
9/2/91 13:30	-177	143	
9/2/91 13:30	-177	143	
9/3/92 8:00	190	128	
9/3/92 8:00	190	128	

DATE	DAYS	TEMP F	TEMPEXT.XLS
9/3/92 8:05	190	128	
9/3/92 8:05	190	128	
9/3/92 13:40	190	142	
9/3/92 13:40	190	142	
9/4/92 8:30	191	132	
9/4/92 8:30	191	132	
9/4/92 8:35	191	132	
9/4/92 8:35	191	132	
9/4/92 12:00	191	149	
9/4/92 12:00	191	149	
9/5/92 13:00	192	124	
9/5/92 13:00	192	124	
9/5/92 13:00	192	124	
9/5/92 13:05	192	124	
9/5/92 13:05	192	124	
9/6/92 9:55	193	131	
9/6/92 9:55	193	131	
9/6/92 9:55	193	131	
9/6/92 10:00	193	131	
9/6/92 10:00	193	131	
9/7/92 10:00	194	140	
9/7/92 10:00	194	140	
9/7/92 10:05	194	140	
9/7/92 10:05	194	140	
9/7/92 12:30	194	139	
9/7/92 12:30	194	139	
9/8/92 8:55	195	135	
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9/8/92 9:00	195	135	
9/8/92 9:00	195	135	
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9/8/92 12:55	195	144	
9/9/92 8:55	196	134	
9/9/92 8:55	196	134	
9/9/92 9:00	196	134	
9/9/92 9:00	196	134	
9/9/92 12:00	196	144	
9/9/92 12:00	196	144	
9/9/92 12:00	196	144	
9/10/92 8:00	197	131	
9/10/92 8:00	197	131	
9/10/92 8:05	197	131	
9/10/92 8:05	197	131	
9/10/92 12:00	197	145	
9/10/92 12:00	197	145	
9/10/92 12:00	197	145	
9/11/92 8:00	198	133	
9/11/92 8:00	198	133	
9/11/92 8:05	198	133	
9/11/92 8:05	198	133	
9/11/92 12:00	198	146	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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9/11/92 12:00	198	146
9/11/92 12:00	198	146
9/12/92 9:00	199	130
9/12/92 9:00	199	130
9/12/92 9:05	199	130
9/12/92 9:05	199	130
9/13/92 9:00	200	134
9/13/92 9:00	200	134
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9/13/92 9:05	200	134
9/14/92 9:00	201	126
9/14/92 9:00	201	126
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9/14/92 9:05	201	126
9/14/92 9:05	201	126
9/14/92 9:05	201	126
9/14/92 16:05	201	144
9/14/92 16:05	201	144
9/15/92 9:00	202	126
9/15/92 9:00	202	126
9/15/92 9:05	202	126
9/15/92 9:05	202	126
9/15/92 13:00	202	141
9/15/92 13:00	202	141
9/16/92 9:40	203	136
9/16/92 9:40	203	136
9/16/92 9:45	203	136
9/16/92 9:45	203	136
9/16/92 13:45	203	146
9/16/92 13:45	203	146
9/16/92 13:45	203	146
9/17/92 8:30	204	132
9/17/92 8:30	204	132
9/17/92 8:30	204	132
9/17/92 8:35	204	132
9/17/92 8:35	204	132
9/17/92 14:00	204	147
9/17/92 14:00	204	147
9/18/92 9:00	205	133
9/18/92 9:00	205	133
9/18/92 9:05	205	133
9/18/92 9:05	205	133
9/18/92 9:05	205	133
9/18/92 13:30	205	149
9/18/92 13:30	205	149
9/19/92 9:00	206	135
9/19/92 9:00	206	135
9/19/92 9:05	206	135
9/19/92 9:05	206	135
9/19/92 9:05	206	135
9/20/92 10:30	207	144
9/20/92 10:30	207	144

DATE	DAYS	TEMP F	TEMPEXT.XLS
9/20/90 10:35	-524	144	
9/20/90 10:35	-524	144	
9/21/92 10:00	208	140	
9/21/92 10:00	208	140	
9/21/92 10:05	208	140	
9/21/92 10:05	208	140	
9/21/92 14:00	208	143	
9/21/92 14:00	208	143	
9/22/92 8:30	209	134	
9/22/92 8:30	209	134	
9/22/92 8:30	209	134	
9/22/92 8:35	209	134	
9/22/92 8:35	209	134	
9/22/92 8:35	209	134	
9/22/92 13:00	209	150	
9/22/92 13:00	209	150	
9/23/92 8:30	210	136	
9/23/92 8:30	210	136	
9/23/92 8:35	210	136	
9/23/92 8:35	210	136	
9/23/92 13:00	210	153	
9/23/92 13:00	210	153	
9/24/92 8:15	211	118	
9/24/92 8:15	211	118	
9/24/92 8:20	211	118	
9/24/92 8:20	211	118	
9/24/92 13:00	211	110	
9/24/92 13:00	211	110	
9/24/92 13:00	211	110	
9/27/92 8:30	214	130	
9/27/92 8:30	214	130	
9/27/92 8:35	214	130	
9/27/92 8:35	214	130	
9/28/92 8:00	215	139	
9/28/92 8:00	215	139	
9/28/92 8:05	215	139	
9/28/92 8:05	215	139	
9/28/92 13:00	215	150	
9/28/92 13:00	215	150	
9/29/92 8:30	216	132	
9/29/92 8:30	216	132	
9/29/92 8:30	216	132	
9/29/92 8:35	216	132	
9/29/92 8:35	216	132	
9/29/92 14:30	216	147	
9/29/92 14:30	216	147	
10/1/92 9:30	218	121	
10/1/92 9:30	218	121	
10/1/92 9:35	218	121	
10/1/92 9:35	218	121	
10/1/92 14:00	218	134	
10/1/92 14:00	218	134	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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10/2/92 8:30	219	118
10/2/92 8:30	219	118
10/2/92 8:35	219	118
10/2/92 8:35	219	118
10/2/92 13:00	219	134
10/2/92 13:00	219	134
10/2/92 13:00	219	134
10/3/92 9:30	220	123
10/3/92 9:30	220	123
10/3/92 9:35	220	123
10/3/92 9:35	220	123
10/4/92 8:28	221	130
10/4/92 8:28	221	130
10/4/92 8:28	221	130
10/4/92 8:30	221	130
10/4/92 8:30	221	130
10/5/92 8:30	222	125
10/5/92 8:30	222	125
10/5/92 8:35	222	125
10/5/92 8:35	222	125
10/5/92 13:30	222	121
10/5/92 13:30	222	121
10/6/92 9:00	223	119
10/6/92 9:00	223	119
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10/6/92 13:30	223	134
10/6/92 13:30	223	134
10/7/92 9:00	224	120
10/7/92 9:00	224	120
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10/8/92 9:30	225	123
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10/8/92 9:35	225	123
10/8/92 9:35	225	123
10/8/92 14:00	225	131
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10/9/92 9:00	226	137
10/9/92 9:00	226	137
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10/9/92 13:30	226	145
10/9/92 13:30	226	145
10/10/92 10:30	227	127
10/10/92 10:30	227	127
10/10/92 10:35	227	127
10/10/92 10:35	227	127

DATE	DAYS	TEMP F	TEMPEXT.XLS
10/11/92 9:30	228	115	
10/11/92 9:30	228	115	
10/11/92 9:35	228	115	
10/11/92 9:35	228	115	
10/15/92 10:00	232	132	
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10/15/92 10:05	232	132	
10/15/92 10:05	232	132	
10/15/92 13:00	232	139	
10/15/92 13:00	232	139	
10/15/92 13:00	232	139	
10/15/92 13:00	232	139	
10/16/92 9:00	233	129	
10/16/92 9:00	233	129	
10/16/92 9:05	233	129	
10/16/92 9:05	233	129	
10/16/92 13:00	233	140	
10/16/92 13:00	233	140	
10/17/92 9:23	234	124	
10/17/92 9:23	234	124	
10/17/92 9:27	234	124	
10/17/92 9:27	234	124	
10/18/92 9:30	235	121	
10/18/92 9:30	235	121	
10/18/92 9:35	235	121	
10/18/92 9:35	235	121	
10/19/92 9:30	236	120	
10/19/92 9:30	236	120	
10/19/92 9:30	236	120	
10/19/92 9:35	236	120	
10/19/92 9:35	236	120	
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10/19/92 13:30	236	130	
10/19/92 13:30	236	130	
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10/20/92 9:30	237	120	
10/20/92 9:35	237	120	
10/20/92 9:35	237	120	
10/20/92 13:30	237	134	
10/20/92 13:30	237	134	
10/21/92 9:30	238	128	
10/21/92 9:30	238	128	
10/21/92 9:35	238	128	
10/21/92 9:35	238	128	
10/21/92 13:00	238	141	
10/21/92 13:00	238	141	
10/22/92 9:00	239	127	
10/22/92 9:00	239	127	
10/22/92 9:05	239	127	
10/22/92 9:05	239	127	
10/22/92 9:05	239	127	
10/22/92 12:00	239	141	

DATE	DAYS	TEMP F	TEMPEXT.XLS
10/22/92 12:00	239	141	
10/22/92 12:00	239	141	
10/23/92 9:30	240	126	
10/23/92 9:30	240	126	
10/23/92 9:35	240	126	
10/23/92 9:35	240	126	
10/23/92 14:00	240	140	
10/23/92 14:00	240	140	
10/24/92 10:30	241	131	
10/24/92 10:30	241	131	
10/24/92 10:35	241	131	
10/24/92 10:35	241	131	
10/24/92 17:00	241	142	
10/25/92 9:07	242	134	
10/25/92 9:07	242	134	
10/25/92 9:07	242	134	
10/25/92 9:09	242	134	
10/25/92 9:09	242	134	
10/25/92 15:00	242	135	
10/26/92 9:00	243	136	
10/26/92 9:00	243	136	
10/26/92 9:05	243	136	
10/26/92 9:05	243	136	
10/26/92 15:00	243	147	
10/26/92 15:00	243	147	
10/27/92 9:00	244	140	
10/27/92 9:00	244	140	
10/27/92 9:05	244	140	
10/27/92 9:05	244	140	
10/27/92 9:05	244	140	
10/27/92 14:30	244	150	
10/27/92 14:30	244	150	
10/28/92 9:07	245	138	
10/28/92 9:07	245	138	
10/28/92 9:09	245	138	
10/28/92 9:09	245	138	
10/28/92 13:30	245	147	
10/28/92 13:30	245	147	
10/28/92 13:30	245	147	
10/29/92 9:00	246	142	
10/29/92 9:00	246	142	
10/29/92 9:00	246	142	
10/29/92 9:05	246	142	
10/29/92 9:05	246	142	
10/29/92 13:00	246	148	
10/29/92 13:00	246	148	
10/30/92 10:25	247	146	
10/30/92 10:25	247	146	
10/30/92 10:32	247	146	
10/30/92 10:32	247	146	
10/30/92 18:00	247	140	
10/30/92 18:00	247	140	

DATE	DAYS	TEMP F	TEMPEXT.XLS
10/31/92 11:00	248	141	
10/31/92 11:00	248	141	
10/31/92 11:00	248	141	
10/31/92 11:05	248	141	
10/31/92 11:05	248	141	
11/1/92 14:00	249	147	
11/1/92 14:00	249	147	
11/1/92 14:05	249	147	
11/1/92 14:05	249	147	
11/1/92 14:05	249	147	
11/2/92 10:00	250	139	
11/2/92 10:00	250	139	
11/2/92 10:05	250	139	
11/2/92 10:05	250	139	
11/2/92 15:00	250	138	
11/2/92 15:00	250	138	
11/3/92 9:30	251	140	
11/3/92 9:30	251	140	
11/3/92 9:35	251	140	
11/3/92 9:35	251	140	
11/3/92 17:30	251	141	
11/3/92 17:30	251	141	
11/4/92 9:33	252	140	
11/4/92 9:33	252	140	
11/4/92 9:33	252	140	
11/4/92 9:36	252	140	
11/4/92 9:36	252	140	
11/4/92 14:00	252	144	
11/4/92 14:00	252	144	
11/5/92 9:30	253	136	
11/5/92 9:30	253	136	
11/5/92 9:30	253	136	
11/5/92 9:35	253	136	
11/5/92 9:35	253	136	
11/5/92 13:00	253	146	
11/5/92 13:00	253	146	
11/6/92 9:30	254	137	
11/6/92 9:30	254	137	
11/6/92 9:30	254	137	
11/6/92 9:35	254	137	
11/6/92 9:35	254	137	
11/6/92 14:00	254	146	
11/6/92 14:00	254	146	
11/7/92 9:30	255	132	
11/7/92 9:30	255	132	
11/7/92 9:35	255	132	
11/7/92 9:35	255	132	
11/8/92 10:30	256	140	
11/8/92 10:30	256	140	
11/8/92 10:30	256	140	
11/8/92 10:30	256	140	
11/8/92 10:33	256	140	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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11/9/92 9:30	257	130
11/9/92 9:30	257	130
11/9/92 9:35	257	130
11/9/92 9:35	257	130
11/9/92 13:30	257	141
11/9/92 13:30	257	141
11/10/92 10:00	258	133
11/10/92 10:00	258	133
11/10/92 10:05	258	133
11/10/92 10:05	258	133
11/10/92 14:00	258	137
11/10/92 14:00	258	137
11/11/92 19:32	259	135
11/11/92 19:32	259	135
11/11/92 19:34	259	135
11/11/92 19:34	259	135
11/12/92 9:30	260	130
11/12/92 9:30	260	130
11/12/92 9:30	260	130
11/12/92 9:30	260	130
11/12/92 9:35	260	130
11/12/92 9:35	260	130
11/12/92 13:00	260	138
11/12/92 13:00	260	138
11/13/92 9:30	261	140
11/13/92 9:30	261	140
11/13/92 9:35	261	140
11/13/92 9:35	261	140
11/13/92 13:00	261	145
11/13/92 13:00	261	145
11/14/92 15:00	262	148
11/14/92 15:00	262	148
11/14/92 15:05	262	148
11/14/92 15:05	262	148
11/15/92 13:00	263	141
11/15/92 13:00	263	141
11/15/92 13:05	263	141
11/15/92 13:05	263	141
11/16/92 9:30	264	128
11/16/92 9:30	264	128
11/16/92 9:35	264	128
11/16/92 9:35	264	128
11/16/92 13:00	264	136
11/16/92 13:00	264	136
11/17/92 10:00	265	139
11/17/92 10:00	265	139
11/17/92 10:00	265	139
11/17/92 10:00	265	139
11/17/92 10:05	265	139
11/17/92 10:05	265	139
11/17/92 14:30	265	147
11/17/92 14:30	265	147

DATE	DAYS	TEMP F	TEMPEXT.XLS
11/18/92 9:00	266	140	
11/18/92 9:00	266	140	
11/18/92 9:05	266	140	
11/18/92 9:05	266	140	
11/18/92 13:00	266	152	
11/18/92 13:00	266	152	
11/19/92 9:00	267	142	
11/19/92 9:00	267	142	
11/19/92 9:05	267	142	
11/19/92 9:05	267	142	
11/19/92 13:00	267	152	
11/19/92 13:00	267	152	
11/20/92 10:00	268	132	
11/20/92 10:00	268	132	
11/20/92 10:05	268	132	
11/20/92 10:05	268	132	
11/20/92 14:00	268	134	
11/20/92 14:00	268	134	
11/21/92 12:00	269	128	
11/21/92 12:00	269	128	
11/21/92 12:00	269	128	
11/21/92 12:00	269	128	
11/21/92 12:05	269	128	
11/21/92 12:05	269	128	
11/22/92 12:00	270	150	
11/22/92 12:00	270	150	
11/22/92 12:05	270	150	
11/22/92 12:05	270	150	
11/23/92 9:30	271	155	
11/23/92 9:30	271	155	
11/23/92 9:35	271	155	
11/23/92 9:35	271	155	
11/23/92 13:00	271	161	
11/23/92 13:00	271	161	
11/24/92 9:30	272	151	
11/24/92 9:30	272	151	
11/24/92 9:35	272	151	
11/24/92 9:35	272	151	
11/24/92 13:00	272	152	
11/24/92 13:00	272	152	
11/25/92 9:30	273	156	
11/25/92 9:30	273	156	
11/25/92 9:30	273	156	
11/25/92 9:30	273	156	
11/25/92 9:33	273	156	
11/25/92 9:33	273	156	
11/25/92 12:30	273	162	
11/25/92 12:30	273	162	
11/27/92 9:00	275	147	
11/27/92 9:00	275	147	
11/27/92 9:03	275	147	
11/27/92 9:03	275	147	

DATE	DAYS	TEMP F	TEMPEXT.XLS
11/27/92 13:00	275	155	
11/27/92 13:00	275	155	
11/28/92 16:00	276	151	
11/28/92 16:00	276	151	
11/28/92 16:00	276	151	
11/28/92 16:03	276	151	
11/28/92 16:03	276	151	
11/28/92 16:03	276	151	
11/29/92 12:00	277	157	
11/29/92 12:00	277	157	
11/29/92 12:03	277	157	
11/29/92 12:03	277	157	
11/30/92 9:30	278	145	
11/30/92 9:30	278	145	
11/30/92 9:35	278	145	
11/30/92 9:35	278	145	
11/30/92 14:00	278	154	
11/30/92 14:00	278	154	
11/30/92 14:00	278	154	
12/1/92 9:30	279	141	
12/1/92 9:30	279	141	
12/1/92 9:30	279	141	
12/1/92 9:35	279	141	
12/1/92 9:35	279	141	
12/1/92 14:00	279	150	
12/1/92 14:00	279	150	
12/4/92 10:30	282	134	
12/4/92 10:30	282	134	
12/4/92 10:33	282	134	
12/4/92 10:33	282	134	
12/4/92 15:30	282	137	
12/4/92 15:30	282	137	
12/5/92 11:03	283	133	
12/5/92 11:03	283	133	
12/5/92 11:03	283	133	
12/5/92 11:05	283	133	
12/5/92 11:05	283	133	
12/6/92 18:00	284	138	
12/6/92 18:00	284	138	
12/6/92 18:03	284	138	
12/6/92 18:03	284	138	
12/7/92 10:30	285	135	
12/7/92 10:30	285	135	
12/7/92 10:33	285	135	
12/7/92 10:33	285	135	
12/7/92 10:33	285	135	
12/7/92 15:00	285	141	
12/7/92 15:00	285	141	
12/7/92 15:00	285	141	
12/8/92 10:00	286	140	
12/8/92 10:00	286	140	
12/8/92 10:03	286	140	

DATE	DAYS	TEMP F	TEMPEXT.XLS
12/8/92 10:03	286	140	
12/8/92 14:00	286	141	
12/8/92 1400	#VALUE!	141	
12/9/92 9:30	287	127	
12/9/92 9:30	287	127	
12/9/92 9:33	287	127	
12/9/92 9:33	287	127	
12/9/92 13:30	287	131	
12/9/92 13:30	287	131	
12/9/92 13:30	287	131	
12/10/92 8:30	288	130	
12/10/92 8:30	288	130	
12/10/92 8:30	288	130	
12/10/92 8:33	288	130	
12/10/92 8:33	288	130	
12/10/92 14:00	288	131	
12/10/92 14:00	288	131	
12/11/92 9:00	289	123	
12/11/92 9:00	289	123	
12/11/92 9:03	289	123	
12/11/92 9:03	289	123	
12/11/92 13:30	289	130	
12/11/92 13:30	289	130	
12/12/92 12:00	290	140	
12/12/92 12:00	290	140	
12/12/92 12:00	290	140	
12/12/92 12:03	290	140	
12/12/92 12:03	290	140	
12/14/92 10:00	292	127	
12/14/92 10:00	292	127	
12/14/92 10:03	292	127	
12/14/92 10:03	292	127	
12/14/92 15:00	292	133	
12/14/92 15:00	292	133	
12/15/92 9:30	293	128	
12/15/92 9:30	293	128	
12/15/92 9:33	293	128	
12/15/92 9:33	293	128	
12/15/92 9:33	293	128	
12/15/92 13:30	293	133	
12/15/92 13:30	293	133	
12/16/92 9:00	294	133	
12/16/92 9:00	294	133	
12/16/92 9:05	294	133	
12/16/92 9:05	294	133	
12/16/92 14:00	294	141	
12/16/92 14:00	294	141	
12/16/92 14:00	294	141	
12/17/92 9:00	295	131	
12/17/92 9:00	295	131	
12/17/92 9:03	295	131	
12/17/92 9:03	295	131	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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12/17/92 13:00	295	137
12/17/92 13:00	295	137
12/18/92 9:30	296	142
12/18/92 9:30	296	142
12/18/92 9:33	296	142
12/18/92 9:33	296	142
12/18/92 13:00	296	142
12/18/92 13:00	296	142
12/19/92 17:30	297	142
12/19/92 17:30	297	142
12/19/92 17:30	297	142
12/19/92 17:33	297	142
12/19/92 17:33	297	142
12/20/92 10:30	298	148
12/20/92 10:30	298	148
12/20/92 10:35	298	148
12/20/92 10:35	298	148
12/21/92 10:00	299	141
12/21/92 10:00	299	141
12/21/92 10:05	299	141
12/21/92 10:05	299	141
12/21/92 14:30	299	133
12/21/92 14:30	299	133
12/22/92 10:00	300	140
12/22/92 10:00	300	140
12/22/92 10:05	300	140
12/22/92 10:05	300	140
12/22/92 13:30	300	141
12/22/92 13:30	300	141
12/22/92 13:30	300	141
12/23/92 9:00	301	141
12/23/92 9:00	301	141
12/23/92 9:00	301	141
12/23/92 9:05	301	141
12/23/92 9:05	301	141
12/23/92 9:05	301	141
12/23/92 14:00	301	147
12/23/92 14:00	301	147
12/24/92 10:30	302	143
12/24/92 10:30	302	143
12/24/92 10:35	302	143
12/24/92 10:35	302	143
12/24/92 12:30	302	143
12/24/92 12:30	302	143
12/26/92 13:00	304	140
12/26/92 13:00	304	140
12/26/92 13:00	304	140
12/26/92 13:00	304	140
12/27/92 12:30	305	123
12/27/92 12:30	305	123
12/28/92 16:30	308	125
12/28/92 16:30	308	125

DATE	DAYS	TEMP F	TEMPEXT.XLS
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12/28/92 16:35	306	125
12/28/92 16:35	306	125
12/29/92 11:00	307	133
12/29/92 11:00	307	133
12/29/92 11:03	307	133
12/29/92 11:03	307	133
12/29/92 14:00	307	135
12/29/92 14:00	307	135
12/30/92 10:00	308	138
12/30/92 10:00	308	138
12/30/92 10:00	308	138
12/30/92 10:05	308	138
12/30/92 10:05	308	138
12/30/92 14:30	308	140
12/30/92 14:30	308	140
12/31/92 11:00	309	140
12/31/92 11:00	309	140
12/31/92 11:00	309	140
12/31/92 11:05	309	140
12/31/92 11:05	309	140
12/31/92 12:00	309	147
12/31/92 12:00	309	147
1/2/93 12:00	311	141
1/2/93 12:00	311	141
1/2/93 12:00	311	141
1/2/93 12:03	311	141
1/2/93 12:03	311	141
1/3/93 15:00	312	149
1/3/93 15:00	312	149
1/3/93 15:03	312	149
1/3/93 15:03	312	149
1/4/93 10:30	313	140
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1/4/93 10:33	313	140
1/4/93 10:33	313	140
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1/4/93 14:30	313	149
1/5/93 9:30	314	152
1/5/93 9:30	314	152
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1/5/93 9:35	314	152
1/5/93 9:35	314	152
1/5/93 14:00	314	152
1/5/93 14:00	314	152
1/6/93 9:30	315	152
1/6/93 9:30	315	152
1/6/93 9:30	315	152
1/6/93 9:35	315	152
1/6/93 9:35	315	152
1/6/93 14:30	315	155
1/6/93 14:30	315	155
1/7/93 10:00	316	142

DATE	DAYS	TEMP F	TEMPEXT.XLS
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1/7/93 10:00	316	142
1/7/93 10:03	316	142
1/7/93 10:03	316	142
1/7/93 13:30	316	140
1/7/93 13:30	316	140
1/8/93 9:30	317	164
1/8/93 9:30	317	164
1/8/93 9:35	317	164
1/8/93 9:35	317	164
1/8/93 9:35	317	164
1/8/93 13:30	317	144
1/8/93 13:30	317	144
1/9/93 12:00	318	136
1/9/93 12:00	318	136
1/9/93 12:03	318	136
1/9/93 12:03	318	136
1/10/93 14:30	319	135
1/10/93 14:30	319	135
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1/10/93 14:35	319	135
1/10/93 14:35	319	135
1/11/93 11:00	320	136
1/11/93 11:00	320	136
1/11/93 11:05	320	136
1/11/93 11:05	320	136
1/11/93 14:30	320	127
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1/13/93 8:30	322	141
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1/13/93 8:33	322	141
1/13/93 8:33	322	141
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1/14/93 10:30	323	143
1/14/93 10:35	323	143
1/14/93 10:35	323	143
1/15/93 10:30	324	138
1/15/93 10:30	324	138
1/15/93 10:35	324	138
1/15/93 10:35	324	138
1/26/93 16:00	335	105
1/26/93 16:00	335	105
1/26/93 16:00	335	105
1/26/93 16:03	335	105
1/26/93 16:03	335	105

DATE	DAYS	TEMP F	TEMPEXT.XLS
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1/27/93 10:30	336	110
1/27/93 10:30	336	110
1/27/93 10:33	336	110
1/27/93 10:33	336	110
1/28/93 9:30	337	118
1/28/93 9:30	337	118
1/28/93 9:30	337	118
1/28/93 9:33	337	118
1/28/93 9:33	337	118
1/29/93 8:30	338	119
1/29/93 8:30	338	119
1/29/93 8:30	338	119
1/29/93 8:35	338	119
1/29/93 8:35	338	119
1/31/93 11:00	340	125
1/31/93 11:00	340	125
1/31/93 11:03	340	125
1/31/93 11:03	340	125
2/1/93 10:30	341	119
2/1/93 10:30	341	119
2/1/93 10:33	341	119
2/1/93 10:33	341	119
2/1/93 13:30	341	134
2/1/93 13:30	341	134
2/1/93 13:30	341	134
2/2/93 9:15	342	118
2/2/93 9:15	342	118
2/2/93 9:17	342	118
2/2/93 9:17	342	118
2/2/93 14:00	342	128
2/2/93 14:00	342	128
2/2/93 14:00	342	128
2/3/93 9:30	343	121
2/3/93 9:30	343	121
2/3/93 9:35	343	121
2/3/93 9:35	343	121
2/3/93 15:00	343	131
2/3/93 15:00	343	131
2/4/93 10:00	344	129
2/4/93 10:00	344	129
2/4/93 10:00	344	129
2/4/93 10:03	344	129
2/4/93 10:03	344	129
2/4/93 15:00	344	136
2/4/93 15:00	344	136
2/5/93 10:00	345	126
2/5/93 10:00	345	126
2/5/93 10:03	345	126
2/5/93 10:03	345	126
2/5/93 15:30	345	115
2/5/93 15:30	345	115
2/5/93 15:30	345	115

DATE	DAYS	TEMP F	TEMPEXT.XLS
2/7/93 15:00	347	99	
2/7/93 15:00	347	99	
2/7/93 15:03	347	99	
2/7/93 15:03	347	99	
2/8/93 10:30	348	124	
2/8/93 10:30	348	124	
2/8/93 10:30	348	124	
2/8/93 10:33	348	124	
2/8/93 10:33	348	124	
2/8/93 15:00	348	130	
2/8/93 15:00	348	130	
2/9/93 10:30	349	127	
2/9/93 10:30	349	127	
2/9/93 10:33	349	127	
2/9/93 10:33	349	127	
2/10/93 13:00	350	125	
2/10/93 13:00	350	125	
2/10/93 13:05	350	125	
2/10/93 13:05	350	125	
2/11/93 9:00	351	130	
2/11/93 9:00	351	130	
2/11/93 9:00	351	130	
2/11/93 9:03	351	130	
2/11/93 9:03	351	130	
2/11/93 14:00	351	137	
2/11/93 14:00	351	137	
2/12/93 10:00	352	130	
2/12/93 10:00	352	130	
2/12/93 10:03	352	130	
2/12/93 10:03	352	130	
2/12/93 16:00	352	139	
2/12/93 16:00	352	139	
2/13/93 11:30	353	128	
2/13/93 11:30	353	128	
2/13/93 11:33	353	128	
2/13/93 11:33	353	128	
2/14/93 19:00	354	131	
2/14/93 19:00	354	131	
2/14/93 19:03	354	131	
2/14/93 19:03	354	131	
2/15/93 9:00	355	128	
2/15/93 9:00	355	128	
2/15/93 9:00	355	128	
2/15/93 9:00	355	128	
2/15/93 9:03	355	128	
2/15/93 9:03	355	128	
2/15/93 14:30	355	135	
2/15/93 14:30	355	135	
2/16/93 9:00	356	127	
2/16/93 9:00	356	127	
2/16/93 9:05	356	127	
2/16/93 9:05	356	127	

DATE	DAYS	TEMP F	TEMPEXT.XLS
2/16/93 14:30	356	129	
2/16/93 14:30	356	129	
2/17/93 9:00	357	123	
2/17/93 9:00	357	123	
2/17/93 9:05	357	123	
2/17/93 9:05	357	123	
2/17/93 15:00	357	136	
2/17/93 15:00	357	136	
2/18/93 10:00	358	125	
2/18/93 10:00	358	125	
2/18/93 10:05	358	125	
2/18/93 10:05	358	125	
2/18/93 10:05	358	125	
2/18/93 10:05	358	125	
2/18/93 14:00	358	128	
2/18/93 14:00	358	128	
2/19/93 9:30	359	116	
2/19/93 9:30	359	116	
2/19/93 9:35	359	116	
2/19/93 9:35	359	116	
2/19/93 14:00	359	128	
2/19/93 14:00	359	128	
2/19/93 14:00	359	128	
2/24/93 11:00	364	129	
2/24/93 11:00	364	129	
2/24/93 11:05	364	129	
2/24/93 11:05	364	129	
2/24/93 15:50	364	131	
2/24/93 15:50	364	131	
2/25/93 9:30	365	122	
2/25/93 9:30	365	122	
2/25/93 9:33	365	122	
2/25/93 9:33	365	122	
2/25/93 9:33	365	122	
2/25/93 13:55	365	122	
2/25/93 13:55	365	122	
2/25/93 13:55	365	122	
2/26/93 9:30	366	118	
2/26/93 9:30	366	118	
2/26/93 9:35	366	118	
2/26/93 9:35	366	118	
2/26/93 13:30	366	124	
2/26/93 13:30	366	124	
2/27/93 13:00	367	135	
2/27/93 13:00	367	135	
2/27/93 13:03	367	135	
2/27/93 13:03	367	135	
2/27/93 13:03	367	135	
2/28/93 10:00	368	133	
2/28/93 10:00	368	133	
2/28/93 10:00	368	133	
2/28/93 10:05	368	133	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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2/28/93 10:05	368	133
2/28/93 15:45	368	140
2/28/93 15:45	368	140
3/1/93 10:00	369	143
3/1/93 10:00	369	143
3/1/93 10:05	369	143
3/1/93 10:05	369	143
3/1/93 15:00	369	148
3/1/93 15:00	369	148
3/2/93 8:30	370	135
3/2/93 8:30	370	135
3/2/93 8:35	370	135
3/2/93 8:35	370	135
3/2/93 15:00	370	142
3/2/93 15:00	370	142
3/3/93 10:00	371	138
3/3/93 10:00	371	138
3/3/93 10:05	371	138
3/3/93 10:05	371	138
3/3/93 10:05	371	138
3/3/93 14:00	371	137
3/3/93 14:00	371	137
3/3/93 14:00	371	137
3/4/93 10:00	372	131
3/4/93 10:00	372	131
3/4/93 10:05	372	131
3/4/93 10:05	372	131
3/4/93 13:30	372	137
3/4/93 13:30	372	137
3/4/93 17:00	372	137
3/5/93 9:30	373	128
3/5/93 9:30	373	128
3/5/93 9:35	373	128
3/5/93 9:35	373	128
3/5/93 9:35	373	128
3/5/93 14:30	373	124
3/5/93 14:30	373	124
3/5/93 14:30	373	124
3/6/93 10:00	374	128
3/6/93 10:00	374	128
3/6/93 10:00	374	128
3/6/93 10:03	374	128
3/6/93 10:03	374	128
3/6/93 16:30	374	136
3/6/93 16:30	374	136
3/7/93 13:00	375	139
3/7/93 13:00	375	139
3/7/93 13:03	375	139
3/7/93 13:03	375	139
3/8/93 10:30	376	128
3/8/93 10:30	376	128
3/8/93 10:35	376	128

DATE	DAYS	TEMP F	TEMPEXT.XLS
3/8/93 10:35	376	128	
3/8/93 16:00	376	140	
3/8/93 16:00	376	140	
3/9/93 10:00	377	139	
3/9/93 10:00	377	139	
3/9/93 10:05	377	139	
3/9/93 10:05	377	139	
3/9/93 10:05	377	139	
3/9/93 14:00	377	143	
3/9/93 14:00	377	143	
3/9/93 14:00	377	143	
3/10/93 9:30	378	135	
3/10/93 9:30	378	135	
3/10/93 9:33	378	135	
3/10/93 9:33	378	135	
3/10/93 13:00	378	143	
3/10/93 13:00	378	143	
3/11/93 8:00	379	131	
3/11/93 8:00	379	131	
3/11/93 8:03	379	131	
3/11/93 8:03	379	131	
3/11/93 12:00	379	141	
3/11/93 12:00	379	141	
3/12/93 10:00	380	131	
3/12/93 10:00	380	131	
3/12/93 10:00	380	131	
3/12/93 10:00	380	131	
3/12/93 10:05	380	131	
3/12/93 10:05	380	131	
3/12/93 14:00	380	127	
3/12/93 14:00	380	127	
3/13/93 13:00	381	106	
3/13/93 13:00	381	106	
3/13/93 13:03	381	106	
3/13/93 13:03	381	106	
3/13/93 13:03	381	106	
3/14/93 15:00	382	116	
3/14/93 15:00	382	116	
3/14/93 15:03	382	116	
3/14/93 15:03	382	116	
3/14/93 15:03	382	116	
3/15/93 14:00	383	135	
3/15/93 14:00	383	135	
3/15/93 14:05	383	135	
3/15/93 14:05	383	135	
3/16/93 9:30	384	125	
3/16/93 9:30	384	125	
3/16/93 9:33	384	125	
3/16/93 9:33	384	125	
3/16/93 15:30	384	135	
3/16/93 15:30	384	135	
3/17/93 9:00	385	133	

DATE	DAYS	TEMP F	TEMPEXT.XLS
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3/17/93 9:00	385	133
3/17/93 9:03	385	133
3/17/93 9:03	385	133
3/17/93 13:00	385	131
3/17/93 13:00	385	131
3/17/93 13:00	385	131
3/18/93 9:00	386	122
3/18/93 9:00	386	122
3/18/93 9:03	386	122
3/18/93 9:03	386	122
3/18/93 9:03	386	122
3/18/93 13:00	386	135
3/18/93 13:00	386	135
3/19/93 10:30	387	127
3/19/93 10:30	387	127
3/19/93 10:30	387	127
3/19/93 10:30	387	127
3/19/93 10:33	387	127
3/19/93 10:33	387	127
3/19/93 14:00	387	135
3/19/93 14:00	387	135
3/20/93 9:30	388	131
3/20/93 9:30	388	131
3/20/93 9:33	388	131
3/20/93 9:33	388	131
3/20/93 13:00	388	135
3/20/93 13:00	388	135
3/21/93 9:30	389	137
3/21/93 9:30	389	137
3/21/93 9:30	389	137
3/21/93 9:33	389	137
3/21/93 9:33	389	137
3/22/93 9:30	390	137
3/22/93 9:30	390	137
3/22/93 9:33	390	137
3/22/93 9:33	390	137
3/22/93 15:00	390	139
3/22/93 15:00	390	139
3/23/93 11:00	391	137
3/23/93 11:00	391	137
3/23/93 11:00	391	137
3/23/93 11:03	391	137
3/23/93 11:03	391	137
3/23/93 15:00	391	139
3/23/93 15:00	391	139
3/24/93 7:00	392	142
3/24/93 7:00	392	142
3/24/93 7:05	392	142
3/24/93 7:05	392	142
3/24/93 16:00	392	151
3/24/93 16:00	392	151
3/24/93 16:00	392	151

DATE	DAYS	TEMP F	TEMPEXT.XLS
3/25/93 9:30	393	153	
3/25/93 9:30	393	153	
3/25/93 9:30	393	153	
3/25/93 9:33	393	153	
3/25/93 9:33	393	153	
3/25/93 13:30	393	158	
3/25/93 13:30	393	158	
3/26/93 9:00	394	130	
3/26/93 9:00	394	130	
3/26/93 9:03	394	130	
3/26/93 9:03	394	130	
3/26/93 13:00	394	132	
3/26/93 13:00	394	132	
3/27/93 11:00	395	136	
3/27/93 11:00	395	136	
3/27/93 11:03	395	136	
3/27/93 11:03	395	136	
3/28/93 9:00	396	140	
3/28/93 9:00	396	140	
3/28/93 9:00	396	140	
3/28/93 9:03	396	140	
3/28/93 9:03	396	140	
3/28/93 13:00	396	142	
3/28/93 13:00	396	142	
3/29/93 10:00	397	149	
3/29/93 10:00	397	149	
3/29/93 10:05	397	149	
3/29/93 10:05	397	149	
3/29/93 18:33	397	148	
3/29/93 18:33	397	148	
3/30/93 9:00	398	149	
3/30/93 9:00	398	149	
3/30/93 9:03	398	149	
3/30/93 9:03	398	149	
3/30/93 9:03	398	149	
3/30/93 17:00	398	142	
3/30/93 17:00	398	142	
3/31/93 10:30	399	124	
3/31/93 10:30	399	124	
3/31/93 10:33	399	124	
3/31/93 10:33	399	124	
3/31/93 10:33	399	124	
3/31/93 13:00	399	142	
3/31/93 13:00	399	142	
4/1/93 10:00	400	147	
4/1/93 10:00	400	147	
4/1/93 10:00	400	147	
4/1/93 10:05	400	147	
4/1/93 10:05	400	147	
4/1/93 13:00	400	144	
4/1/93 13:00	400	144	
4/2/93 10:30	401	132

AIIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.

5 of 7

DATE	DAYS	TEMP F	TEMPEXT.XLS
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4/2/93 10:30	401	132
4/2/93 10:33	401	132
4/2/93 10:33	401	132
4/2/93 14:00	401	128
4/2/93 14:00	401	128
4/2/93 14:00	401	128
4/3/93 13:00	402	148
4/3/93 13:00	402	148
4/3/93 13:03	402	148
4/3/93 13:03	402	148
4/3/93 13:03	402	148
4/4/93 14:00	403	150
4/4/93 14:00	403	150
4/4/93 14:03	403	150
4/4/93 14:03	403	150
4/5/93 11:00	404	121
4/5/93 11:00	404	121
4/5/93 11:03	404	121
4/5/93 11:03	404	121
4/5/93 11:03	404	121
4/5/93 16:00	404	125
4/5/93 16:00	404	125
4/6/93 11:30	405	131
4/6/93 11:30	405	131
4/6/93 11:33	405	131
4/6/93 11:33	405	131
4/6/93 13:30	405	133
4/6/93 13:30	405	133
4/7/93 10:00	406	133
4/7/93 10:00	406	133
4/7/93 10:03	406	133
4/7/93 10:03	406	133
4/7/93 10:03	406	133
4/7/93 13:00	406	140
4/7/93 13:00	406	140
4/8/93 10:00	407	149
4/8/93 10:00	407	149
4/8/93 10:05	407	149
4/8/93 10:05	407	149
4/8/93 17:30	407	153
4/8/93 17:30	407	153
4/8/93 17:30	407	153
4/9/93 13:15	408	143
4/9/93 13:15	408	143
4/9/93 13:18	408	143
4/9/93 13:18	408	143
4/9/93 16:00	408	138
4/9/93 16:00	408	138
4/9/93 16:00	408	138
4/10/93 12:00	409	143
4/10/93 12:00	409	143
4/10/93 12:03	409	143

DATE	DAYS	TEMP F	TEMPEXT.XLS
4/10/93 12:03	409	143	
4/11/93 10:30	410	140	
4/11/93 10:30	410	140	
4/11/93 10:33	410	140	
4/11/93 10:33	410	140	
4/11/93 20:00	410	143	
4/11/93 20:00	410	143	
4/12/93 10:08	411	151	
4/12/93 10:08	411	151	
4/12/93 10:08	411	151	
4/12/93 10:11	411	151	
4/12/93 10:11	411	151	
4/12/93 12:15	411	156	
4/12/93 12:15	411	156	
4/13/93 11:00	412	152	
4/13/93 11:00	412	152	
4/13/93 11:03	412	152	
4/13/93 11:03	412	152	
4/13/93 15:30	412	141	
4/13/93 15:30	412	141	
4/14/93 11:00	413	157	
4/14/93 11:00	413	157	
4/14/93 11:00	413	157	
4/14/93 11:05	413	157	
4/14/93 11:05	413	157	
4/14/93 14:00	413	161	
4/14/93 14:00	413	161	
4/15/93 10:00	414	141	
4/15/93 10:00	414	141	
4/15/93 10:03	414	141	
4/15/93 10:03	414	141	
4/15/93 10:03	414	141	
4/15/93 17:00	414	143	
4/15/93 17:00	414	143	
4/15/93 17:00	414	143	
4/16/93 10:30	415	145	
4/16/93 10:30	415	145	
4/16/93 10:33	415	145	
4/16/93 10:33	415	145	
4/16/93 10:33	415	145	
4/16/93 16:30	415	148	
4/16/93 16:30	415	148	
4/17/93 11:00	416	140	
4/17/93 11:00	416	140	
4/17/93 11:03	416	140	
4/17/93 11:03	416	140	
4/17/93 13:00	416	138	
4/17/93 13:00	416	138	
4/18/93 12:00	417	145	
4/18/93 12:00	417	145	
4/18/93 12:00	417	145	
4/18/93 12:05	417	145	

DATE	DAYS	TEMP F	TEMPEXT.XLS
4/18/93 12:05	417	145	
4/19/93 7:30	418	137	
4/19/93 7:30	418	137	
4/19/93 7:33	418	137	
4/19/93 7:33	418	137	
4/19/93 14:30	418	149	
4/19/93 14:30	418	149	
4/20/93 10:30	419	150	
4/20/93 10:30	419	150	
4/20/93 10:33	419	150	
4/20/93 10:33	419	150	
4/20/93 13:00	419	157	
4/20/93 13:00	419	157	
4/21/93 11:00	420	143	
4/21/93 11:00	420	143	
4/21/93 11:03	420	143	
4/21/93 11:03	420	143	
4/21/93 15:00	420	130	
4/21/93 15:00	420	130	
4/21/93 15:00	420	130	
4/22/93 11:30	421	138	
4/22/93 11:30	#VALUE!	138	
4/22/93 11:33	421	138	
4/22/93 11:33	421	138	
4/22/93 15:31	421	145	
4/22/93 15:31	421	145	
4/23/93 10:20	422	151	
4/23/93 10:20	422	151	
4/23/93 10:23	422	151	
4/23/93 10:23	422	151	
4/23/93 22:20	423	137	
4/23/93 22:20	423	137	
4/24/93 12:00	423	152	
4/24/93 12:00	423	152	
4/24/93 12:10	423	152	
4/24/93 12:10	423	152	
4/25/93 7:38	#VALUE!	142	
4/25/93 7:38	#VALUE!	142	
4/25/93 7:42	424	142	
4/25/93 7:42	424	142	
4/25/93 18:45	424	148	
4/25/93 18:45	424	148	
4/26/93 9:08	425	139	
4/26/93 9:08	425	139	
4/26/93 10:45	425	139	
4/26/93 10:45	425	139	
4/26/93 13:18	425	150	
4/26/93 13:18	425	150	
4/27/93 7:45	426	132	
4/27/93 7:45	426	132	
4/27/93 7:45	426	132	
4/27/93 7:47	426	132	

DATE	DAYS	TEMP F	TEMPEXT.XLS
4/27/93 7:47	426	132	
4/27/93 7:47	426	132	
4/27/93 19:15	426	148	
4/27/93 19:15	426	148	
4/28/93 9:13	427	145	
4/28/93 9:13	427	145	
4/28/93 9:15	427	145	
4/28/93 9:15	427	145	
4/28/93 12:10	427	184	
4/28/93 12:10	427	184	
4/28/93 12:12	427	184	
4/28/93 12:12	427	184	
4/29/93 8:15	428	180	
4/29/93 8:15	428	180	
4/29/93 8:18	428	180	
4/29/93 8:18	428	180	
4/29/93 16:08	428	193	
4/29/93 16:08	428	193	
4/29/93 16:08	428	193	
4/30/93 9:12	429	185	
4/30/93 9:12	429	185	
4/30/93 9:15	429	185	
4/30/93 9:15	429	185	
4/30/93 17:26	429	190	
4/30/93 17:26	429	190	

DATE

DAYS

TEMP F

C_OTEMP.XLS

WSRC CHART

C_OTEMP.XLS

DATE	DAYS	CatOX Temp (°F)
2/26/92 10:42	0	1000
2/26/92 10:47	0	1000
2/26/92 10:51	0	1200
2/26/92 10:59	0	1600
2/26/92 11:20	0	1600
2/26/92 11:26	0	1600
2/26/92 12:20	0	1600
2/26/92 12:28	0	1600
2/26/92 13:26	0	1600
2/26/92 13:38	0	1600
2/26/92 15:20	0	1600
2/26/92 15:25	0	1600
2/26/92 19:30	0	1600
2/26/92 19:50	0	1600
2/26/92 20:30	0	1600
2/26/92 23:20	1	1600
2/26/92 23:25	1	1600
2/27/92 3:20	1	1600
2/27/92 3:23	1	1600
2/27/92 7:20	1	1600
2/27/92 7:23	1	1500
2/27/92 11:22	1	1500
2/27/92 11:27	1	1400
2/27/92 15:22	1	1400
2/27/92 15:26	1	1400
2/27/92 17:20	1	1300
2/27/92 18:10	1	1450
2/28/92 6:20	2	1450
2/28/92 6:23	2	1450
2/28/92 12:15	2	1450
2/28/92 18:20	2	1450
2/28/92 18:20	2	1450
2/29/92 7:05	3	1450
2/29/92 7:10	3	1450
2/29/92 19:10	3	1450
2/29/92 19:15	3	1450
3/1/92 3:05	4	1500
3/1/92 3:12	4	1500
3/1/92 15:00	4	1500
3/1/92 15:05	4	1500
3/2/92 7:45	5	1500
3/2/92 7:50	5	1500
3/2/92 19:00	5	1500
3/2/92 19:05	5	1500
3/5/92 23:45	9	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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3/5/92 23:48	9	1500
3/6/92 0:45	9	1500
3/6/92 2:45	9	1500
3/6/92 2:50	9	1500
3/6/92 6:45	9	1500
3/6/92 10:45	9	1500
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3/6/92 14:45	9	1500
3/6/92 14:46	9	1500
3/7/92 7:45	10	1500
3/7/92 7:50	10	1500
3/7/92 16:45	10	1500
3/8/92 7:45	11	1500
3/8/92 7:50	11	1500
3/8/92 16:45	11	1500
3/9/92 7:45	12	1500
3/9/92 7:50	12	1500
3/9/92 16:45	12	1500
3/9/92 16:45	12	1500
3/10/92 7:45	13	1500
3/10/92 7:50	13	1500
3/10/92 10:00	13	1500
3/10/92 16:45	13	1500
3/11/92 7:45	14	1500
3/11/92 7:50	14	1500
3/11/92 16:45	14	1500
3/12/92 7:45	15	1500
3/12/92 7:50	15	1500
3/12/92 7:50	15	1500
3/12/92 15:45	15	1500
3/13/92 7:45	16	1500
3/13/92 7:50	16	1500
3/13/92 16:45	16	1500
3/14/92 7:45	17	1500
3/14/92 7:50	17	1500
3/14/92 15:45	17	1500
3/15/92 7:30	18	1500
3/15/92 7:35	18	1500
3/15/92 16:15	18	1500
3/16/92 7:35	19	1500
3/16/92 7:40	19	1500
3/16/92 7:40	19	1500
3/16/92 15:50	19	1500
3/17/92 7:50	20	1500
3/17/92 7:55	20	1500
3/17/92 16:30	20	1500
3/18/92 7:50	21	1500
3/18/92 7:55	21	1500
3/18/92 17:00	21	1500
3/19/92 7:45	22	1500
3/19/92 7:50	22	1500
3/19/92 14:30	22	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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3/20/92 8:00	23	1500
3/20/92 8:05	23	1500
3/20/92 17:00	23	1500
3/21/92 7:45	24	1500
3/21/92 7:50	24	1500
3/21/92 7:50	24	1500
3/21/92 16:00	24	1500
3/22/92 7:40	25	1500
3/22/92 7:45	25	1500
3/22/92 15:45	25	1500
3/23/92 7:45	26	1500
3/23/92 7:50	26	1500
3/23/92 15:00	26	1500
3/24/92 8:00	27	1500
3/24/92 8:00	27	1500
3/24/92 8:05	27	1500
3/24/92 16:45	27	1500
3/25/92 8:00	28	1500
3/25/92 8:05	28	1500
3/25/92 16:30	28	1500
3/26/92 7:00	29	1500
3/26/92 7:05	29	1500
3/26/92 16:00	29	1500
3/27/92 8:00	30	1500
3/27/92 8:05	30	1500
3/27/92 17:00	30	1500
3/28/92 6:55	31	1500
3/28/92 7:00	31	1500
3/28/92 14:00	31	1500
3/29/92 6:50	32	1500
3/29/92 6:55	32	1500
3/29/92 14:55	32	1500
4/2/92 15:00	36	1500
4/2/92 15:01	36	1500
4/2/92 15:05	36	1500
4/2/92 17:00	36	1500
4/2/92 17:05	36	1500
4/2/92 19:00	36	1500
4/3/92 8:00	37	1500
4/3/92 8:05	37	1500
4/3/92 16:05	37	1500
4/4/92 6:45	38	1500
4/4/92 6:50	38	1500
4/5/92 8:00	39	1500
4/5/92 8:05	39	1500
4/5/92 15:00	39	1500
4/5/92 15:00	39	1500
4/6/92 9:00	40	1500
4/6/92 9:05	40	1500
4/6/92 16:00	40	1500
4/7/92 9:00	41	1500
4/7/92 9:05	41	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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4/7/92 16:00	41	1550
4/8/92 8:55	42	1550
4/8/92 9:00	42	1550
4/8/92 16:00	42	1550
4/9/92 7:00	43	1550
4/9/92 7:00	43	1550
4/9/92 7:05	43	1550
4/9/92 16:00	43	1550
4/10/92 7:00	44	1550
4/10/92 7:05	44	1550
4/10/92 15:00	44	1550
4/10/92 15:00	44	1550
4/11/92 7:00	45	1550
4/11/92 7:05	45	1550
4/11/92 13:00	45	1550
4/12/92 7:00	46	1550
4/12/92 7:05	46	1550
4/12/92 13:55	46	1550
4/13/92 8:00	47	1550
4/13/92 8:05	47	1550
4/13/92 16:00	47	1550
4/14/92 8:00	48	1550
4/14/92 8:00	48	1550
4/14/92 8:05	48	1550
4/14/92 16:00	48	1550
4/15/92 8:00	49	1550
4/15/92 8:05	49	1550
4/15/92 15:00	49	1550
4/16/92 7:00	50	1550
4/16/92 7:05	50	1550
4/16/92 15:55	50	1550
4/17/92 8:00	51	1550
4/17/92 8:05	51	1550
4/17/92 14:00	51	1550
4/18/92 7:00	52	1550
4/18/92 7:05	52	1550
4/18/92 13:00	52	1550
4/19/92 7:00	53	1550
4/19/92 7:00	53	1550
4/19/92 7:05	53	1550
4/19/92 14:05	53	1550
4/20/92 7:00	54	1550
4/20/92 7:05	54	1550
4/20/92 9:00	54	1550
4/20/92 16:00	54	1550
4/21/92 9:00	55	1550
4/21/92 9:05	55	1550
4/21/92 16:00	55	1550
4/22/92 8:00	56	1550
4/22/92 8:00	56	1550
4/22/92 8:05	56	1550
4/22/92 16:00	56	1550

DATE	DAYS	TEMP F	C_OTEMP.XLS
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4/23/92 9:00	57	1550
4/23/92 9:05	57	1550
4/23/92 16:00	57	1600
4/23/92 16:05	57	1600
4/24/92 9:00	58	1600
4/24/92 9:00	58	1600
4/24/92 9:05	58	1600
4/24/92 14:00	58	1600
4/26/92 8:00	60	1600
4/26/92 8:05	60	1600
4/26/92 14:00	60	1600
4/27/92 8:00	61	1600
4/27/92 8:00	61	1600
4/27/92 8:05	61	1600
4/27/92 8:05	61	1600
4/27/92 15:00	61	1600
4/27/92 15:00	61	1600
4/28/92 8:00	62	1600
4/28/92 8:00	62	1600
4/28/92 8:05	62	1600
4/28/92 8:05	62	1600
4/28/92 8:05	62	1600
4/28/92 8:05	62	1600
4/28/92 15:00	62	1600
4/28/92 15:00	62	1600
4/29/92 8:00	63	1600
4/29/92 8:00	63	1600
4/29/92 8:05	63	1600
4/29/92 8:05	63	1600
4/29/92 15:00	63	1600
4/29/92 15:00	63	1600
4/30/92 8:00	64	1600
4/30/92 8:00	64	1600
4/30/92 8:05	64	1600
4/30/92 8:05	64	1600
4/30/92 16:00	64	1600
4/30/92 16:00	64	1600
5/1/92 8:00	65	1600
5/1/92 8:00	65	1600
5/1/92 8:05	65	1600
5/1/92 8:05	65	1600
5/1/92 15:00	65	1600
5/1/92 15:00	65	1600
5/2/92 8:00	66	1600
5/2/92 8:00	66	1600
5/2/92 8:05	66	1600
5/2/92 8:05	66	1600
5/3/92 8:00	67	1600
5/3/92 8:00	67	1600
5/3/92 8:00	67	1600
5/3/92 8:05	67	1600
5/3/92 8:05	67	1600

DATE	DAYS	TEMP F	C_OTEMP.XLS
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5/4/92 8:00	68	1600
5/4/92 8:00	68	1600
5/4/92 8:05	68	1600
5/4/92 8:05	68	1600
5/4/92 8:05	68	1600
5/4/92 15:00	68	1600
5/4/92 15:00	68	1600
5/5/92 8:00	69	1600
5/5/92 8:00	69	1600
5/5/92 8:05	69	1600
5/5/92 8:05	69	1600
5/5/92 15:00	69	1600
5/5/92 15:00	69	1600
5/6/92 8:00	70	1600
5/6/92 8:00	70	1600
5/6/92 8:00	70	1600
5/6/92 8:05	70	1600
5/6/92 8:05	70	1600
5/6/92 16:00	70	1600
5/6/92 16:00	70	1600
5/7/92 7:00	71	1600
5/7/92 7:00	71	1600
5/7/92 7:05	71	1600
5/7/92 7:05	71	1600
5/7/92 15:00	71	1600
5/7/92 15:00	71	1600
5/8/92 7:00	72	1600
5/8/92 7:00	72	1600
5/8/92 7:00	72	1600
5/8/92 7:00	72	1600
5/8/92 7:05	72	1600
5/8/92 7:05	72	1600
5/8/92 13:00	72	1600
5/8/92 13:00	72	1600
5/8/92 13:00	72	1600
5/9/92 8:00	73	1600
5/9/92 8:00	73	1600
5/9/92 8:05	73	1600
5/9/92 8:05	73	1600
5/10/92 8:00	74	1600
5/10/92 8:00	74	1600
5/10/92 8:05	74	1600
5/10/92 8:05	74	1600
5/11/92 8:00	75	1600
5/11/92 8:00	75	1600
5/11/92 8:05	75	1600
5/11/92 8:05	75	1600
5/11/92 14:00	75	1550
5/11/92 14:00	75	1550
5/11/92 14:00	75	1550
5/12/92 8:00	76	1550
5/12/92 8:00	76	1550

DATE	DAYS	TEMP F	C_OTEMP.XLS
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5/12/92 8:05	76	1550
5/12/92 8:05	76	1550
5/12/92 14:00	76	1550
5/12/92 14:00	76	1550
5/12/92 14:00	76	1550
5/13/92 8:00	77	1550
5/13/92 8:00	77	1550
5/13/92 8:05	77	1550
5/13/92 8:05	77	1550
5/13/92 14:00	77	1550
5/13/92 14:00	77	1550
5/14/92 7:00	78	1550
5/14/92 7:00	78	1550
5/14/92 7:05	78	1550
5/14/92 7:05	78	1550
5/14/92 15:00	78	1550
5/14/92 15:00	78	1550
5/14/92 15:00	78	1550
5/15/92 7:00	79	1550
5/15/92 7:00	79	1550
5/15/92 7:05	79	1550
5/15/92 7:05	79	1550
5/15/92 14:00	79	1550
5/15/92 14:00	79	1550
5/16/92 10:00	80	1550
5/16/92 10:00	80	1550
5/16/92 10:00	80	1550
5/16/92 10:05	80	1550
5/16/92 10:05	80	1550
5/17/92 8:00	81	1550
5/17/92 8:00	81	1550
5/17/92 8:05	81	1550
5/17/92 8:05	81	1550
5/18/92 17:05	82	1500
5/18/92 17:05	82	1500
5/18/92 17:10	82	1500
5/18/92 17:10	82	1500
5/19/92 8:00	83	1500
5/19/92 8:00	83	1500
5/19/92 8:05	83	1500
5/19/92 8:05	83	1500
5/19/92 15:00	83	1500
5/19/92 15:00	83	1500
5/19/92 15:00	83	1500
5/20/92 8:00	84	1500
5/20/92 8:00	84	1500
5/20/92 8:05	84	1500
5/20/92 8:05	84	1500
5/20/92 8:05	84	1500
5/20/92 15:00	84	1400
5/20/92 15:00	84	1400
5/21/92 8:00	85	1400

DATE	DAYS	TEMP F	C_OTEMP.XLS
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5/21/92 8:00	85	1400
5/21/92 7:55	85	1400
5/21/92 7:55	85	1400
5/21/92 14:30	85	1500
5/21/92 14:30	85	1500
5/21/92 14:30	85	1500
5/22/92 7:05	86	1450
5/22/92 7:05	86	1450
5/22/92 7:00	86	1450
5/22/92 7:00	86	1450
5/22/92 7:00	86	1450
5/22/92 13:05	86	1450
5/22/92 13:05	86	1450
5/22/92 13:05	86	1450
5/23/92 8:00	87	1450
5/23/92 8:00	87	1450
5/23/92 8:05	87	1450
5/23/92 8:05	87	1450
5/24/92 8:00	88	1450
5/24/92 8:00	88	1450
5/24/92 8:05	88	1450
5/24/92 8:05	88	1450
5/25/92 8:00	89	1450
5/25/92 8:00	89	1450
5/25/92 8:00	89	1450
5/25/92 8:05	89	1450
5/25/92 8:05	89	1450
5/25/92 17:00	89	1450
5/25/92 17:00	89	1450
5/26/92 8:00	90	1450
5/26/92 8:00	90	1450
5/26/92 8:05	90	1450
5/26/92 8:05	90	1450
5/26/92 14:00	90	1450
5/26/92 14:00	90	1450
5/26/92 14:00	90	1450
5/27/92 8:00	91	1450
5/27/92 8:00	91	1450
5/27/92 8:05	91	1450
5/27/92 8:05	91	1450
5/27/92 13:00	91	1450
5/27/92 13:00	91	1450
5/28/92 8:00	92	1450
5/28/92 8:00	92	1450
5/28/92 8:05	92	1450
5/28/92 8:05	92	1450
5/28/92 8:05	92	1450
5/28/92 16:00	92	1450
5/28/92 16:00	92	1450
5/28/92 16:00	92	1450
5/29/92 6:05	93	1450
5/29/92 6:05	93	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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5/29/92 6:10	93	1450
5/29/92 6:10	93	1450
5/29/92 12:00	93	1450
5/29/92 12:00	93	1450
5/29/92 12:00	93	1450
5/30/92 8:00	94	1450
5/30/92 8:00	94	1450
5/30/92 8:05	94	1450
5/30/92 8:05	94	1450
5/31/92 10:00	95	1450
5/31/92 10:00	95	1450
5/31/92 10:05	95	1450
5/31/92 10:05	95	1450
6/1/92 8:00	96	1450
6/1/92 8:00	96	1450
6/1/92 8:05	96	1450
6/1/92 8:05	96	1450
6/1/92 14:00	96	1450
6/1/92 14:00	96	1450
6/2/92 8:00	97	1450
6/2/92 8:00	97	1450
6/2/92 8:05	97	1450
6/2/92 8:05	97	1450
6/2/92 8:05	97	1450
6/2/92 14:00	97	1450
6/2/92 14:00	97	1450
6/2/92 14:00	97	1450
6/3/92 8:00	98	1450
6/3/92 8:00	98	1450
6/3/92 8:05	98	1450
6/3/92 8:05	98	1450
6/3/92 14:00	98	1450
6/3/92 14:00	98	1450
6/4/92 8:00	99	1450
6/4/92 8:00	99	1450
6/4/92 8:05	99	1450
6/4/92 8:05	99	1450
6/4/92 14:00	99	1450
6/4/92 14:00	99	1450
6/4/92 14:00	99	1450
6/5/92 8:00	100	1450
6/5/92 8:00	100	1450
6/5/92 8:05	100	1450
6/5/92 8:05	100	1450
6/6/92 16:00	101	1450
6/6/92 16:00	101	1450
6/6/92 16:00	101	1450
6/6/92 16:05	101	1450
6/6/92 16:05	101	1450
6/7/92 11:00	102	1450
6/7/92 11:00	102	1450
6/7/92 11:05	102	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
6/7/92 11:05	102	1450	
6/8/92 8:00	103	1450	
6/8/92 8:00	103	1450	
6/8/92 8:05	103	1450	
6/8/92 8:05	103	1450	
6/10/92 8:00	105	1450	
6/10/92 8:00	105	1450	
6/10/92 8:00	105	1450	
6/10/92 8:05	105	1450	
6/10/92 8:05	105	1450	
6/10/92 14:00	105	1450	
6/10/92 14:00	105	1450	
6/11/92 8:00	106	1450	
6/11/92 8:00	106	1450	
6/11/92 8:05	106	1450	
6/11/92 8:05	106	1450	
6/11/92 8:05	106	1450	
6/11/92 14:00	106	1450	
6/11/92 14:00	106	1450	
6/11/92 14:00	106	1450	
6/12/92 8:00	107	1450	
6/12/92 8:00	107	1450	
6/12/92 8:00	107	1450	
6/12/92 8:00	107	1450	
6/12/92 8:00	107	1450	
6/12/92 12:00	107	1450	
6/12/92 12:00	107	1450	
6/13/92 12:00	108	1450	
6/13/92 12:00	108	1450	
6/13/92 12:00	108	1450	
6/13/92 12:00	108	1450	
6/13/92 12:00	108	1450	
6/13/92 12:00	108	1450	
6/13/92 12:00	108	1450	
6/14/92 13:00	109	1450	
6/14/92 13:00	109	1450	
6/14/92 13:00	109	1450	
6/14/92 13:00	109	1450	
6/15/92 9:30	110	1450	
6/15/92 9:30	110	1450	
6/15/92 9:35	#VALUE!	1450	
6/15/92 9:35	#VALUE!	1450	
6/15/92 15:00	110	1450	
6/15/92 15:00	110	1450	
6/16/92 8:00	111	1450	
6/16/92 8:00	111	1450	
6/16/92 8:05	111	1450	
6/16/92 8:05	111	1450	
6/16/92 14:00	111	1450	
6/16/92 14:00	111	1450	
6/17/92 8:00	112	1450	
6/17/92 8:00	112	1450	
6/17/92 8:00	112	1450	

DATE	DAYS	TEMP F	C_OTEMP.XLS
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6/17/92 8:00	112	1450
6/17/92 8:05	112	1450
6/17/92 8:05	112	1450
6/17/92 13:00	112	1450
6/17/92 13:00	112	1450
6/18/92 8:00	113	1450
6/18/92 8:00	113	1450
6/18/92 8:05	113	1450
6/18/92 8:05	113	1450
6/18/92 16:25	113	1450
6/18/92 16:25	113	1450
6/19/92 9:08	114	1450
6/19/92 9:08	114	1450
6/19/92 9:08	114	1450
6/19/92 9:21	114	1450
6/19/92 9:21	114	1450
6/19/92 12:15	114	1450
6/19/92 12:15	114	1450
6/23/92 8:30	118	1450
6/23/92 8:30	118	1450
6/23/92 8:30	118	1450
6/23/92 8:30	118	1450
6/23/92 13:30	118	1450
6/23/92 13:30	118	1450
6/24/92 8:00	119	1450
6/24/92 8:00	119	1450
6/24/92 8:00	119	1450
6/24/92 8:00	119	1450
6/24/92 8:00	119	1450
6/24/92 8:00	119	1450
6/24/92 12:00	119	1450
6/24/92 12:00	119	1450
6/25/92 8:00	120	1500
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6/25/92 8:00	120	1500
6/25/92 12:30	120	1500
6/25/92 12:30	120	1500
6/26/92 8:30	121	1500
6/26/92 8:30	121	1500
6/26/92 8:30	121	1500
6/26/92 8:30	121	1500
6/26/92 8:30	121	1500
6/26/92 13:00	121	1500
6/26/92 13:00	121	1500
6/27/92 11:30	122	1500
6/27/92 11:30	122	1500
6/27/92 11:30	122	1500
6/27/92 11:30	122	1500
6/27/92 11:30	122	1500
6/28/92 11:30	123	1500
6/28/92 11:30	123	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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6/28/92 11:30	123	1500
6/28/92 11:30	123	1500
6/28/92 11:30	123	1500
6/29/92 7:30	124	1500
6/29/92 7:30	124	1500
6/29/92 7:35	124	1500
6/29/92 7:35	124	1500
6/29/92 13:00	124	1500
6/29/92 13:00	124	1500
6/30/92 9:00	125	1500
6/30/92 9:00	125	1500
6/30/92 9:05	125	1500
6/30/92 9:05	125	1500
6/30/92 14:00	125	1500
6/30/92 14:00	125	1500
7/1/92 9:30	126	1500
7/1/92 9:30	126	1500
7/1/92 9:30	126	1500
7/1/92 9:35	126	1500
7/1/92 9:35	126	1500
7/1/92 14:00	126	1500
7/1/92 14:00	126	1500
7/1/92 14:00	126	1500
7/2/92 8:00	127	1500
7/2/92 8:00	127	1500
7/2/92 8:05	127	1500
7/2/92 8:05	127	1500
7/2/92 13:30	127	1500
7/2/92 13:30	127	1500
7/3/92 8:00	128	1500
7/3/92 8:00	128	1500
7/3/92 8:00	128	1500
7/3/92 8:05	128	1500
7/3/92 8:05	128	1500
7/3/92 12:00	128	1500
7/3/92 12:00	128	1500
7/3/92 12:00	128	1500
7/4/92 11:00	129	1500
7/4/92 11:00	129	1500
7/4/92 11:05	129	1500
7/4/92 11:05	129	1500
7/5/92 11:00	130	1500
7/5/92 11:00	130	1500
7/5/92 11:05	130	1500
7/5/92 11:05	130	1500
7/6/92 9:00	131	1500
7/6/92 9:00	131	1500
7/6/92 9:05	131	1500
7/6/92 9:05	131	1500
7/6/92 9:05	131	1500
7/6/92 15:00	131	1500
7/6/92 15:00	131	1500

DATE DAYS TEMP F C_OTEMP.XLS

7/6/92 15:00	131	1500
7/7/92 9:30	132	1500
7/7/92 9:30	132	1500
7/7/92 9:35	132	1500
7/7/92 9:35	132	1500
7/7/92 13:30	#VALUE!	1500
7/7/92 13:30	#VALUE!	1500
7/8/92 8:00	133	1475
7/8/92 8:00	133	1475
7/8/92 8:05	133	1475
7/8/92 8:05	133	1475
7/8/92 15:00	133	1475
7/8/92 15:00	133	1475
7/9/92 9:00	134	1475
7/9/92 9:00	134	1475
7/9/92 9:05	134	1475
7/9/92 9:05	134	1475
7/9/92 14:00	134	1475
7/9/92 14:00	134	1475
7/10/92 10:00	135	1475
7/10/92 10:00	135	1475
7/10/92 10:05	135	1475
7/10/92 10:05	135	1475
7/10/92 13:00	135	1475
7/10/92 13:00	135	1475
7/11/92 9:30	136	1475
7/11/92 9:30	136	1475
7/11/92 9:35	136	1475
7/11/92 9:35	136	1475
7/11/92 9:35	136	1475
7/12/92 10:15	137	1475
7/12/92 10:15	137	1475
7/12/92 10:24	137	1475
7/12/92 10:24	137	1475
7/13/92 8:40	138	1475
7/13/92 8:40	138	1475
7/13/92 8:43	138	1475
7/13/92 8:43	138	1475
7/13/92 13:35	138	1475
7/13/92 13:35	138	1475
7/14/92 8:40	139	1475
7/14/92 8:40	139	1475
7/14/92 8:43	139	1475
7/14/92 8:43	139	1475
7/14/92 13:25	139	1475
7/14/92 13:25	139	1475
7/15/92 8:11	140	1475
7/15/92 8:11	140	1475
7/15/92 8:11	140	1475
7/15/92 8:15	140	1475
7/15/92 8:15	140	1475
7/15/92 8:15	140	1475

DATE	DAYS	TEMP F	C_OTEMP.XLS
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7/15/92 13:31	140	1475
7/15/92 13:31	140	1475
7/16/92 8:10	141	1475
7/16/92 8:10	141	1475
7/16/92 8:14	141	1475
7/16/92 8:14	141	1475
7/16/92 13:58	141	1475
7/16/92 13:58	141	1475
7/17/92 9:45	142	1475
7/17/92 9:45	142	1475
7/17/92 9:45	142	1475
7/17/92 9:50	142	1475
7/17/92 9:50	142	1475
7/17/92 13:29	142	1475
7/17/92 13:29	142	1475
7/18/92 8:05	143	1475
7/18/92 8:05	143	1475
7/18/92 8:10	143	1475
7/18/92 8:10	143	1475
7/19/91 8:02	-222	1475
7/19/91 8:02	-222	1475
7/19/92 8:10	144	1475
7/19/92 8:10	144	1475
7/20/92 7:45	145	1475
7/20/92 7:45	145	1475
7/20/92 7:51	145	1475
7/20/92 7:51	145	1475
7/20/92 7:51	145	1475
7/20/92 13:00	145	1475
7/20/92 13:00	145	1475
7/21/92 9:10	146	1475
7/21/92 9:10	146	1475
7/21/92 9:15	146	1475
7/21/92 9:15	146	1475
7/21/92 13:30	146	1475
7/21/92 13:30	146	1475
7/21/92 13:30	146	1475
7/22/92 8:39	147	1475
7/22/92 8:39	147	1475
7/22/92 8:44	147	1475
7/22/92 8:44	147	1475
7/22/92 13:35	147	1475
7/22/92 13:35	147	1475
7/23/92 8:02	148	1475
7/23/92 8:02	148	1475
7/23/92 8:07	148	1475
7/23/92 8:07	148	1475
7/23/92 13:30	148	1475
7/23/92 13:30	148	1475
7/24/92 7:50	149	1475
7/24/92 7:50	149	1475
7/24/92 7:50	149	1475

DATE	DAYS	TEMP F	C_OTEMP.XLS
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7/24/92 7:55	149	1475
7/24/92 7:55	149	1475
7/24/92 13:00	149	1475
7/24/92 13:00	149	1475
7/25/92 8:10	150	1500
7/25/92 8:10	150	1500
7/25/92 8:15	150	1500
7/25/92 8:15	150	1500
7/26/92 9:30	151	1500
7/26/92 9:30	151	1500
7/26/92 9:34	151	1500
7/26/92 9:34	151	1500
7/27/92 8:00	152	1500
7/27/92 8:00	152	1500
7/27/92 8:00	152	1500
7/27/92 8:05	152	1500
7/27/92 8:05	152	1500
7/27/92 13:00	152	1500
7/27/92 13:00	152	1500
7/28/92 10:00	153	1500
7/28/92 10:00	153	1500
7/28/92 10:05	153	1500
7/28/92 10:05	153	1500
7/28/92 12:00	153	1500
7/28/92 12:00	153	1500
7/29/92 9:00	154	1500
7/29/92 9:00	154	1500
7/29/92 9:00	154	1500
7/29/92 9:05	154	1500
7/29/92 9:05	154	1500
7/29/92 13:00	154	1500
7/29/92 13:00	154	1500
7/30/92 7:00	155	1500
7/30/92 7:00	155	1500
7/30/92 7:05	155	1500
7/30/92 7:05	155	1500
7/30/92 7:05	155	1500
7/30/92 12:00	155	1500
7/30/92 12:00	155	1500
7/31/92 9:00	156	1500
7/31/92 9:00	156	1500
7/31/92 9:00	156	1500
7/31/92 9:05	156	1500
7/31/92 9:05	156	1500
7/31/92 12:00	156	1500
7/31/92 12:00	156	1500
8/6/92 8:00	162	1500
8/6/92 8:00	162	1500
8/6/92 8:05	162	1500
8/6/92 8:05	162	1500
8/6/92 12:00	162	1500
8/6/92 12:00	162	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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8/7/92 8:20	163	1500
8/7/92 8:20	163	1500
8/7/92 8:25	163	1500
8/7/92 8:25	163	1500
8/7/92 13:22	163	1500
8/7/92 13:22	163	1500
8/8/92 9:30	164	1500
8/8/92 9:30	164	1500
8/8/92 9:35	164	1500
8/8/92 9:35	164	1500
8/9/92 8:00	165	1500
8/9/92 8:00	165	1500
8/9/92 8:05	165	1500
8/9/92 8:05	165	1500
8/10/92 7:35	166	1500
8/10/92 7:35	166	1500
8/10/92 7:35	166	1500
8/10/92 7:40	166	1500
8/10/92 7:40	166	1500
8/10/92 13:20	166	1500
8/10/92 13:20	166	1500
8/11/92 8:00	167	1500
8/11/92 8:00	167	1500
8/11/92 8:00	167	1500
8/11/92 8:05	167	1500
8/11/92 8:05	167	1500
8/11/92 13:00	167	1500
8/11/92 13:00	167	1500
8/12/92 7:50	168	1500
8/12/92 7:50	168	1500
8/12/92 7:55	168	1500
8/12/92 7:55	168	1500
8/12/92 12:26	168	1500
8/12/92 12:26	168	1500
8/12/92 12:26	168	1500
8/13/92 8:20	169	1500
8/13/92 8:20	169	1500
8/13/92 8:25	169	1500
8/13/92 8:25	169	1500
8/13/92 15:00	169	1500
8/13/92 15:00	169	1500
8/14/92 8:15	170	1500
8/14/92 8:15	170	1500
8/14/92 8:20	170	1500
8/14/92 8:20	170	1500
8/14/92 13:00	170	1500
8/14/92 13:00	170	1500
8/14/92 13:00	170	1500
8/15/92 8:20	171	1500
8/15/92 8:20	171	1500
8/15/92 8:25	171	1500
8/15/92 8:25	171	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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8/16/92 8:15	172	1500
8/16/92 8:15	172	1500
8/16/92 8:20	172	1500
8/16/92 8:20	172	1500
8/17/92 9:00	173	1500
8/17/92 9:00	173	1500
8/17/92 9:00	173	1500
8/17/92 9:00	173	1500
8/17/92 9:05	173	1500
8/17/92 9:05	173	1500
8/17/92 14:30	173	1500
8/17/92 14:30	173	1500
8/18/92 8:25	174	1500
8/18/92 8:25	174	1500
8/18/92 8:30	174	1500
8/18/92 8:30	174	1500
8/18/92 14:00	174	1500
8/18/92 14:00	174	1500
8/19/92 8:10	175	1500
8/19/92 8:10	175	1500
8/20/92 17:00	176	1500
8/20/92 17:00	176	1500
8/20/92 17:05	176	1500
8/20/92 17:05	176	1500
8/20/92 17:05	176	1500
8/20/92 17:05	176	1500
8/21/92 8:00	177	1500
8/21/92 8:00	177	1500
8/21/92 8:05	177	1500
8/21/92 8:05	177	1500
8/21/92 13:30	177	1500
8/21/92 13:30	177	1500
8/22/92 9:30	178	1500
8/22/92 9:30	178	1500
8/22/92 9:35	178	1500
8/22/92 9:35	178	1500
8/22/92 9:35	178	1500
8/23/92 10:00	179	1500
8/23/92 10:00	179	1500
8/23/92 10:05	179	1500
8/23/92 10:05	179	1500
8/24/92 8:16	180	1500
8/24/92 8:16	180	1500
8/24/92 8:21	180	1500
8/24/92 8:21	180	1500
8/24/92 8:21	180	1500
8/24/92 13:30	180	1500
8/24/92 13:30	180	1500
8/25/92 8:50	181	1500
8/25/92 8:50	181	1500
8/25/92 9:00	181	1500
8/25/92 9:00	181	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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8/25/92 14:00	181	1500
8/25/92 14:00	181	1500
8/26/92 8:30	182	1500
8/26/92 8:30	182	1500
8/26/92 8:35	182	1500
8/26/92 8:35	182	1500
8/26/92 8:35	182	1500
8/26/92 13:30	182	1500
8/26/92 13:30	182	1500
8/27/92 8:00	183	1500
8/27/92 8:00	183	1500
8/27/92 8:05	183	1500
8/27/92 8:05	183	1500
8/27/92 13:30	183	1500
8/27/92 13:30	183	1500
8/27/92 13:30	183	1500
8/28/92 8:30	184	1500
8/28/92 8:30	184	1500
8/28/92 8:35	184	1500
8/28/92 8:35	184	1500
8/28/92 13:00	184	1500
8/28/92 13:00	184	1500
8/28/92 13:00	184	1500
8/29/92 9:00	185	1500
8/29/92 9:00	185	1500
8/29/92 9:05	185	1500
8/29/92 9:05	185	1500
8/30/92 9:00	186	1500
8/30/92 9:00	186	1500
8/30/92 9:05	186	1500
8/30/92 9:05	186	1500
8/31/92 8:30	187	1500
8/31/92 8:30	187	1500
8/31/92 8:35	187	1500
8/31/92 8:35	187	1500
8/31/92 13:00	187	1500
8/31/92 13:00	187	1500
9/1/92 21:25	188	1500
9/1/92 21:25	188	1500
9/1/92 21:30	188	1500
9/1/92 21:30	188	1500
9/2/92 9:31	189	1500
9/2/92 9:31	189	1500
9/2/92 9:31	189	1500
9/2/92 9:31	189	1500
9/2/91 9:36	-177	1500
9/2/91 9:36	-177	1500
9/2/91 13:30	-177	1500
9/2/91 13:30	-177	1500
9/3/92 8:00	190	1500
9/3/92 8:00	190	1500
9/3/92 8:05	190	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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9/3/92 8:05	190	1500
9/3/92 13:40	190	1500
9/3/92 13:40	190	1500
9/4/92 8:30	191	1500
9/4/92 8:30	191	1500
9/4/92 8:35	191	1500
9/4/92 8:35	191	1500
9/4/92 12:00	191	1500
9/4/92 12:00	191	1500
9/5/92 13:00	192	1500
9/5/92 13:00	192	1500
9/5/92 13:00	192	1500
9/5/92 13:05	192	1500
9/5/92 13:05	192	1500
9/6/92 9:55	193	1500
9/6/92 9:55	193	1500
9/6/92 9:55	193	1500
9/6/92 10:00	193	1500
9/6/92 10:00	193	1500
9/7/92 10:00	194	1500
9/7/92 10:00	194	1500
9/7/92 10:05	194	1500
9/7/92 10:05	194	1500
9/7/92 12:30	194	1500
9/7/92 12:30	194	1500
9/8/92 8:55	195	1500
9/8/92 8:55	195	1500
9/8/92 8:55	195	1500
9/8/92 9:00	195	1500
9/8/92 9:00	195	1500
9/8/92 12:55	195	1500
9/8/92 12:55	195	1500
9/9/92 8:55	196	1500
9/9/92 8:55	196	1500
9/9/92 9:00	196	1500
9/9/92 9:00	196	1500
9/9/92 12:00	196	1500
9/9/92 12:00	196	1500
9/9/92 12:00	196	1500
9/10/92 8:00	197	1500
9/10/92 8:00	197	1500
9/10/92 8:05	197	1500
9/10/92 8:05	197	1500
9/10/92 12:00	197	1500
9/10/92 12:00	197	1500
9/10/92 12:00	197	1500
9/11/92 8:00	198	1500
9/11/92 8:00	198	1500
9/11/92 8:05	198	1500
9/11/92 8:05	198	1500
9/11/92 12:00	198	1500
9/11/92 12:00	198	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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9/11/92 12:00	198	1500
9/12/92 9:00	199	1500
9/12/92 9:00	199	1500
9/12/92 9:05	199	1500
9/12/92 9:05	199	1500
9/13/92 9:00	200	1500
9/13/92 9:00	200	1500
9/13/92 9:05	200	1500
9/13/92 9:05	200	1500
9/14/92 9:00	201	1500
9/14/92 9:00	201	1500
9/14/92 9:00	201	1500
9/14/92 9:05	201	1500
9/14/92 9:05	201	1500
9/14/92 9:05	201	1500
9/14/92 16:05	201	1500
9/14/92 16:05	201	1500
9/15/92 9:00	202	1500
9/15/92 9:00	202	1500
9/15/92 9:05	202	1500
9/15/92 9:05	202	1500
9/15/92 13:00	202	1500
9/15/92 13:00	202	1500
9/16/92 9:40	203	1500
9/16/92 9:40	203	1500
9/16/92 9:45	203	1500
9/16/92 9:45	203	1500
9/16/92 13:45	203	1500
9/16/92 13:45	203	1500
9/16/92 13:45	203	1500
9/17/92 8:30	204	1500
9/17/92 8:30	204	1500
9/17/92 8:30	204	1500
9/17/92 8:35	204	1500
9/17/92 8:35	204	1500
9/17/92 14:00	204	1500
9/17/92 14:00	204	1500
9/18/92 9:00	205	1500
9/18/92 9:00	205	1500
9/18/92 9:05	205	1500
9/18/92 9:05	205	1500
9/18/92 9:05	205	1500
9/18/92 13:30	205	1500
9/18/92 13:30	205	1500
9/19/92 9:00	206	1500
9/19/92 9:00	206	1500
9/19/92 9:05	206	1500
9/19/92 9:05	206	1500
9/19/92 9:05	206	1500
9/20/92 10:30	207	1500
9/20/92 10:30	207	1500
9/20/90 10:35	-524	1500

DATE	DAYS	TEMP F	C_OTEMP.XLS
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9/20/90 10:35	-524	1500
9/21/92 10:00	208	1500
9/21/92 10:00	208	1500
9/21/92 10:05	208	1500
9/21/92 10:05	208	1500
9/21/92 14:00	208	1500
9/21/92 14:00	208	1500
9/22/92 8:30	209	1500
9/22/92 8:30	209	1500
9/22/92 8:30	209	1500
9/22/92 8:35	209	1500
9/22/92 8:35	209	1500
9/22/92 8:35	209	1500
9/22/92 13:00	209	1500
9/22/92 13:00	209	1500
9/23/92 8:30	210	1500
9/23/92 8:30	210	1500
9/23/92 8:35	210	1500
9/23/92 8:35	210	1500
9/23/92 13:00	210	1500
9/23/92 13:00	210	1500
9/24/92 8:15	211	1500
9/24/92 8:15	211	1500
9/24/92 8:20	211	1500
9/24/92 8:20	211	1500
9/24/92 13:00	211	1500
9/24/92 13:00	211	1500
9/24/92 13:00	211	1500
9/27/92 8:30	214	1500
9/27/92 8:30	214	1500
9/27/92 8:35	214	1500
9/27/92 8:35	214	1500
9/28/92 8:00	215	1500
9/28/92 8:00	215	1500
9/28/92 8:05	215	1500
9/28/92 8:05	215	1500
9/28/92 13:00	215	1500
9/28/92 13:00	215	1500
9/29/92 8:30	216	1500
9/29/92 8:30	216	1500
9/29/92 8:30	216	1500
9/29/92 8:35	216	1500
9/29/92 8:35	216	1500
9/29/92 14:30	216	1500
9/29/92 14:30	216	1500
10/1/92 9:30	218	1500
10/1/92 9:30	218	1500
10/1/92 9:35	218	1500
10/1/92 9:35	218	1500
10/1/92 14:00	218	1450
10/1/92 14:00	218	1450
10/2/92 8:30	219	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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10/2/92 8:30	219	1450
10/2/92 8:35	219	1450
10/2/92 8:35	219	1450
10/2/92 13:00	219	1450
10/2/92 13:00	219	1450
10/2/92 13:00	219	1450
10/3/92 9:30	220	1450
10/3/92 9:30	220	1450
10/3/92 9:35	220	1450
10/3/92 9:35	220	1450
10/4/92 8:28	221	1500
10/4/92 8:28	221	1500
10/4/92 8:28	221	1500
10/4/92 8:30	221	1500
10/4/92 8:30	221	1500
10/5/92 8:30	222	1450
10/5/92 8:30	222	1450
10/5/92 8:35	222	1450
10/5/92 8:35	222	1450
10/5/92 13:30	222	1450
10/5/92 13:30	222	1450
10/6/92 9:00	223	1450
10/6/92 9:00	223	1450
10/6/92 9:00	223	1450
10/6/92 9:05	223	1450
10/6/92 9:05	223	1450
10/6/92 13:30	223	1450
10/6/92 13:30	223	1450
10/7/92 9:00	224	1450
10/7/92 9:00	224	1450
10/7/92 9:05	224	1450
10/7/92 9:05	224	1450
10/7/92 13:30	224	1450
10/7/92 13:30	224	1450
10/7/92 13:30	224	1450
10/8/92 9:30	225	1450
10/8/92 9:30	225	1450
10/8/92 9:35	225	1450
10/8/92 9:35	225	1450
10/8/92 14:00	225	1450
10/8/92 14:00	225	1450
10/9/92 9:00	226	1450
10/9/92 9:00	226	1450
10/9/92 9:05	226	1450
10/9/92 9:05	226	1450
10/9/92 13:30	226	1450
10/9/92 13:30	226	1450
10/10/92 10:30	227	1450
10/10/92 10:30	227	1450
10/10/92 10:35	227	1450
10/10/92 10:35	227	1450
10/11/92 9:30	228	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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10/11/92 9:30	228	1450
10/11/92 9:35	228	1450
10/11/92 9:35	228	1450
10/15/92 10:00	232	1450
10/15/92 10:00	232	1450
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10/16/92 9:00	233	1450
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10/22/92 9:05	239	1450
10/22/92 12:00	239	1450
10/22/92 12:00	239	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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10/22/92 12:00	239	1450
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10/23/92 9:35	240	1450
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10/24/92 17:00	241	1450
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10/25/92 9:07	242	1450
10/25/92 9:09	242	1450
10/25/92 9:09	242	1450
10/25/92 15:00	242	1450
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10/29/92 13:00	246	1450
10/30/92 10:25	247	1450
10/30/92 10:25	247	1450
10/30/92 10:32	247	1450
10/30/92 10:32	247	1450
10/30/92 18:00	247	1450
10/30/92 18:00	247	1450
10/31/92 11:00	248	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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10/31/92 11:00	248	1450
10/31/92 11:00	248	1450
10/31/92 11:05	248	1450
10/31/92 11:05	248	1450
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11/7/92 9:35	255	1450
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11/8/92 10:30	256	1450
11/8/92 10:30	256	1450
11/8/92 10:30	256	1450
11/8/92 10:33	256	1450
11/9/92 9:30	257	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
11/9/92 9:30	257	1450	
11/9/92 9:35	257	1450	
11/9/92 9:35	257	1450	
11/9/92 13:30	257	1450	
11/9/92 13:30	257	1450	
11/10/92 10:00	258	1450	
11/10/92 10:00	258	1450	
11/10/92 10:05	258	1450	
11/10/92 10:05	258	1450	
11/10/92 14:00	258	1450	
11/10/92 14:00	258	1450	
11/11/92 19:32	259	1450	
11/11/92 19:32	259	1450	
11/11/92 19:34	259	1450	
11/11/92 19:34	259	1450	
11/12/92 9:30	260	1450	
11/12/92 9:30	260	1450	
11/12/92 9:30	260	1450	
11/12/92 9:30	260	1450	
11/12/92 9:35	260	1450	
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11/13/92 9:30	261	1450	
11/13/92 9:35	261	1450	
11/13/92 9:35	261	1450	
11/13/92 13:00	261	1450	
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11/14/92 15:00	262	1450	
11/14/92 15:00	262	1450	
11/14/92 15:05	262	1450	
11/14/92 15:05	262	1450	
11/15/92 13:00	263	1450	
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11/15/92 13:05	263	1450	
11/16/92 9:30	264	1450	
11/16/92 9:30	264	1450	
11/16/92 9:35	264	1450	
11/16/92 9:35	264	1450	
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11/16/92 13:00	264	1450	
11/17/92 10:00	265	1450	
11/17/92 10:00	265	1450	
11/17/92 10:00	265	1450	
11/17/92 10:00	265	1450	
11/17/92 10:05	265	1450	
11/17/92 10:05	265	1450	
11/17/92 14:30	265	1450	
11/17/92 14:30	265	1450	
11/18/92 9:00	266	1450	

DATE	DAYS	TEMP F	C_OTEMP.XLS
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11/18/92 9:00	266	1450
11/18/92 9:05	266	1450
11/18/92 9:05	266	1450
11/18/92 13:00	266	1450
11/18/92 13:00	266	1450
11/19/92 9:00	267	1450
11/19/92 9:00	267	1450
11/19/92 9:05	267	1450
11/19/92 9:05	267	1450
11/19/92 13:00	267	1450
11/19/92 13:00	267	1450
11/20/92 10:00	268	1450
11/20/92 10:00	268	1450
11/20/92 10:05	268	1450
11/20/92 10:05	268	1450
11/20/92 14:00	268	1450
11/20/92 14:00	268	1450
11/21/92 12:00	269	1450
11/21/92 12:00	269	1450
11/21/92 12:00	269	1450
11/21/92 12:00	269	1450
11/21/92 12:05	269	1450
11/21/92 12:05	269	1450
11/22/92 12:00	270	1450
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11/23/92 9:35	271	1450
11/23/92 9:35	271	1450
11/23/92 13:00	271	1450
11/23/92 13:00	271	1450
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11/24/92 9:30	272	1450
11/24/92 9:35	272	1450
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11/24/92 13:00	272	1450
11/24/92 13:00	272	1450
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11/25/92 9:30	273	1450
11/25/92 9:33	273	1450
11/25/92 9:33	273	1450
11/25/92 12:30	273	1450
11/25/92 12:30	273	1450
11/27/92 9:00	275	1450
11/27/92 9:00	275	1450
11/27/92 9:03	275	1450
11/27/92 9:03	275	1450
11/27/92 13:00	275	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
11/27/92 13:00	275	1450	
11/28/92 16:00	276	1450	
11/28/92 16:00	276	1450	
11/28/92 16:00	276	1450	
11/28/92 16:03	276	1450	
11/28/92 16:03	276	1450	
11/28/92 16:03	276	1450	
11/29/92 12:00	277	1450	
11/29/92 12:00	277	1450	
11/29/92 12:03	277	1450	
11/29/92 12:03	277	1450	
11/30/92 9:30	278	1450	
11/30/92 9:30	278	1450	
11/30/92 9:35	278	1450	
11/30/92 9:35	278	1450	
11/30/92 14:00	278	1450	
11/30/92 14:00	278	1450	
11/30/92 14:00	278	1450	
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12/1/92 9:30	279	1450	
12/1/92 9:30	279	1450	
12/1/92 9:35	279	1450	
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12/1/92 14:00	279	1450	
12/1/92 14:00	279	1450	
12/4/92 10:30	282	1450	
12/4/92 10:30	282	1450	
12/4/92 10:33	282	1450	
12/4/92 10:33	282	1450	
12/4/92 15:30	282	1450	
12/4/92 15:30	282	1450	
12/5/92 11:03	283	1450	
12/5/92 11:03	283	1450	
12/5/92 11:03	283	1450	
12/5/92 11:05	283	1450	
12/5/92 11:05	283	1450	
12/6/92 18:00	284	1450	
12/6/92 18:00	284	1450	
12/6/92 18:03	284	1450	
12/6/92 18:03	284	1450	
12/7/92 10:30	285	1450	
12/7/92 10:30	285	1450	
12/7/92 10:33	285	1450	
12/7/92 10:33	285	1450	
12/7/92 10:33	285	1450	
12/7/92 15:00	285	1450	
12/7/92 15:00	285	1450	
12/7/92 15:00	285	1450	
12/8/92 10:00	286	1450	
12/8/92 10:00	286	1450	
12/8/92 10:03	286	1450	
12/8/92 10:03	286	1450	

DATE

DAYS

TEMP F

C_OTEMP.XLS

12/8/92 14:00	286	1450
2/8/92 1400	#VALUE!	1450
12/9/92 9:30	287	1450
12/9/92 9:30	287	1450
12/9/92 9:33	287	1450
12/9/92 9:33	287	1450
12/9/92 13:30	287	1450
12/9/92 13:30	287	1450
12/9/92 13:30	287	1450
12/10/92 8:30	288	1450
12/10/92 8:30	288	1450
12/10/92 8:30	288	1450
12/10/92 8:33	288	1450
12/10/92 8:33	288	1450
12/10/92 14:00	288	1450
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12/11/92 9:00	289	1450
12/11/92 9:00	289	1450
12/11/92 9:03	289	1450
12/11/92 9:03	289	1450
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12/14/92 15:00	292	1450
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12/15/92 9:33	293	1450
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12/16/92 9:05	294	1450
12/16/92 9:05	294	1450
12/16/92 14:00	294	1450
12/16/92 14:00	294	1450
12/16/92 14:00	294	1450
12/17/92 9:00	295	1450
12/17/92 9:00	295	1450
12/17/92 9:03	295	1450
12/17/92 9:03	295	1450
12/17/92 13:00	295	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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12/17/92 13:00	295	1450
12/18/92 9:30	296	1450
12/18/92 9:30	296	1450
12/18/92 9:33	296	1450
12/18/92 9:33	296	1450
12/18/92 13:00	296	1450
12/18/92 13:00	296	1450
12/19/92 17:30	297	1450
12/19/92 17:30	297	1450
12/19/92 17:30	297	1450
12/19/92 17:33	297	1450
12/19/92 17:33	297	1450
12/20/92 10:30	298	1450
12/20/92 10:30	298	1450
12/20/92 10:35	298	1450
12/20/92 10:35	298	1450
12/21/92 10:00	299	1450
12/21/92 10:00	299	1450
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12/24/92 10:35	302	1450
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12/24/92 12:30	302	1450
12/26/92 13:00	304	1450
12/26/92 13:00	304	1450
12/26/92 13:00	304	1450
12/26/92 13:00	304	1450
12/27/92 12:30	305	1450
12/27/92 12:30	305	1450
12/28/92 16:30	306	1450
12/28/92 16:30	306	1450
12/28/92 16:35	306	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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12/28/92 16:35	306	1450
12/29/92 11:00	307	1450
12/29/92 11:00	307	1450
12/29/92 11:03	307	1450
12/29/92 11:03	307	1450
12/29/92 14:00	307	1450
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12/30/92 10:00	308	1450
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12/31/92 11:00	309	1450
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1/6/93 9:35	315	1450
1/6/93 9:35	315	1450
1/6/93 14:30	315	1450
1/6/93 14:30	315	1450
1/7/93 10:00	316	1450
1/7/93 10:00	316	1450

DATE	DAYS	TEMP F	C_OTEMP.XLS
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1/7/93 10:03	316	1450
1/7/93 10:03	316	1450
1/7/93 13:30	316	1450
1/7/93 13:30	316	1450
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1/8/93 9:30	317	1450
1/8/93 9:35	317	1450
1/8/93 9:35	317	1450
1/8/93 9:35	317	1450
1/8/93 13:30	317	1450
1/8/93 13:30	317	1450
1/9/93 12:00	318	1450
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1/9/93 12:03	318	1450
1/9/93 12:03	318	1450
1/10/93 14:30	319	1450
1/10/93 14:30	319	1450
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1/10/93 14:35	319	1450
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1/11/93 14:30	320	1450
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1/12/93 11:30	321	1450
1/12/93 11:30	321	1450
1/12/93 11:30	321	1450
1/12/93 11:35	321	1450
1/12/93 11:35	321	1450
1/12/93 14:30	321	1450
1/12/93 14:30	321	1450
1/13/93 8:30	322	1450
1/13/93 8:30	322	1450
1/13/93 8:33	322	1450
1/13/93 8:33	322	1450
1/14/93 10:30	323	1450
1/14/93 10:30	323	1450
1/14/93 10:30	323	1450
1/14/93 10:35	323	1450
1/14/93 10:35	323	1450
1/15/93 10:30	324	1450
1/15/93 10:30	324	1450
1/15/93 10:35	324	1450
1/15/93 10:35	324	1450
1/26/93 16:00	335	840
1/26/93 16:00	335	840
1/26/93 16:00	335	840
1/26/93 16:03	335	840
1/26/93 16:03	335	840
1/27/93 10:30	336	840

DATE	DAYS	TEMP F	C_OTEMP.XLS
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1/27/93 10:30	338	840
1/27/93 10:33	338	840
1/27/93 10:33	338	840
1/28/93 9:30	337	830
1/28/93 9:30	337	830
1/28/93 9:30	337	830
1/28/93 9:33	337	830
1/28/93 9:33	337	830
1/29/93 8:30	338	850
1/29/93 8:30	338	850
1/29/93 8:30	338	850
1/29/93 8:35	338	850
1/29/93 8:35	338	850
1/31/93 11:00	340	820
1/31/93 11:00	340	820
1/31/93 11:03	340	820
1/31/93 11:03	340	820
2/1/93 10:30	341	820
2/1/93 10:30	341	820
2/1/93 10:33	341	820
2/1/93 10:33	341	820
2/1/93 13:30	341	810
2/1/93 13:30	341	810
2/1/93 13:30	341	810
2/2/93 9:15	342	875
2/2/93 9:15	342	875
2/2/93 9:17	342	875
2/2/93 9:17	342	875
2/2/93 14:00	342	900
2/2/93 14:00	342	900
2/2/93 14:00	342	900
2/3/93 9:30	343	910
2/3/93 9:30	343	910
2/3/93 9:35	343	910
2/3/93 9:35	343	910
2/3/93 15:00	343	910
2/3/93 15:00	343	910
2/4/93 10:00	344	910
2/4/93 10:00	344	910
2/4/93 10:00	344	910
2/4/93 10:03	344	910
2/4/93 10:03	344	910
2/4/93 15:00	344	920
2/4/93 15:00	344	920
2/5/93 10:00	345	830
2/5/93 10:00	345	830
2/5/93 10:03	345	830
2/5/93 10:03	345	830
2/5/93 15:30	345	825
2/5/93 15:30	345	825
2/5/93 15:30	345	825
2/7/93 15:00	347	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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2/7/93 15:00	347	825
2/7/93 15:03	347	825
2/7/93 15:03	347	825
2/8/93 10:30	348	825
2/8/93 10:30	348	825
2/8/93 10:30	348	825
2/8/93 10:33	348	825
2/8/93 10:33	348	820
2/8/93 15:00	348	820
2/8/93 15:00	348	820
2/9/93 10:30	349	820
2/9/93 10:30	349	820
2/9/93 10:33	349	820
2/9/93 10:33	349	820
2/10/93 13:00	350	820
2/10/93 13:00	350	820
2/10/93 13:05	350	820
2/10/93 13:05	350	820
2/11/93 9:00	351	820
2/11/93 9:00	351	820
2/11/93 9:00	351	820
2/11/93 9:03	351	820
2/11/93 9:03	351	820
2/11/93 14:00	351	820
2/11/93 14:00	351	820
2/12/93 10:00	352	820
2/12/93 10:00	352	820
2/12/93 10:03	352	820
2/12/93 10:03	352	820
2/12/93 16:00	352	820
2/12/93 16:00	352	820
2/13/93 11:30	353	820
2/13/93 11:30	353	820
2/13/93 11:33	353	820
2/13/93 11:33	353	820
2/14/93 19:00	354	820
2/14/93 19:00	354	820
2/14/93 19:03	354	820
2/14/93 19:03	354	820
2/15/93 9:00	355	820
2/15/93 9:00	355	820
2/15/93 9:00	355	820
2/15/93 9:00	355	820
2/15/93 9:03	355	820
2/15/93 9:03	355	820
2/15/93 14:30	355	820
2/15/93 14:30	355	820
2/16/93 9:00	356	820
2/16/93 9:00	356	820
2/16/93 9:05	356	820
2/16/93 9:05	356	820
2/16/93 14:30	356	820

DATE	DAYS	TEMP F	C_OTEMP.XLS
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2/16/93 14:30	356	820
2/17/93 9:00	357	820
2/17/93 9:00	357	820
2/17/93 9:05	357	820
2/17/93 9:05	357	820
2/17/93 15:00	357	820
2/17/93 15:00	357	820
2/18/93 10:00	358	820
2/18/93 10:00	358	820
2/18/93 10:05	358	820
2/18/93 10:05	358	820
2/18/93 10:05	358	820
2/18/93 10:05	358	820
2/18/93 14:00	358	820
2/18/93 14:00	358	820
2/19/93 9:30	359	820
2/19/93 9:30	359	820
2/19/93 9:35	359	820
2/19/93 9:35	359	820
2/19/93 14:00	359	820
2/19/93 14:00	359	820
2/19/93 14:00	359	820
2/24/93 11:00	364	820
2/24/93 11:00	364	820
2/24/93 11:05	364	820
2/24/93 11:05	364	820
2/24/93 15:50	364	820
2/24/93 15:50	364	820
2/25/93 9:30	365	820
2/25/93 9:30	365	820
2/25/93 9:33	365	820
2/25/93 9:33	365	820
2/25/93 9:33	365	820
2/25/93 13:55	365	820
2/25/93 13:55	365	820
2/25/93 13:55	365	820
2/26/93 9:30	366	820
2/26/93 9:30	366	820
2/26/93 9:35	366	820
2/26/93 9:35	366	820
2/26/93 13:30	366	820
2/26/93 13:30	366	820
2/27/93 13:00	367	820
2/27/93 13:00	367	820
2/27/93 13:03	367	820
2/27/93 13:03	367	820
2/27/93 13:03	367	820
2/28/93 10:00	368	825
2/28/93 10:00	368	825
2/28/93 10:00	368	825
2/28/93 10:05	368	825
2/28/93 10:05	368	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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2/28/93 15:45	368	825
2/28/93 15:45	368	825
3/1/93 10:00	369	825
3/1/93 10:00	369	825
3/1/93 10:05	369	825
3/1/93 10:05	369	825
3/1/93 15:00	369	825
3/1/93 15:00	369	825
3/2/93 8:30	370	825
3/2/93 8:30	370	825
3/2/93 8:35	370	825
3/2/93 8:35	370	825
3/2/93 15:00	370	825
3/2/93 15:00	370	825
3/3/93 10:00	371	825
3/3/93 10:00	371	825
3/3/93 10:05	371	825
3/3/93 10:05	371	825
3/3/93 10:05	371	825
3/3/93 10:05	371	825
3/3/93 14:00	371	825
3/3/93 14:00	371	825
3/3/93 14:00	371	825
3/4/93 10:00	372	825
3/4/93 10:00	372	825
3/4/93 10:05	372	825
3/4/93 10:05	372	825
3/4/93 13:30	372	825
3/4/93 13:30	372	825
3/4/93 17:00	372	825
3/5/93 9:30	373	825
3/5/93 9:30	373	825
3/5/93 9:35	373	825
3/5/93 9:35	373	825
3/5/93 9:35	373	825
3/5/93 14:30	373	825
3/5/93 14:30	373	825
3/5/93 14:30	373	825
3/6/93 10:00	374	825
3/6/93 10:00	374	825
3/6/93 10:00	374	825
3/6/93 10:03	374	825
3/6/93 10:03	374	825
3/6/93 16:30	374	825
3/6/93 16:30	374	825
3/7/93 13:00	375	825
3/7/93 13:00	375	825
3/7/93 13:03	375	825
3/7/93 13:03	375	825
3/8/93 10:30	376	825
3/8/93 10:30	376	825
3/8/93 10:35	376	825
3/8/93 10:35	376	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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3/8/93 16:00	376	825
3/8/93 16:00	376	825
3/9/93 10:00	377	825
3/9/93 10:00	377	825
3/9/93 10:05	377	825
3/9/93 10:05	377	825
3/9/93 10:05	377	825
3/9/93 14:00	377	825
3/9/93 14:00	377	825
3/9/93 14:00	377	825
3/10/93 9:30	378	825
3/10/93 9:30	378	825
3/10/93 9:33	378	825
3/10/93 9:33	378	825
3/10/93 13:00	378	825
3/10/93 13:00	378	825
3/11/93 8:00	379	825
3/11/93 8:00	379	825
3/11/93 8:03	379	825
3/11/93 8:03	379	825
3/11/93 12:00	379	825
3/11/93 12:00	379	825
3/12/93 10:00	380	825
3/12/93 10:00	380	825
3/12/93 10:00	380	825
3/12/93 10:00	380	825
3/12/93 10:05	380	825
3/12/93 10:05	380	825
3/12/93 14:00	380	825
3/12/93 14:00	380	825
3/13/93 13:00	381	825
3/13/93 13:00	381	825
3/13/93 13:03	381	825
3/13/93 13:03	381	825
3/13/93 13:03	381	825
3/14/93 15:00	382	825
3/14/93 15:00	382	825
3/14/93 15:03	382	825
3/14/93 15:03	382	825
3/14/93 15:03	382	825
3/15/93 14:00	383	825
3/15/93 14:00	383	825
3/15/93 14:05	383	825
3/15/93 14:05	383	825
3/16/93 9:30	384	825
3/16/93 9:30	384	825
3/16/93 9:33	384	825
3/16/93 9:33	384	825
3/16/93 15:30	384	825
3/16/93 15:30	384	825
3/17/93 9:00	385	825
3/17/93 9:00	385	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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3/17/93 9:03	385	825
3/17/93 9:03	385	825
3/17/93 13:00	385	825
3/17/93 13:00	385	825
3/17/93 13:00	385	825
3/18/93 9:00	386	825
3/18/93 9:00	386	825
3/18/93 9:03	386	825
3/18/93 9:03	386	825
3/18/93 9:03	386	825
3/18/93 13:00	386	825
3/18/93 13:00	386	825
3/19/93 10:30	387	825
3/19/93 10:30	387	825
3/19/93 10:30	387	825
3/19/93 10:30	387	825
3/19/93 10:33	387	825
3/19/93 10:33	387	825
3/19/93 14:00	387	825
3/19/93 14:00	387	825
3/20/93 9:30	388	825
3/20/93 9:30	388	825
3/20/93 9:33	388	825
3/20/93 9:33	388	825
3/20/93 13:00	388	825
3/20/93 13:00	388	825
3/21/93 9:30	389	825
3/21/93 9:30	389	825
3/21/93 9:30	389	825
3/21/93 9:33	389	825
3/21/93 9:33	389	825
3/22/93 9:30	390	825
3/22/93 9:30	390	825
3/22/93 9:33	390	825
3/22/93 9:33	390	825
3/22/93 15:00	390	825
3/22/93 15:00	390	825
3/23/93 11:00	391	825
3/23/93 11:00	391	825
3/23/93 11:00	391	825
3/23/93 11:03	391	825
3/23/93 11:03	391	825
3/23/93 15:00	391	825
3/23/93 15:00	391	825
3/24/93 7:00	392	825
3/24/93 7:00	392	825
3/24/93 7:05	392	825
3/24/93 7:05	392	825
3/24/93 16:00	392	825
3/24/93 16:00	392	825
3/24/93 16:00	392	825
3/25/93 9:30	393	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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3/25/93 9:30	393	825
3/25/93 9:30	393	825
3/25/93 9:33	393	825
3/25/93 9:33	393	825
3/25/93 13:30	393	825
3/25/93 13:30	393	825
3/26/93 9:00	394	825
3/26/93 9:00	394	825
3/26/93 9:03	394	825
3/26/93 9:03	394	825
3/26/93 13:00	394	825
3/26/93 13:00	394	825
3/27/93 11:00	395	825
3/27/93 11:00	395	825
3/27/93 11:03	395	825
3/27/93 11:03	395	825
3/28/93 9:00	396	825
3/28/93 9:00	396	825
3/28/93 9:00	396	825
3/28/93 9:03	396	825
3/28/93 9:03	396	825
3/28/93 13:00	396	825
3/28/93 13:00	396	825
3/29/93 10:00	397	825
3/29/93 10:00	397	825
3/29/93 10:05	397	825
3/29/93 10:05	397	825
3/29/93 18:33	397	825
3/29/93 18:33	397	825
3/30/93 9:00	398	825
3/30/93 9:00	398	825
3/30/93 9:03	398	825
3/30/93 9:03	398	825
3/30/93 9:03	398	825
3/30/93 17:00	398	825
3/30/93 17:00	398	825
3/31/93 10:30	399	825
3/31/93 10:30	399	825
3/31/93 10:33	399	825
3/31/93 10:33	399	825
3/31/93 10:33	399	825
3/31/93 13:00	399	825
3/31/93 13:00	399	825
4/1/93 10:00	400	825
4/1/93 10:00	400	825
4/1/93 10:00	400	825
4/1/93 10:05	400	825
4/1/93 10:05	400	825
4/1/93 13:00	400	825
4/1/93 13:00	400	825
4/2/93 10:30	401	825
4/2/93 10:30	401	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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4/2/93 10:33	401	825
4/2/93 10:33	401	825
4/2/93 14:00	401	825
4/2/93 14:00	401	825
4/2/93 14:00	401	825
4/3/93 13:00	402	825
4/3/93 13:00	402	825
4/3/93 13:03	402	825
4/3/93 13:03	402	825
4/3/93 13:03	402	825
4/4/93 14:00	403	825
4/4/93 14:00	403	825
4/4/93 14:03	403	825
4/4/93 14:03	403	825
4/5/93 11:00	404	825
4/5/93 11:00	404	825
4/5/93 11:03	404	825
4/5/93 11:03	404	825
4/5/93 11:03	404	825
4/5/93 16:00	404	825
4/5/93 16:00	404	825
4/6/93 11:30	405	825
4/6/93 11:30	405	825
4/6/93 11:33	405	825
4/6/93 11:33	405	825
4/6/93 13:30	405	825
4/6/93 13:30	405	825
4/7/93 10:00	406	825
4/7/93 10:00	406	825
4/7/93 10:03	406	825
4/7/93 10:03	406	825
4/7/93 10:03	406	825
4/7/93 13:00	406	825
4/7/93 13:00	406	825
4/8/93 10:00	407	825
4/8/93 10:00	407	825
4/8/93 10:05	407	825
4/8/93 10:05	407	825
4/8/93 17:30	407	825
4/8/93 17:30	407	825
4/8/93 17:30	407	825
4/9/93 13:15	408	825
4/9/93 13:15	408	825
4/9/93 13:18	408	825
4/9/93 13:18	408	825
4/9/93 16:00	408	825
4/9/93 16:00	408	825
4/9/93 16:00	408	825
4/10/93 12:00	409	825
4/10/93 12:00	409	825
4/10/93 12:03	409	825
4/10/93 12:03	409	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
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4/11/93 10:30	410	825
4/11/93 10:30	410	825
4/11/93 10:33	410	825
4/11/93 10:33	410	825
4/11/93 20:00	410	825
4/11/93 20:00	410	825
4/12/93 10:08	411	825
4/12/93 10:08	411	825
4/12/93 10:08	411	825
4/12/93 10:11	411	825
4/12/93 10:11	411	825
4/12/93 12:15	411	825
4/12/93 12:15	411	825
4/13/93 11:00	412	825
4/13/93 11:00	412	825
4/13/93 11:03	412	825
4/13/93 11:03	412	825
4/13/93 15:30	412	825
4/13/93 15:30	412	825
4/14/93 11:00	413	825
4/14/93 11:00	413	825
4/14/93 11:00	413	825
4/14/93 11:05	413	825
4/14/93 11:05	413	825
4/14/93 14:00	413	825
4/14/93 14:00	413	825
4/15/93 10:00	414	825
4/15/93 10:00	414	825
4/15/93 10:03	414	825
4/15/93 10:03	414	825
4/15/93 10:03	414	825
4/15/93 10:03	414	825
4/15/93 17:00	414	825
4/15/93 17:00	414	825
4/15/93 17:00	414	825
4/16/93 10:30	415	825
4/16/93 10:30	415	825
4/16/93 10:33	415	825
4/16/93 10:33	415	825
4/16/93 10:33	415	825
4/16/93 16:30	415	825
4/16/93 16:30	415	825
4/17/93 11:00	416	825
4/17/93 11:00	416	825
4/17/93 11:03	416	825
4/17/93 11:03	416	825
4/17/93 13:00	416	825
4/17/93 13:00	416	825
4/18/93 12:00	417	825
4/18/93 12:00	417	825
4/18/93 12:00	417	825
4/18/93 12:05	417	825
4/18/93 12:05	417	825

DATE DAYS TEMP F C_OTEMP.XLS

4/19/93 7:30	418	825
4/19/93 7:30	418	825
4/19/93 7:33	418	825
4/19/93 7:33	418	825
4/19/93 14:30	418	825
4/19/93 14:30	418	825
4/20/93 10:30	419	825
4/20/93 10:30	419	825
4/20/93 10:30	419	825
4/20/93 10:33	419	825
4/20/93 13:00	419	825
4/20/93 13:00	419	825
4/21/93 11:00	420	825
4/21/93 11:00	420	825
4/21/93 11:03	420	825
4/21/93 11:03	420	825
4/21/93 15:00	420	825
4/21/93 15:00	420	825
4/21/93 15:00	420	825
4/22/93 11:30	421	825
4/22/93 11:30	#VALUE!	825
4/22/93 11:33	421	825
4/22/93 11:33	421	825
4/22/93 15:31	421	825
4/22/93 15:31	421	825
4/23/93 10:20	422	825
4/23/93 10:20	422	825
4/23/93 10:23	422	825
4/23/93 10:23	422	825
4/23/93 22:20	422	825
4/23/93 22:20	422	825
4/24/93 12:00	423	825
4/24/93 12:00	423	825
4/24/93 12:10	423	825
4/24/93 12:10	423	825
4/25/93 7:38	#VALUE!	825
4/25/93 7:38	#VALUE!	825
4/25/93 7:42	424	825
4/25/93 7:42	424	825
4/25/93 18:45	424	825
4/25/93 18:45	424	825
4/26/93 9:08	425	825
4/26/93 9:08	425	825
4/26/93 10:45	425	825
4/26/93 10:45	425	825
4/26/93 13:18	425	825
4/26/93 13:18	425	825
4/27/93 7:45	426	825
4/27/93 7:45	426	825
4/27/93 7:45	426	825
4/27/93 7:47	426	825
4/27/93 7:47	426	825

DATE	DAYS	TEMP F	C_OTEMP.XLS
4/27/93 7:47	426	825	
4/27/93 19:15	426	825	
4/27/93 19:15	426	825	
4/28/93 9:13	427	825	
4/28/93 9:13	427	825	
4/28/93 9:15	427	825	
4/28/93 9:15	427	825	
4/28/93 12:10	427	825	
4/28/93 12:10	427	825	
4/28/93 12:12	427	825	
4/28/93 12:12	427	825	
4/29/93 8:15	428	825	
4/29/93 8:15	428	825	
4/29/93 8:18	428	825	
4/29/93 8:18	428	825	
4/29/93 16:08	428	825	
4/29/93 16:08	428	825	
4/29/93 16:08	428	825	
4/30/93 9:12	429	825	
4/30/93 9:12	429	825	
4/30/93 9:15	429	825	
4/30/93 9:15	429	825	
4/30/93 17:26	429	825	
4/30/93 17:26	429	825	

DATE

DAYS

VC (PPM)

VCINFLU.XLS

WSRC DATA & CHART

VC CONCENTRATION AT INFLUENT

DATES	DAYS	VC (PPM)
2/26/92 10:42	0	BDL
2/26/92 10:59	0	BDL
2/26/92 11:20	0	BDL
2/26/92 12:20	0	BDL
2/26/92 13:38	0	BDL
2/26/92 15:20	0	BDL
2/26/92 19:30	0	BDL
2/26/92 23:25	1	BDL
2/27/92 3:20	1	BDL
2/27/92 7:20	1	BDL
2/27/92 11:27	1	BDL
2/27/92 15:22	1	BDL
2/28/92 6:23	2	BDL
2/28/92 18:20	2	BDL
2/29/92 7:05	3	BDL
2/29/92 19:10	3	BDL
3/1/92 3:12	4	BDL
3/1/92 15:05	4	BDL
3/2/92 7:45	5	BDL
3/2/92 19:00	5	BDL
3/5/92 23:45	9	BDL
3/6/92 0:45	9	BDL
3/6/92 2:45	9	BDL
3/6/92 6:45	9	BDL
3/6/92 10:45	9	BDL
3/6/92 14:45	9	BDL
3/6/92 14:46	9	BDL
3/7/92 7:45	10	BDL
3/7/92 16:45	10	BDL
3/8/92 7:45	11	BDL
3/8/92 16:45	11	BDL
3/9/92 7:45	12	BDL
3/9/92 16:45	12	BDL
3/9/92 16:45	12	BDL
3/10/92 7:45	13	BDL
3/10/92 16:45	13	BDL
3/11/92 7:50	14	BDL
3/11/92 16:45	14	BDL
3/12/92 7:50	15	BDL
3/12/92 7:50	15	BDL
3/12/92 15:45	15	BDL
3/13/92 7:45	16	BDL
3/13/92 16:45	16	BDL
3/14/92 7:45	17	BDL

DATE	DAYS	VC (PPM)	VCINFLU.XLS
3/14/92 15:45	17	BDL	
3/15/92 7:30	18	BDL	
3/15/92 16:15	18	BDL	
3/16/92 7:35	19	BDL	
3/16/92 15:50	19	BDL	
3/17/92 7:50	20	BDL	
3/17/92 16:30	20	BDL	
3/18/92 7:55	21	BDL	
3/18/92 17:00	21	BDL	
3/19/92 7:50	22	BDL	
3/19/92 14:30	22	BDL	
3/20/92 8:00	23	BDL	
3/20/92 17:00	23	BDL	
3/21/92 7:45	24	BDL	
3/21/92 16:00	24	BDL	
3/22/92 7:45	25	BDL	
3/22/92 15:45	25	BDL	
3/23/92 7:45	26	BDL	
3/23/92 15:00	26	BDL	
3/24/92 8:00	27	BDL	
3/24/92 8:00	27	BDL	
3/24/92 16:45	27	BDL	
3/25/92 8:00	28	BDL	
3/25/92 16:30	28	BDL	
3/26/92 7:00	29	BDL	
3/26/92 16:00	29	BDL	
3/27/92 8:00	30	BDL	
3/27/92 17:00	30	BDL	
3/28/92 6:55	31	BDL	
3/28/92 14:00	31	BDL	
3/29/92 6:50	32	BDL	
3/29/92 14:55	32	BDL	
4/2/92 15:00	36	BDL	
4/2/92 15:01	36	BDL	
4/2/92 17:00	36	BDL	
4/2/92 19:00	36		17
4/3/92 8:00	37	BDL	
4/3/92 16:05	37	BDL	
4/4/92 6:45	38	BDL	
4/5/92 8:00	39	BDL	
4/5/92 15:00	39	BDL	
4/5/92 15:00	39	BDL	
4/6/92 9:00	40		17
4/6/92 16:00	40	BDL	
4/7/92 9:00	41	BDL	
4/7/92 16:00	41	BDL	
4/8/92 8:55	42	BDL	
4/8/92 16:00	42	BDL	
4/9/92 7:00	43	BDL	
4/9/92 7:00	43	BDL	
4/9/92 16:00	43	BDL	
4/10/92 7:00	44		17

DATE	DAYS	VC (PPM)	VCINFLU.XLS
4/10/92 15:00	44 BDL		
4/10/92 15:00	44 BDL		
4/11/92 7:00	45 BDL		
4/11/92 13:00	45 BDL		
4/12/92 7:00	46	17	
4/12/92 13:55	46 BDL		
4/13/92 8:00	47 BDL		
4/13/92 16:00	47 BDL		
4/14/92 8:00	48 BDL		
4/14/92 8:00	48 BDL		
4/14/92 16:00	48 BDL		
4/15/92 8:00	49 BDL		
4/15/92 15:00	49 BDL		
4/16/92 7:00	50 BDL		
4/16/92 15:55	50	17	
4/17/92 8:00	51 BDL		
4/17/92 14:00	51 BDL		
4/18/92 7:00	52	17	
4/18/92 13:00	52 BDL		
4/19/92 7:00	53	17	
4/19/92 7:00	53 BDL		
4/19/92 14:05	53	17	
4/20/92 7:00	54 BDL		
4/20/92 9:00	54 BDL		
4/20/92 16:00	54 BDL		
4/21/92 9:00	55 BDL		
4/21/92 16:00	55 BDL		
4/22/92 8:00	56 BDL		
4/22/92 8:00	56 BDL		
4/22/92 16:00	56 BDL		
4/23/92 9:00	57 BDL		
4/23/92 16:00	57 BDL		
4/24/92 9:00	58 BDL		
4/24/92 9:00	58 BDL		
4/24/92 14:00	58 BDL		
4/26/92 8:00	60	11	
4/26/92 14:00	60	10	
4/27/92 8:00	61 BDL		
4/27/92 15:00	61 BDL		
4/28/92 8:00	62 BDL		
4/28/92 15:00	62 BDL		
4/29/92 8:00	63	10	
4/29/92 15:00	63 BDL		
4/30/92 8:00	64 BDL		
4/30/92 16:00	64 BDL		
5/1/92 8:00	65	11	
5/1/92 15:00	65 BDL		
5/2/92 8:00	66	11	
5/3/92 8:00	67	11	
5/3/92 8:00	67 BDL		
5/4/92 8:00	68 BDL		
5/4/92 15:00	68 BDL		

DATE	DAYS	VC (PPM)	VCINFLU.XLS
5/5/92 8:00	69 BDL		
5/5/92 15:00	69 BDL		
5/6/92 8:00	70 BDL		
5/6/92 8:00	70 BDL		
5/6/92 16:00	70 BDL		
5/7/92 7:00	71	10	
5/7/92 15:00	71 BDL		
5/8/92 7:00	72	10	
5/8/92 7:00	72	11	
5/8/92 13:00	72 BDL		
5/9/92 8:00	73	11	
5/10/92 8:00	74	11	
5/11/92 8:00	75 BDL		
5/11/92 14:00	75 BDL		
5/11/92 14:00	75 BDL		
5/12/92 8:00	76 BDL		
5/12/92 14:00	76 BDL		
5/13/92 8:00	77 BDL		
5/13/92 14:00	77 BDL		
5/14/92 7:00	78	11	
5/14/92 15:00	78 BDL		
5/15/92 7:00	79	11	
5/15/92 14:00	79 BDL		
5/16/92 10:00	80	11	
5/16/92 10:00	80 BDL		
5/17/92 8:00	81	11	
5/18/92 17:05	82 BDL		
5/19/92 8:00	83 BDL		
5/19/92 15:00	83 BDL		
5/20/92 8:00	84 BDL		
5/20/92 15:00	84 BDL		
5/21/92 8:00	85	7	
5/21/92 14:30	85 BDL		
5/22/92 7:00	86 BDL		
5/22/92 7:00	86 BDL		
5/22/92 13:05	86 BDL		
5/23/92 8:00	87 BDL		
5/24/92 8:00	88 BDL		
5/25/92 8:00	89 BDL		
5/25/92 8:00	89 BDL		
5/25/92 17:00	89 BDL		
5/26/92 8:00	90 BDL		
5/26/92 14:00	90 BDL		
5/27/92 8:00	91 BDL		
5/27/92 13:00	91 BDL		
5/28/92 8:00	92 BDL		
5/28/92 16:00	92 BDL		
5/29/92 6:05	93 BDL		
5/30/92 8:00	94 BDL		
5/31/92 10:00	95 BDL		
6/1/92 8:00	96 BDL		
6/1/92 14:00	96 BDL		

DATE	DAYS	VC (PPM)	VCINFLU.XLS
6/2/92 8:00	97 BDL		
6/2/92 14:00	97 BDL		
6/3/92 8:00	98 BDL		
6/3/92 14:00	98 BDL		
6/4/92 8:00	99 BDL		
6/4/92 14:00	99 BDL		
6/5/92 8:00	100 BDL		
6/6/92 16:00	101 BDL		
6/6/92 16:00	101 BDL		
6/7/92 11:00	102 BDL		
6/8/92 8:00	103 BDL		
6/10/92 8:00	105 BDL		
6/10/92 14:00	105 BDL		
6/11/92 8:00	106 BDL		
6/11/92 14:00	106 BDL		
6/11/92 14:00	106 BDL		
6/12/92 8:00	107 BDL		
6/12/92 12:00	107 BDL		
6/13/92 12:00	108 BDL		
6/13/92 12:00	108 BDL		
6/14/92 13:00	109 BDL		
6/15/92 9:30	110 BDL		
6/15/92 15:00	110 BDL		
6/16/92 8:00	111	7	
6/16/92 14:00	111 BDL		
6/17/92 8:00	112		
6/17/92 8:00	112 BDL		
6/17/92 8:00	112 BDL		
6/17/92 8:05	112		
6/17/92 13:00	112		
6/17/92 13:00	112 BDL		
6/18/92 8:00	113 BDL		
6/18/92 8:05	113		
6/18/92 8:05	113		
6/18/92 16:25	113 BDL		
6/19/92 9:08	114	1.3	
6/19/92 9:08	114 BDL		
6/19/92 9:21	114		
6/19/92 9:21	114		
6/19/92 12:15	114 BDL		
6/23/92 8:30	118 BDL		
6/23/92 13:30	118 BDL		
6/24/92 8:00	119 BDL		
6/24/92 8:00	119 BDL		
6/24/92 12:00	119 BDL		
6/25/92 8:00	120 BDL		
6/25/92 12:30	120 BDL		
6/26/92 8:30	121 BDL		
6/26/92 13:00	121 BDL		
6/27/92 11:30	122 BDL		
6/27/92 11:30	122 BDL		
6/28/92 11:30	123 BDL		

DATE	DAYS	VC (PPM)	VCINFLU.XLS
6/29/92 7:30	124	BDL	
6/29/92 13:00	124	BDL	
6/30/92 9:00	125	BDL	
6/30/92 14:00	125	BDL	
7/1/92 9:30	126	BDL	
7/1/92 9:30	126	BDL	
7/1/92 14:00	126	BDL	
7/2/92 8:00	127	BDL	
7/2/92 13:30	127	BDL	
7/3/92 8:00	128	BDL	
7/3/92 8:00	128	BDL	
7/3/92 12:00	128	BDL	
7/4/92 11:00	129	BDL	
7/5/92 11:00	130	BDL	
7/6/92 9:00	131	BDL	
7/6/92 15:00	131	BDL	
7/6/92 15:00	131	BDL	
7/7/92 9:30	132	BDL	
7/8/92 8:00	133	BDL	
7/8/92 15:00	133	BDL	
7/9/92 9:00	134	BDL	
7/9/92 14:00	134	BDL	
7/10/92 10:00	135	BDL	
7/10/92 13:00	135	BDL	
7/11/92 9:30	136	BDL	
7/12/92 10:15	137	BDL	
7/13/92 8:40	138		
7/13/92 8:40	138	BDL	
7/13/92 13:35	138	BDL	
7/14/92 8:40	139	BDL	
7/14/92 13:25	139	BDL	
7/15/92 8:11	140	BDL	
7/15/92 13:31	140	BDL	
7/16/92 8:10	141	BDL	
7/16/92 13:58	141	BDL	
7/17/92 9:45	142	BDL	
7/17/92 9:45	142	BDL	
7/17/92 13:29	142	BDL	
7/18/92 8:05	143	BDL	
7/19/91 8:02	-222	BDL	
7/20/92 7:45	145	BDL	
7/20/92 13:00	145	BDL	
7/21/92 9:10	146	BDL	
7/21/92 13:30	146	BDL	
7/22/92 8:39	147	BDL	
7/22/92 13:35	147	BDL	
7/23/92 8:02	148	BDL	
7/23/92 13:30	148	BDL	
7/24/92 7:50	149	BDL	
7/24/92 7:50	149	BDL	
7/24/92 13:00	149		7
7/25/92 8:10	150		7

DATE	DAYS	VC (PPM)	VCINFLU.XLS
7/26/92 9:30	151 BDL		
7/27/92 8:00	152	7	
7/27/92 8:00	152 BDL		
7/27/92 13:00	152 BDL		
7/28/92 10:00	153	8	
7/28/92 12:00	153	7	
7/29/92 9:00	154	8	
7/29/92 13:00	154	8	
7/30/92 7:00	155 BDL		
7/30/92 12:00	155	8	
7/31/92 9:00	156	8	
7/31/92 12:00	156 BDL		
8/6/92 8:00	162	6	
8/6/92 12:00	162	7	
8/7/92 8:20	163	6	
8/7/92 13:22	163	7	
8/8/92 9:30	164	7	
8/9/92 8:00	165	7	
8/10/92 7:35	166	7	
8/10/92 13:20	166	7	
8/11/92 8:00	167	7	
8/11/92 8:00	167	7	
8/11/92 13:00	167	7	
8/12/92 7:50	168	7	
8/12/92 12:26	168	7	
8/13/92 8:20	169	7	
8/13/92 15:00	169	7	
8/14/92 8:15	170	7	
8/14/92 13:00	170	7	
8/15/92 8:20	171	7	
8/16/92 8:15	172	7	
8/17/92 9:00	173	7	
8/17/92 9:00	173	7	
8/17/92 14:30	173	8	
8/18/92 8:25	174	8	
8/18/92 14:00	174	8	
8/19/92 8:10	175	7	
8/20/92 17:00	176	8	
8/21/92 8:00	177	7	
8/21/92 13:30	177	8	
8/22/92 9:30	178	8	
8/23/92 10:00	179	8	
8/24/92 8:16	180	8	
8/24/92 13:30	180	8	
8/25/92 8:50	181	8	
8/25/92 14:00	181	8	
8/26/92 8:30	182	8	
8/26/92 13:30	182	8	
8/27/92 8:00	183	8	
8/27/92 13:30	183	8	
8/27/92 13:30	183	8	
8/28/92 8:30	184	8	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
8/28/92 13:00	184	8	
8/28/92 13:00	184	8	
8/29/92 9:00	185	8	
8/30/92 9:00	186	8	
8/31/92 8:30	187	8	
8/31/92 13:00	187	8	
9/1/92 21:25	188	8	
9/2/92 9:31	189	9	
9/2/92 9:31	189	9	
9/3/92 8:00	190	9	
9/3/92 13:40	190	9	
9/4/92 8:30	191	9	
9/4/92 12:00	191	9	
9/5/92 13:00	192	9	
9/6/92 9:55	193	9	
9/6/92 9:55	193	9	
9/7/92 10:00	194	9	
9/7/92 12:30	194	9	
9/8/92 8:55	195	9	
9/8/92 12:55	195	9	
9/9/92 8:55	196	9	
9/9/92 12:00	196	9	
9/9/92 12:00	196	10	
9/10/92 8:00	197	10	
9/10/92 12:00	197	10	
9/11/92 8:00	198	9	
9/11/92 12:00	198	10	
9/11/92 12:00	198	10	
9/12/92 9:00	199	10	
9/13/92 9:00	200 NO		
9/14/92 9:00	201	10	
9/14/92 16:05	201	10	
9/15/92 9:00	202	9	
9/15/92 13:00	202	10	
9/16/92 9:40	203	10	
9/16/92 13:45	203	10	
9/17/92 8:30	204	10	
9/17/92 8:30	204	10	
9/17/92 14:00	204	10	
9/18/92 9:00	205	13	
9/18/92 13:30	205	13	
9/19/92 9:00	206	14	
9/20/92 10:30	207	15	
9/21/92 10:00	208	14	
9/21/92 13:30	-177	9	
9/21/92 14:00	208	15	
9/22/92 8:30	209	14	
9/22/92 8:30	209	14	
9/22/92 13:00	209	14	
9/23/92 8:30	210	15	
9/23/92 13:00	210	15	
9/24/92 8:15	211	15	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
9/24/92 13:00	211	15	
9/27/92 8:30	214	15	
9/28/92 8:00	215	15	
9/28/92 13:00	215	15	
9/29/92 8:30	216	15	
9/29/92 8:30	216	15	
9/29/92 14:30	216	16	
10/1/92 9:30	218	15	
10/1/92 14:00	218	15	
10/2/92 8:30	219	15	
10/2/92 13:00	219	16	
10/2/92 13:00	219	16	
10/3/92 9:30	220	15	
10/4/92 8:28	221	15	
10/4/92 8:28	221	15	
10/5/92 8:30	222	15	
10/5/92 13:30	222	15	
10/6/92 9:00	223	5	
10/6/92 13:30	223	5	
10/7/92 9:00	224	5	
10/7/92 13:30	224	6	
10/7/92 13:30	224	6	
10/8/92 9:30	225	5	
10/8/92 14:00	225	5	
10/9/92 9:00	226	5	
10/9/92 13:30	226	6	
10/10/92 10:30	227	5	
10/11/92 9:30	228	6	
10/15/92 10:00	232	6	
10/15/92 13:00	232	6	
10/15/92 13:00	232	6	
10/16/92 9:00	233	5	
10/16/92 13:00	233	6	
10/17/92 9:23	234	5	
10/18/92 9:30	235	5	
10/19/92 9:30	236	6	
10/19/92 13:30	236	6	
10/19/92 13:30	236	6	
10/20/92 9:30	237	6	
10/20/92 13:30	237	6	
10/21/92 9:30	238	5	
10/21/92 13:00	238	6	
10/22/92 9:00	239	5	
10/22/92 12:00	239	5	
10/22/92 12:00	239	5	
10/23/92 9:30	240	5	
10/23/92 14:00	240 BDL		
10/24/92 10:30	241	5	
10/25/92 9:07	242	5	
10/26/92 9:00	243	5	
10/26/92 15:00	243	5	
10/27/92 9:00	244	5	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
10/27/92 14:30	244	6	
10/28/92 9:07	245	5	
10/28/92 13:30	245	5	
10/29/92 9:00	246	5	
10/29/92 13:00	246	5	
10/30/92 10:25	247	5	
10/30/92 18:00	247	5	
10/31/92 11:00	248 BDL		
10/31/92 11:00	248 BDL		
11/1/92 14:00	249	5	
11/2/92 10:00	250	5	
11/2/92 15:00	250 BDL		
11/3/92 9:30	251 BDL		
11/3/92 17:30	251 BDL		
11/4/92 9:33	252	5	
11/4/92 9:33	252	5	
11/4/92 14:00	252	5	
11/5/92 9:30	253 BDL		
11/5/92 13:00	253 BDL		
11/6/92 9:30	254	5	
11/6/92 9:30	254	5	
11/6/92 14:00	254	5	
11/7/92 9:30	255	5	
11/8/92 10:30	256	5	
11/8/92 10:30	256	5	
11/9/92 9:30	257	5	
11/9/92 13:30	257	5	
11/10/92 10:00	258	5	
11/10/92 14:00	258	5	
11/11/92 19:32	259	5	
11/12/92 9:30	260	5	
11/12/92 9:30	260	5	
11/12/92 13:00	260	5	
11/13/92 9:30	261	5	
11/13/92 13:00	261	5	
11/14/92 15:00	262	5	
11/15/92 13:00	263	5	
11/16/92 9:30	264 BDL		
11/16/92 13:00	264 BDL		
11/17/92 10:00	265 BDL		
11/17/92 10:00	265 BDL		
11/17/92 14:30	265 BDL		
11/18/92 9:00	266 BDL		
11/18/92 13:00	266 BDL		
11/19/92 9:00	267 BDL		
11/19/92 13:00	267 BDL		
11/20/92 10:00	268 BDL		
11/20/92 14:00	268 BDL		
11/21/92 12:00	269 BDL		
11/21/92 12:00	269 BDL		
11/22/92 12:00	270 BDL		
12/14/92 10:00	292 *BDL		

DATE	DAYS	VC (PPM)	VCINFLU.XLS
12/14/92 15:00	292	*BDL	
12/15/92 9:30	293	*BDL	
12/15/92 13:30	293	*BDL	
12/16/92 9:00	294	*BDL	
12/16/92 14:00	294	*BDL	
12/17/92 9:00	295	*BDL	
12/17/92 13:00	295	*BDL	
12/18/92 9:30	296	*BDL	
12/18/92 13:00	296	*BDL	
12/19/92 17:30	297	*BDL	
12/19/92 17:30	297	*BDL	
12/20/92 10:30	298	*BDL	
12/21/92 10:00	299	*BDL	
12/21/92 14:30	299	*BDL	
12/22/92 10:00	300	*BDL	
12/22/92 13:30	300	*BDL	
12/23/92 9:00	301	*BDL	
12/23/92 14:00	301	*BDL	
12/24/92 10:30	302	*BDL	
12/24/92 12:30	302	*BDL	
12/26/92 13:00	304	*BDL	
12/26/92 13:00	304	*BDL	
12/27/92 12:30	305	*BDL	
12/28/92 16:30	306	BDL	
12/29/92 11:00	307	BDL	
12/29/92 14:00	307	BDL	
12/30/92 10:00	308	BDL	
12/30/92 14:30	308	BDL	
12/31/92 11:00	309	BDL	
12/31/92 12:00	309	BDL	
1/2/93 12:00	311	BDL	
1/2/93 12:00	311	BDL	
1/3/93 15:00	312	BDL	
1/4/93 10:30	313	BDL	
1/4/93 14:30	313	BDL	
1/5/93 9:30	314	BDL	
1/5/93 14:00	314	BDL	
1/6/93 9:30	315	BDL	
1/6/93 9:30	315	BDL	
1/6/93 14:30	315	BDL	
1/7/93 10:00	316	BDL	
1/7/93 13:30	316	BDL	
1/8/93 9:30	317	BDL	
1/8/93 13:30	317	BDL	
1/9/93 12:00	318	BDL	
1/10/93 14:30	319	BDL	
1/11/93 11:00	320	BDL	
1/11/93 14:30	320	BDL	
1/12/93 11:30	321	BDL	
1/12/93 11:30	321	BDL	
1/12/93 14:30	321	BDL	
1/13/93 8:30	322	BDL	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
1/14/93 10:30	323	BDL	
1/15/93 10:30	324	BDL	
1/26/93 16:00	335	BDL	
1/26/93 16:00	335	BDL	
1/27/93 10:30	336	BDL	
1/28/93 9:30	337	BDL	
1/29/93 8:30	338	BDL	
1/29/93 8:30	338	BDL	
1/31/93 11:00	340	BDL	
2/1/93 10:30	341	BDL	
2/1/93 13:30	341	BDL	
2/1/93 13:30	341	BDL	
2/2/93 9:15	342	BDL	
2/2/93 14:00	342	BDL	
2/3/93 9:30	343	BDL	
2/3/93 15:00	343	BDL	
2/4/93 10:00	344	BDL	
2/4/93 10:00	344	BDL	
2/4/93 15:00	344	BDL	
2/5/93 10:00	345	BDL	
2/5/93 15:30	345	BDL	
2/7/93 15:00	347	BDL	
2/8/93 10:30	348	BDL	
2/8/93 10:30	348	BDL	
2/8/93 15:00	348	BDL	
2/9/93 10:30	349	BDL	
2/10/93 13:00	350	BDL	
2/11/93 9:00	351	BDL	
2/11/93 9:00	351	BDL	
2/11/93 14:00	351	BDL	
2/12/93 10:00	352	BDL	
2/12/93 16:00	352	BDL	
2/13/93 11:30	353	BDL	
2/14/93 19:00	354	BDL	
2/15/93 9:00	355	BDL	
2/15/93 9:00	355	BDL	
2/15/93 14:30	355	BDL	
2/16/93 9:00	356	BDL	
2/16/93 14:30	356	BDL	
2/17/93 9:00	357	BDL	
2/17/93 15:00	357	BDL	
2/18/93 10:00	358	BDL	
2/18/93 14:00	358	BDL	
2/19/93 9:30	359	BDL	
2/19/93 14:00	359	BDL	
2/24/93 11:00	364	BDL	
2/24/93 15:50	364	BDL	
2/25/93 9:30	365	BDL	
2/25/93 13:55	365	BDL	
2/25/93 13:55	365	BDL	
2/26/93 9:30	366	BDL	
2/26/93 13:30	366	BDL	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
2/27/93 13:00	367	BDL	
2/28/93 10:00	368	BDL	
2/28/93 10:00	368	BDL	
2/28/93 15:45	368	BDL	
3/1/93 10:00	369	BDL	
3/1/93 15:00	369	BDL	
3/2/93 8:30	370	BDL	
3/2/93 15:00	370	BDL	
3/3/93 10:00	371	BDL	
3/3/93 14:00	371	BDL	
3/4/93 10:00	372	BDL	
3/4/93 13:30	372	BDL	
3/5/93 9:30	373	BDL	
3/5/93 14:30	373	BDL	
3/5/93 14:30	373	BDL	
3/6/93 10:00	374	BDL	
3/6/93 10:00	374	BDL	
3/6/93 16:30	374	BDL	
3/7/93 13:00	375	BDL	
3/8/93 10:30	376	BDL	
3/8/93 16:00	376	BDL	
3/9/93 10:00	377	BDL	
3/9/93 14:00	377	BDL	
3/9/93 14:00	377	BDL	
3/10/93 9:30	378	BDL	
3/10/93 13:00	378	BDL	
3/11/93 8:00	379	BDL	
3/11/93 12:00	379	BDL	
3/12/93 10:00	380	BDL	
3/12/93 10:00	380	BDL	
3/12/93 14:00	380	BDL	
3/13/93 13:00	381	BDL	
3/14/93 15:00	382	BDL	
3/15/93 14:00	383	BDL	
3/16/93 9:30	384	BDL	
3/16/93 15:30	384	BDL	
3/17/93 9:00	385	BDL	
3/17/93 13:00	385	BDL	
3/18/93 9:00	386	BDL	
3/18/93 13:00	386	BDL	
3/19/93 10:30	387	BDL	
3/19/93 14:00	387	BDL	
3/20/93 9:30	388	BDL	
3/20/93 13:00	388	BDL	
3/21/93 9:30	389	BDL	
3/22/93 9:30	390	BDL	
3/22/93 15:00	390	BDL	
3/23/93 11:00	391	BDL	
3/23/93 11:00	391	BDL	
3/23/93 15:00	391	BDL	
3/24/93 7:00	392	BDL	
3/24/93 16:00	392	BDL	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
3/25/93 9:30	393	BDL	
3/25/93 9:30	393	BDL	
3/25/93 13:30	393	BDL	
3/26/93 9:00	394	BDL	
3/26/93 13:00	394	BDL	
3/27/93 11:00	395	BDL	
3/28/93 9:00	396	BDL	
3/28/93 9:00	396	BDL	
3/28/93 13:00	396	BDL	
3/29/93 10:00	397	BDL	
3/29/93 18:33	397	BDL	
3/30/93 9:00	398	BDL	
3/30/93 17:00	398	BDL	
3/31/93 10:30	399	BDL	
3/31/93 13:00	399	BDL	
4/1/93 10:00	400	BDL	
4/1/93 13:00	400	BDL	
4/2/93 10:30	401	BDL	
4/2/93 14:00	401	BDL	
4/2/93 14:00	401	BDL	
4/3/93 13:00	402	BDL	
4/4/93 14:00	403	BDL	
4/5/93 11:00	404	BDL	
4/5/93 16:00	404	BDL	
4/6/93 11:30	405	BDL	
4/6/93 13:30	405	BDL	
4/7/93 10:00	406	BDL	
4/7/93 13:00	406	BDL	
4/8/93 10:00	407	BDL	
4/8/93 17:30	407	BDL	
4/8/93 17:30	407	BDL	
4/9/93 13:15	408	BDL	
4/9/93 16:00	408	BDL	
4/10/93 12:00	409	BDL	
4/11/93 10:30	410	BDL	
4/11/93 20:00	410	BDL	
4/12/93 10:08	411	BDL	
4/12/93 10:08	411	BDL	
4/12/93 12:15	411	BDL	
4/13/93 11:00	412	BDL	
4/13/93 15:30	412	BDL	
4/14/93 11:00	413	BDL	
4/14/93 14:00	413	BDL	
4/15/93 10:00	414	BDL	
4/15/93 17:00	414	BDL	
4/16/93 10:30	415	BDL	
4/16/93 16:30	415	BDL	
4/17/93 11:00	416	BDL	
4/17/93 13:00	416	BDL	
4/18/93 12:00	417	BDL	
4/18/93 12:00	417	BDL	
4/19/93 7:30	418	BDL	

DATE	DAYS	VC (PPM)	VCINFLU.XLS
4/19/93 14:30	418	BDL	
4/20/93 10:30	419	BDL	
4/20/93 13:00	419	BDL	
4/21/93 11:00	420	BDL	
4/21/93 15:00	420	BDL	
4/21/93 15:00	420	BDL	
4/22/93 11:30	421	BDL	
4/24/93 12:00	423	BDL	
4/25/93 18:45	424	BDL	
4/25/93 7:38	#VALUE!	BDL	
4/25/93 18:45	424	BDL	
4/25/93 18:45	424	BDL	
4/26/93 9:08	425	BDL	
4/26/93 13:18	425	BDL	
4/27/93 7:45	426	BDL	
4/27/93 7:45	426	BDL	
4/27/93 19:15	426	BDL	
4/28/93 9:13	427	BDL	
4/28/93 12:10	427	BDL	
4/29/93 8:15	428	BDL	
4/29/93 16:08	428	BDL	
4/29/93 16:08	428	BDL	
4/30/93 9:12	429	BDL	
4/30/93 17:26	429	BDL	

DATE

DAYS

DCM (PPM)

DCMINFLU.XLS

WSRC DATA & CHART

DCM CONCENTRATIONS AT INFLUENT

DATES	DAYS	DCM (PPM)
2/26/92 10:42		0 BDL
2/26/92 10:59		0 BDL
2/26/92 11:20		0 BDL
2/26/92 12:20		0 BDL
2/26/92 13:38		0 BDL
2/26/92 15:20		0 BDL
2/26/92 19:30		0 BDL
2/26/92 23:25		1 BDL
2/27/92 3:20		1 BDL
2/27/92 7:20		1 BDL
2/27/92 11:27		1 BDL
2/27/92 15:22		1 BDL
2/28/92 6:23		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:05		3 BDL
2/29/92 19:10		3 BDL
3/1/92 3:12		4 BDL
3/1/92 15:05		4 BDL
3/2/92 7:45		5 BDL
3/2/92 19:00		5 BDL
3/5/92 23:45		9 BDL
3/6/92 0:45		9 BDL
3/6/92 2:45		9 BDL
3/6/92 6:45		9 BDL
3/6/92 10:45		9 BDL
3/6/92 14:45		9 BDL
3/6/92 14:46		9 BDL
3/7/92 7:45		10 BDL
3/7/92 16:45		10 BDL
3/8/92 7:45		11 BDL
3/8/92 16:45		11 BDL
3/9/92 7:45		12 BDL
3/9/92 16:45		12 BDL
3/9/92 16:45		12 BDL
3/10/92 7:45		13 BDL
3/10/92 16:45		13 BDL
3/11/92 7:50		14 BDL
3/11/92 16:45		14 BDL
3/12/92 7:50		15 BDL
3/12/92 7:50		15 BDL
3/12/92 15:45		15 BDL
3/13/92 7:45		16 BDL
3/13/92 16:45		16 BDL
3/14/92 7:45		17 BDL
3/14/92 15:45		17 BDL
3/15/92 7:30		18 BDL

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
3/15/92 16:15	18	BDL	
3/16/92 7:35	19	BDL	
3/16/92 15:50	19	BDL	
3/17/92 7:50	20	BDL	
3/17/92 16:30	20	BDL	
3/18/92 7:55	21	BDL	
3/18/92 17:00	21	BDL	
3/19/92 7:50	22	BDL	
3/19/92 14:30	22	BDL	
3/20/92 8:00	23	BDL	
3/20/92 17:00	23	BDL	
3/21/92 7:45	24	BDL	
3/21/92 16:00	24	BDL	
3/22/92 7:45	25	BDL	
3/22/92 15:45	25	BDL	
3/23/92 7:45	26	BDL	
3/23/92 15:00	26	BDL	
3/24/92 8:00	27	BDL	
3/24/92 8:00	27	BDL	
3/24/92 16:45	27	BDL	
3/25/92 8:00	28	BDL	
3/25/92 16:30	28	BDL	
3/26/92 7:00	29	BDL	
3/26/92 16:00	29	BDL	
3/27/92 8:00	30	BDL	
3/27/92 17:00	30	BDL	
3/28/92 6:55	31	BDL	
3/28/92 14:00	31	BDL	
3/29/92 6:50	32	BDL	
3/29/92 14:55	32	BDL	
4/2/92 15:00	36	BDL	
4/2/92 15:01	36	BDL	
4/2/92 17:00	36	BDL	
4/2/92 19:00	36	BDL	
4/3/92 8:00	37	BDL	
4/3/92 16:05	37	BDL	
4/4/92 6:45	38	BDL	
4/5/92 8:00	39	BDL	
4/5/92 15:00	39	BDL	
4/5/92 15:00	39	BDL	
4/6/92 9:00	40	BDL	
4/6/92 16:00	40	BDL	
4/7/92 9:00	41	BDL	
4/7/92 16:00	41	BDL	
4/8/92 8:55	42	BDL	
4/8/92 16:00	42	BDL	
4/9/92 7:00	43	BDL	
4/9/92 7:00	43	BDL	
4/9/92 16:00	43	BDL	
4/10/92 7:00	44	BDL	
4/10/92 15:00	44	BDL	
4/10/92 15:00	44	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
4/11/92 7:00	45	BDL	
4/11/92 13:00	45	BDL	
4/12/92 7:00	46	BDL	
4/12/92 13:55	46	BDL	
4/13/92 8:00	47	BDL	
4/13/92 16:00	47	BDL	
4/14/92 8:00	48	BDL	
4/14/92 8:00	48	BDL	
4/14/92 16:00	48	BDL	
4/15/92 8:00	49	BDL	
4/15/92 15:00	49	BDL	
4/16/92 7:00	50	BDL	
4/16/92 15:55	50		14
4/17/92 8:00	51	BDL	
4/17/92 14:00	51	BDL	
4/18/92 7:00	52	BDL	
4/18/92 13:00	52	BDL	
4/19/92 7:00	53	BDL	
4/19/92 7:00	53	BDL	
4/19/92 14:05	53	BDL	
4/20/92 7:00	54	BDL	
4/20/92 9:00	54	BDL	
4/20/92 16:00	54	BDL	
4/21/92 9:00	55	BDL	
4/21/92 16:00	55	BDL	
4/22/92 8:00	56	BDL	
4/22/92 8:00	56	BDL	
4/22/92 16:00	56	BDL	
4/23/92 9:00	57	BDL	
4/23/92 16:00	57	BDL	
4/24/92 9:00	58	BDL	
4/24/92 9:00	58	BDL	
4/24/92 14:00	58	BDL	
4/26/92 8:00	60	BDL	
4/26/92 14:00	60	BDL	
4/27/92 8:00	61	BDL	
4/27/92 15:00	61	BDL	
4/28/92 8:00	62	BDL	
4/28/92 15:00	62	BDL	
4/29/92 8:00	63	bdl	
4/29/92 15:00	63	BDL	
4/30/92 8:00	64	BDL	
4/30/92 16:00	64	BDL	
5/1/92 8:00	65	BDL	
5/1/92 15:00	65	BDL	
5/2/92 8:00	66	BDL	
5/3/92 8:00	67	BDL	
5/3/92 8:00	67	BDL	
5/4/92 8:00	68	BDL	
5/4/92 15:00	68	BDL	
5/5/92 8:00	69	BDL	
5/5/92 15:00	69	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
5/6/92 8:00	70	BDL	
5/6/92 8:00	70	BDL	
5/6/92 16:00	70	BDL	
5/7/92 7:00	71	BDL	
5/7/92 15:00	71	BDL	
5/8/92 7:00	72	BDL	
5/8/92 7:00	72	BDL	
5/8/92 13:00	72	BDL	
5/9/92 8:00	73	BDL	
5/10/92 8:00	74	BDL	
5/11/92 8:00	75	BDL	
5/11/92 14:00	75	BDL	
5/11/92 14:00	75	BDL	
5/12/92 8:00	76	BDL	
5/12/92 14:00	76	BDL	
5/13/92 8:00	77	BDL	
5/13/92 14:00	77	BDL	
5/14/92 7:00	78	BDL	
5/14/92 15:00	78	BDL	
5/15/92 7:00	79	BDL	
5/15/92 14:00	79	BDL	
5/16/92 10:00	80	BDL	
5/16/92 10:00	80	BDL	
5/17/92 8:00	81	BDL	
5/18/92 17:05	82	BDL	
5/19/92 8:00	83	BDL	
5/19/92 15:00	83	BDL	
5/20/92 8:00	84	BDL	
5/20/92 15:00	84	BDL	
5/21/92 8:00	85	BDL	
5/21/92 14:30	85	BDL	
5/22/92 7:00	86	BDL	
5/22/92 7:00	86	BDL	
5/22/92 13:05	86	BDL	
5/23/92 8:00	87	BDL	
5/24/92 8:00	88	BDL	
5/25/92 8:00	89	BDL	
5/25/92 8:00	89	BDL	
5/25/92 17:00	89	BDL	
5/26/92 8:00	90	BDL	
5/26/92 14:00	90	BDL	
5/27/92 8:00	91	BDL	
5/27/92 13:00	91	BDL	
5/28/92 8:00	92	BDL	
5/28/92 16:00	92	BDL	
5/29/92 6:05	93	BDL	
5/30/92 8:00	94	BDL	
5/31/92 10:00	95	BDL	
6/1/92 8:00	96	BDL	
6/1/92 14:00	96	BDL	
6/2/92 8:00	97	BDL	
6/2/92 14:00	97	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
6/3/92 8:00	98	BDL	
6/3/92 14:00	98	BDL	
6/4/92 8:00	99	BDL	
6/4/92 14:00	99	BDL	
6/5/92 8:00	100	BDL	
6/6/92 16:00	101	BDL	
6/6/92 16:00	101	BDL	
6/7/92 11:00	102	BDL	
6/8/92 8:00	103	BDL	
6/10/92 8:00	105	BDL	
6/10/92 14:00	105	BDL	
6/11/92 8:00	106	BDL	
6/11/92 14:00	106	BDL	
6/11/92 14:00	106	BDL	
6/12/92 8:00	107	BDL	
6/12/92 12:00	107	BDL	
6/13/92 12:00	108	BDL	
6/13/92 12:00	108	BDL	
6/14/92 13:00	109	BDL	
6/15/92 9:30	110	BDL	
6/15/92 15:00	110	BDL	
6/16/92 8:00	111	BDL	
6/16/92 14:00	111	BDL	
6/17/92 8:00	112		
6/17/92 8:00	112	BDL	
6/17/92 8:00	112	BDL	
6/17/92 8:05	112		
6/17/92 13:00	112		
6/17/92 13:00	112	BDL	
6/18/92 8:00	113	BDL	
6/18/92 8:05	113		
6/18/92 8:05	113		
6/18/92 16:25	113	BDL	
6/19/92 9:08	114		2.2
6/19/92 9:08	114	BDL	
6/19/92 9:21	114		
6/19/92 9:21	114		
6/19/92 12:15	114		48
6/23/92 8:30	118	BDL	
6/23/92 13:30	118	BDL	
6/24/92 8:00	119	BDL	
6/24/92 8:00	119	BDL	
6/24/92 12:00	119	BDL	
6/25/92 8:00	120	BDL	
6/25/92 12:30	120	BDL	
6/26/92 8:30	121	BDL	
6/26/92 13:00	121	BDL	
6/27/92 11:30	122	BDL	
6/27/92 11:30	122	BDL	
6/28/92 11:30	123	BDL	
6/29/92 7:30	124	BDL	
6/29/92 13:00	124	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
6/30/92 9:00	125	BDL	
6/30/92 14:00	125	BDL	
7/1/92 9:30	126	BDL	
7/1/92 9:30	126	BDL	
7/1/92 14:00	126	BDL	
7/2/92 8:00	127	BDL	
7/2/92 13:30	127	BDL	
7/3/92 8:00	128	BDL	
7/3/92 8:00	128	BDL	
7/3/92 12:00	128	BDL	
7/4/92 11:00	129	BDL	
7/5/92 11:00	130	BDL	
7/6/92 9:00	131	BDL	
7/6/92 15:00	131	BDL	
7/6/92 15:00	131	BDL	
7/7/92 9:30	132	BDL	
7/8/92 8:00	133	BDL	
7/8/92 15:00	133	BDL	
7/9/92 9:00	134	BDL	
7/9/92 14:00	134	BDL	
7/10/92 10:00	135	BDL	
7/10/92 13:00	135	BDL	
7/11/92 9:30	136	BDL	
7/12/92 10:15	137	BDL	
7/13/92 8:40	138		
7/13/92 8:40	138	BDL	
7/13/92 13:35	138	BDL	
7/14/92 8:40	139	BDL	
7/14/92 13:25	139	BDL	
7/15/92 8:11	140	BDL	
7/15/92 13:31	140	BDL	
7/16/92 8:10	141	BDL	
7/16/92 13:58	141	BDL	
7/17/92 9:45	142	BDL	
7/17/92 9:45	142	BDL	
7/17/92 13:29	142	BDL	
7/18/92 8:05	143	BDL	
7/19/91 8:02	-222	BDL	
7/20/92 7:45	145	BDL	
7/20/92 13:00	145	BDL	
7/21/92 9:10	146	BDL	
7/21/92 13:30	146	BDL	
7/22/92 8:39	147	BDL	
7/22/92 13:35	147	BDL	
7/23/92 8:02	148	BDL	
7/23/92 13:30	148	BDL	
7/24/92 7:50	149	BDL	
7/24/92 7:50	149	BDL	
7/24/92 13:00	149	BDL	
7/25/92 8:10	150	BDL	
7/26/92 9:30	151	BDL	
7/27/92 8:00	152	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
7/27/92 8:00	152	BDL	
7/27/92 13:00	152	BDL	
7/28/92 10:00	153	BDL	
7/28/92 12:00	153	BDL	
7/29/92 9:00	154	BDL	
7/29/92 13:00	154	BDL	
7/30/92 7:00	155	BDL	
7/30/92 12:00	155	BDL	
7/31/92 9:00	156	BDL	
7/31/92 12:00	156	BDL	
8/6/92 8:00	162	BDL	
8/6/92 12:00	162	BDL	
8/7/92 8:20	163	BDL	
8/7/92 13:22	163	BDL	
8/8/92 9:30	164	BDL	
8/9/92 8:00	165	BDL	
8/10/92 7:35	166	BDL	
8/10/92 13:20	166	BDL	
8/11/92 8:00	167	BDL	
8/11/92 8:00	167	BDL	
8/11/92 13:00	167	BDL	
8/12/92 7:50	168	BDL	
8/12/92 12:26	168	BDL	
8/13/92 8:20	169	BDL	
8/13/92 15:00	169	BDL	
8/14/92 8:15	170	BDL	
8/14/92 13:00	170	BDL	
8/15/92 8:20	171	BDL	
8/16/92 8:15	172	BDL	
8/17/92 9:00	173	BDL	
8/17/92 9:00	173	BDL	
8/17/92 14:30	173	BDL	
8/18/92 8:25	174	BDL	
8/18/92 14:00	174	BDL	
8/19/92 8:10	175	BDL	
8/20/92 17:00	176	BDL	
8/21/92 8:00	177	BDL	
8/21/92 13:30	177	BDL	
8/22/92 9:30	178	BDL	
8/23/92 10:00	179	BDL	
8/24/92 8:16	180	BDL	
8/24/92 13:30	180	BDL	
8/25/92 8:50	181	BDL	
8/25/92 14:00	181	BDL	
8/26/92 8:30	182	BDL	
8/26/92 13:30	182	BDL	
8/27/92 8:00	183	BDL	
8/27/92 13:30	183	BDL	
8/27/92 13:30	183	BDL	
8/28/92 8:30	184	BDL	
8/28/92 13:00	184	BDL	
8/28/92 13:00	184	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
8/29/92 9:00	185	BDL	
8/30/92 9:00	186	BDL	
8/31/92 8:30	187	BDL	
8/31/92 13:00	187	BDL	
9/1/92 21:25	188	BDL	
9/2/92 9:31	189	BDL	
9/2/92 9:31	189	BDL	
9/3/92 8:00	190	BDL	
9/3/92 13:40	190	BDL	
9/4/92 8:30	191	BDL	
9/4/92 12:00	191	BDL	
9/5/92 13:00	192	BDL	
9/6/92 9:55	193	BDL	
9/6/92 9:55	193	BDL	
9/7/92 10:00	194	BDL	
9/7/92 12:30	194	BDL	
9/8/92 8:55	195	BDL	
9/8/92 12:55	195	BDL	
9/9/92 8:55	196	BDL	
9/9/92 12:00	196	BDL	
9/9/92 12:00	196	BDL	
9/10/92 8:00	197	BDL	
9/10/92 12:00	197	BDL	
9/11/92 8:00	198	BDL	
9/11/92 12:00	198	BDL	
9/11/92 12:00	198	BDL	
9/12/92 9:00	199	BDL	
9/13/92 9:00	200	ANALYSIS	
9/14/92 9:00	201	BDL	
9/14/92 16:05	201	BDL	
9/15/92 9:00	202	BDL	
9/15/92 13:00	202	BDL	
9/16/92 9:40	203	BDL	
9/16/92 13:45	203	BDL	
9/17/92 8:30	204	BDL	
9/17/92 8:30	204	BDL	
9/17/92 14:00	204	BDL	
9/18/92 9:00	205	BDL	
9/18/92 13:30	205	BDL	
9/19/92 9:00	206	BDL	
9/20/92 10:30	207	BDL	
9/21/92 10:00	208	BDL	
9/21/92 13:30	-177	BDL	
9/21/92 14:00	208	BDL	
9/22/92 8:30	209	BDL	
9/22/92 8:30	209	BDL	
9/22/92 13:00	209	BDL	
9/23/92 8:30	210	BDL	
9/23/92 13:00	210	BDL	
9/24/92 8:15	211	BDL	
9/24/92 13:00	211	BDL	
9/27/92 8:30	214	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
9/28/92 8:00	215	BDL	
9/28/92 13:00	215	BDL	
9/29/92 8:30	216	BDL	
9/29/92 8:30	216	BDL	
9/29/92 14:30	216	BDL	
10/1/92 9:30	218	BDL	
10/1/92 14:00	218	BDL	
10/2/92 8:30	219	BDL	
10/2/92 13:00	219	BDL	
10/2/92 13:00	219	BDL	
10/3/92 9:30	220	BDL	
10/4/92 8:28	221	BDL	
10/4/92 8:28	221	BDL	
10/5/92 8:30	222	BDL	
10/5/92 13:30	222	BDL	
10/6/92 9:00	223	BDL	
10/6/92 13:30	223	BDL	
10/7/92 9:00	224	BDL	
10/7/92 13:30	224	BDL	
10/7/92 13:30	224	BDL	
10/8/92 9:30	225	BDL	
10/8/92 14:00	225	BDL	
10/9/92 9:00	226	BDL	
10/9/92 13:30	226	BDL	
10/10/92 10:30	227	BDL	
10/11/92 9:30	228	BDL	
10/15/92 10:00	232	BDL	
10/15/92 13:00	232	BDL	
10/15/92 13:00	232	BDL	
10/16/92 9:00	233	BDL	
10/16/92 13:00	233	BDL	
10/17/92 9:23	234	BDL	
10/18/92 9:30	235	BDL	
10/19/92 9:30	236	BDL	
10/19/92 13:30	236	BDL	
10/19/92 13:30	236	BDL	
10/20/92 9:30	237	BDL	
10/20/92 13:30	237	BDL	
10/21/92 9:30	238	BDL	
10/21/92 13:00	238	BDL	
10/22/92 9:00	239	BDL	
10/22/92 12:00	239	BDL	
10/22/92 12:00	239	BDL	
10/23/92 9:30	240	BDL	
10/23/92 14:00	240	BDL	
10/24/92 10:30	241	BDL	
10/25/92 9:07	242	BDL	
10/26/92 9:00	243	BDL	
10/26/92 15:00	243	BDL	
10/27/92 9:00	244	BDL	
10/27/92 14:30	244	BDL	
10/28/92 9:07	245	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
10/28/92 13:30	245	BDL	
10/29/92 9:00	246	BDL	
10/29/92 13:00	246	BDL	
10/30/92 10:25	247	BDL	
10/30/92 18:00	247	BDL	
10/31/92 11:00	248	BDL	
10/31/92 11:00	248	BDL	
11/1/92 14:00	249	BDL	
11/2/92 10:00	250	BDL	
11/2/92 15:00	250	BDL	
11/3/92 9:30	251	BDL	
11/3/92 17:30	251	BDL	
11/4/92 9:33	252	BDL	
11/4/92 9:33	252	BDL	
11/4/92 14:00	252	BDL	
11/5/92 9:30	253	BDL	
11/5/92 13:00	253	BDL	
11/6/92 9:30	254	BDL	
11/6/92 9:30	254	BDL	
11/6/92 14:00	254	BDL	
11/7/92 9:30	255	BDL	
11/8/92 10:30	256	BDL	
11/8/92 10:30	256	BDL	
11/9/92 9:30	257	BDL	
11/9/92 13:30	257	BDL	
11/10/92 10:00	258	BDL	
11/10/92 14:00	258	BDL	
11/11/92 19:32	259	BDL	
11/12/92 9:30	260	BDL	
11/12/92 9:30	260	BDL	
11/12/92 13:00	260	BDL	
11/13/92 9:30	261	BDL	
11/13/92 13:00	261	BDL	
11/14/92 15:00	262	BDL	
11/15/92 13:00	263	BDL	
11/16/92 9:30	264	BDL	
11/16/92 13:00	264	BDL	
11/17/92 10:00	265	BDL	
11/17/92 10:00	265	BDL	
11/17/92 14:30	265	BDL	
11/18/92 9:00	266	BDL	
11/18/92 13:00	266	BDL	
11/19/92 9:00	267	BDL	
11/19/92 13:00	267	BDL	
11/20/92 10:00	268	BDL	
11/20/92 14:00	268	BDL	
11/21/92 12:00	269	BDL	
11/21/92 12:00	269	BDL	
11/22/92 12:00	270	BDL	
12/14/92 10:00	292	BDL	
12/14/92 15:00	292	BDL	
12/15/92 9:30	293	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
12/15/92 13:30	293	BDL	
12/16/92 9:00	294	BDL	
12/16/92 14:00	294	BDL	
12/17/92 9:00	295	BDL	
12/17/92 13:00	295	BDL	
12/18/92 9:30	296	BDL	
12/18/92 13:00	296	BDL	
12/19/92 17:30	297	BDL	
12/19/92 17:30	297	BDL	
12/20/92 10:30	298	BDL	
12/21/92 10:00	299	BDL	
12/21/92 14:30	299	BDL	
12/22/92 10:00	300	BDL	
12/22/92 13:30	300	BDL	
12/23/92 9:00	301	BDL	
12/23/92 14:00	301	BDL	
12/24/92 10:30	302	BDL	
12/24/92 12:30	302	BDL	
12/26/92 13:00	304	BDL	
12/26/92 13:00	304	BDL	
12/27/92 12:30	305	BDL	
12/28/92 16:30	306	BDL	
12/29/92 11:00	307	BDL	
12/29/92 14:00	307	BDL	
12/30/92 10:00	308	BDL	
12/30/92 14:30	308	BDL	
12/31/92 11:00	309	BDL	
12/31/92 12:00	309	BDL	
1/2/93 12:00	311	BDL	
1/2/93 12:00	311	BDL	
1/3/93 15:00	312	BDL	
1/4/93 10:30	313	BDL	
1/4/93 14:30	313	BDL	
1/5/93 9:30	314	BDL	
1/5/93 14:00	314	BDL	
1/6/93 9:30	315	BDL	
1/6/93 9:30	315	BDL	
1/6/93 14:30	315	BDL	
1/7/93 10:00	316	BDL	
1/7/93 13:30	316	BDL	
1/8/93 9:30	317	BDL	
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1/9/93 12:00	318	BDL	
1/10/93 14:30	319	BDL	
1/11/93 11:00	320	BDL	
1/11/93 14:30	320	BDL	
1/12/93 11:30	321	BDL	
1/12/93 11:30	321	BDL	
1/12/93 14:30	321	BDL	
1/13/93 8:30	322	BDL	
1/14/93 10:30	323	BDL	
1/15/93 10:30	324	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
1/26/93 16:00	335	BDL	
1/26/93 16:00	335	BDL	
1/27/93 10:30	336	BDL	
1/28/93 9:30	337	BDL	
1/29/93 8:30	338	BDL	
1/29/93 8:30	338	BDL	
1/31/93 11:00	340	BDL	
2/1/93 10:30	341	BDL	
2/1/93 13:30	341	BDL	
2/1/93 13:30	341	BDL	
2/2/93 9:15	342	BDL	
2/2/93 14:00	342	BDL	
2/3/93 9:30	343	BDL	
2/3/93 15:00	343	BDL	
2/4/93 10:00	344	BDL	
2/4/93 10:00	344	BDL	
2/4/93 15:00	344	BDL	
2/5/93 10:00	345	BDL	
2/5/93 15:30	345	BDL	
2/7/93 15:00	347	BDL	
2/8/93 10:30	348	BDL	
2/8/93 10:30	348	BDL	
2/8/93 15:00	348	BDL	
2/9/93 10:30	349	BDL	
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2/11/93 9:00	351	BDL	
2/11/93 9:00	351	BDL	
2/11/93 14:00	351	BDL	
2/12/93 10:00	352	BDL	
2/12/93 16:00	352	BDL	
2/13/93 11:30	353	BDL	
2/14/93 19:00	354	BDL	
2/15/93 9:00	355	BDL	
2/15/93 9:00	355	BDL	
2/15/93 14:30	355	BDL	
2/16/93 9:00	356	BDL	
2/16/93 14:30	356	BDL	
2/17/93 9:00	357	BDL	
2/17/93 15:00	357	BDL	
2/18/93 10:00	358	BDL	
2/18/93 14:00	358	BDL	
2/19/93 9:30	359	BDL	
2/19/93 14:00	359	BDL	
2/24/93 11:00	364	BDL	
2/24/93 15:50	364	BDL	
2/25/93 9:30	365	BDL	
2/25/93 13:55	365	BDL	
2/25/93 13:55	365	BDL	
2/26/93 9:30	366	BDL	
2/26/93 13:30	366	BDL	
2/27/93 13:00	367	BDL	
2/28/93 10:00	368	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
2/28/93 10:00	368	BDL	
2/28/93 15:45	368	BDL	
3/1/93 10:00	369	BDL	
3/1/93 15:00	369	BDL	
3/2/93 8:30	370	BDL	
3/2/93 15:00	370	BDL	
3/3/93 10:00	371	BDL	
3/3/93 14:00	371	BDL	
3/4/93 10:00	372	BDL	
3/4/93 13:30	372	BDL	
3/5/93 9:30	373	BDL	
3/5/93 14:30	373	BDL	
3/5/93 14:30	373	BDL	
3/6/93 10:00	374	BDL	
3/6/93 10:00	374	BDL	
3/6/93 16:30	374	BDL	
3/7/93 13:00	375	BDL	
3/8/93 10:30	376	BDL	
3/8/93 16:00	376	BDL	
3/9/93 10:00	377	BDL	
3/9/93 14:00	377	BDL	
3/9/93 14:00	377	BDL	
3/10/93 9:30	378	BDL	
3/10/93 13:00	378	BDL	
3/11/93 8:00	379	BDL	
3/11/93 12:00	379	BDL	
3/12/93 10:00	380	BDL	
3/12/93 10:00	380	BDL	
3/12/93 14:00	380	BDL	
3/13/93 13:00	381	BDL	
3/14/93 15:00	382	BDL	
3/15/93 14:00	383	BDL	
3/16/93 9:30	384	BDL	
3/16/93 15:30	384	BDL	
3/17/93 9:00	385	BDL	
3/17/93 13:00	385	BDL	
3/18/93 9:00	386	BDL	
3/18/93 13:00	386	BDL	
3/19/93 10:30	387	BDL	
3/19/93 14:00	387	BDL	
3/20/93 9:30	388	BDL	
3/20/93 13:00	388	BDL	
3/21/93 9:30	389	BDL	
3/22/93 9:30	390	BDL	
3/22/93 15:00	390	BDL	
3/23/93 11:00	391	BDL	
3/23/93 11:00	391	BDL	
3/23/93 15:00	391	BDL	
3/24/93 7:00	392	BDL	
3/24/93 16:00	392	BDL	
3/25/93 9:30	393	BDL	
3/25/93 9:30	393	BDL	

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
3/25/93 13:30	393	BDL	
3/26/93 9:00	394	BDL	
3/26/93 13:00	394	BDL	
3/27/93 11:00	395	BDL	
3/28/93 9:00	396	BDL	
3/28/93 9:00	396	BDL	
3/28/93 13:00	396	BDL	
3/29/93 10:00	397	BDL	
3/29/93 18:33	397	BDL	
3/30/93 9:00	398	BDL	
3/30/93 17:00	398	BDL	
3/31/93 10:30	399	BDL	
3/31/93 13:00	399	BDL	
4/1/93 10:00	400	BDL	
4/1/93 13:00	400	BDL	
4/2/93 10:30	401	BDL	
4/2/93 14:00	401	BDL	
4/2/93 14:00	401	BDL	
4/3/93 13:00	402	BDL	
4/4/93 14:00	403	BDL	
4/5/93 11:00	404	BDL	
4/5/93 16:00	404	BDL	
4/6/93 11:30	405	BDL	
4/6/93 13:30	405	BDL	
4/7/93 10:00	406	BDL	
4/7/93 13:00	406	BDL	
4/8/93 10:00	407	BDL	
4/8/93 17:30	407	BDL	
4/8/93 17:30	407	BDL	
4/9/93 13:15	408	BDL	
4/9/93 16:00	408	BDL	
4/10/93 12:00	409	BDL	
4/11/93 10:30	410	BDL	
4/11/93 20:00	410	BDL	
4/12/93 10:08	411	BDL	
4/12/93 10:08	411	BDL	
4/12/93 12:15	411	BDL	
4/13/93 11:00	412	BDL	
4/13/93 15:30	412	BDL	
4/14/93 11:00	413	BDL	
4/14/93 14:00	413	BDL	
4/15/93 10:00	414	BDL	
4/15/93 17:00	414	BDL	
4/16/93 10:30	415	BDL	
4/16/93 16:30	415	BDL	
4/17/93 11:00	416	BDL	
4/17/93 13:00	416	BDL	
4/18/93 12:00	417	BDL	
4/18/93 12:00	417	BDL	
4/19/93 7:30	418	BDL	
4/19/93 14:30	418	BDL	
4/20/93 10:30	419	BDL	

DATES

DAYS

DCE-t (PPM)

DCETINFL.XLS

WSRC DATA & CHART

FILE NAME:

DCETINFL.XLS

t-DCE INFLUENT CONCENTRATIONS

DATES	DAYS	t-1,2-DCE (PPM)
2/26/92 10:42		0 BDL
2/26/92 10:59		0 BDL
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2/26/92 12:20		0 BDL
2/26/92 13:38		0 BDL
2/26/92 15:20		0 BDL
2/26/92 19:30		0 BDL
2/26/92 23:25		1 BDL
2/27/92 3:20		1 BDL
2/27/92 7:20		1 BDL
2/27/92 11:27		1 BDL
2/27/92 15:22		1 BDL
2/28/92 6:23		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:05		3 BDL
2/29/92 19:10		3 BDL
3/1/92 3:12		4 BDL
3/1/92 15:05		4 BDL
3/2/92 7:45		5 BDL
3/2/92 19:00		5 BDL
3/5/92 23:45		9 BDL
3/6/92 0:45		9 BDL
3/6/92 2:45		9 BDL
3/6/92 6:45		9 BDL
3/6/92 10:45		9 BDL
3/6/92 14:45		9 BDL
3/6/92 14:46		9 BDL
3/7/92 7:45		10 BDL
3/7/92 16:45		10 BDL
3/8/92 7:45		11 BDL
3/8/92 16:45		11 BDL
3/9/92 7:45		12 BDL
3/9/92 16:45		12 BDL
3/9/92 16:45		12 BDL
3/10/92 7:45		13 BDL
3/10/92 16:45		13 BDL
3/11/92 7:50		14 BDL
3/11/92 16:45		14 BDL
3/12/92 7:50		15 BDL
3/12/92 7:50		15 BDL
3/12/92 15:45		15 BDL
3/13/92 7:45		16 BDL
3/13/92 16:45		16 BDL
3/14/92 7:45		17 BDL
3/14/92 15:45		17 BDL

DATE	DAYS	DCM (PPM)	DCMINFLU.XLS
4/20/93 13:00	419	BDL	
4/21/93 11:00	420	BDL	
4/21/93 15:00	420	BDL	
4/21/93 15:00	420	BDL	
4/22/93 11:30	421	BDL	
4/24/93 12:00	423	BDL	
4/25/93 18:45	424	BDL	
4/25/93 7:38	#VALUE!	BDL	
4/25/93 18:45	424	0	
4/25/93 18:45	424	BDL	
4/26/93 9:08	425	BDL	
4/26/93 13:18	425	BDL	
4/27/93 7:45	426	BDL	
4/27/93 7:45	426	BDL	
4/27/93 19:15	426	BDL	
4/28/93 9:13	427	BDL	
4/28/93 12:10	427	BDL	
4/29/93 8:15	428	BDL	
4/29/93 16:08	428	BDL	
4/29/93 16:08	428	BDL	
4/30/93 9:12	429	BDL	
4/30/93 17:26	429	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
3/15/92 7:30	18	BDL	
3/15/92 16:15	18	BDL	
3/16/92 7:35	19	BDL	
3/16/92 15:50	19	BDL	
3/17/92 7:50	20	BDL	
3/17/92 16:30	20	BDL	
3/18/92 7:55	21	BDL	
3/18/92 17:00	21	BDL	
3/19/92 7:50	22	BDL	
3/19/92 14:30	22	BDL	
3/20/92 8:00	23	BDL	
3/20/92 17:00	23	BDL	
3/21/92 7:45	24	BDL	
3/21/92 16:00	24	BDL	
3/22/92 7:45	25	BDL	
3/22/92 15:45	25	BDL	
3/23/92 7:45	26	BDL	
3/23/92 15:00	26	BDL	
3/24/92 8:00	27		14
3/24/92 8:00	27	BDL	
3/24/92 16:45	27	BDL	
3/25/92 8:00	28	BDL	
3/25/92 16:30	28	BDL	
3/26/92 7:00	29	BDL	
3/26/92 16:00	29	BDL	
3/27/92 8:00	30	BDL	
3/27/92 17:00	30	BDL	
3/28/92 6:55	31	BDL	
3/28/92 14:00	31	BDL	
3/29/92 6:50	32	BDL	
3/29/92 14:55	32	BDL	
4/2/92 15:00	36	BDL	
4/2/92 15:01	36	BDL	
4/2/92 17:00	36	BDL	
4/2/92 19:00	36		13
4/3/92 8:00	37		13
4/3/92 16:05	37	BDL	
4/4/92 6:45	38	BDL	
4/5/92 8:00	39	BDL	
4/5/92 15:00	39	BDL	
4/5/92 15:00	39	BDL	
4/6/92 9:00	40	BDL	
4/6/92 16:00	40	BDL	
4/7/92 9:00	41	BDL	
4/7/92 16:00	41	BDL	
4/8/92 8:55	42	BDL	
4/8/92 16:00	42	BDL	
4/9/92 7:00	43	BDL	
4/9/92 7:00	43	BDL	
4/9/92 16:00	43	BDL	
4/10/92 7:00	44	BDL	
4/10/92 15:00	44	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
4/10/92 15:00	44	BDL	
4/11/92 7:00	45	BDL	
4/11/92 13:00	45	BDL	
4/12/92 7:00	46	BDL	
4/12/92 13:55	46	BDL	
4/13/92 8:00	47	BDL	
4/13/92 16:00	47	BDL	
4/14/92 8:00	48	BDL	
4/14/92 8:00	48	BDL	
4/14/92 16:00	48	BDL	
4/15/92 8:00	49	BDL	
4/15/92 15:00	49	BDL	
4/16/92 7:00	50	BDL	
4/16/92 15:55	50	BDL	
4/17/92 8:00	51	BDL	
4/17/92 14:00	51	BDL	
4/18/92 7:00	52	BDL	
4/18/92 13:00	52	BDL	
4/19/92 7:00	53	BDL	
4/19/92 7:00	53	BDL	
4/19/92 14:05	53	BDL	
4/20/92 7:00	54	BDL	
4/20/92 9:00	54	BDL	
4/20/92 16:00	54	BDL	
4/21/92 9:00	55	BDL	
4/21/92 16:00	55	BDL	
4/22/92 8:00	56	BDL	
4/22/92 8:00	56	BDL	
4/22/92 16:00	56	BDL	
4/23/92 9:00	57	BDL	
4/23/92 16:00	57	BDL	
4/24/92 9:00	58	BDL	
4/24/92 9:00	58	BDL	
4/24/92 14:00	58	BDL	
4/26/92 8:00	60	BDL	
4/26/92 14:00	60	BDL	
4/27/92 8:00	61	BDL	
4/27/92 15:00	61	BDL	
4/28/92 8:00	62	BDL	
4/28/92 15:00	62	BDL	
4/29/92 8:00	63	BDL	
4/29/92 15:00	63	BDL	
4/30/92 8:00	64	BDL	
4/30/92 16:00	64	BDL	
5/1/92 8:00	65	10	
5/1/92 15:00	65	BDL	
5/2/92 8:00	66	9	
5/3/92 8:00	67	9	
5/3/92 8:00	67	BDL	
5/4/92 8:00	68	BDL	
5/4/92 15:00	68	BDL	
5/5/92 8:00	69	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
5/5/92 15:00	69 BDL		
5/6/92 8:00	70 BDL		
5/6/92 8:00	70 BDL		
5/6/92 16:00	70 BDL		
5/7/92 7:00	71	10	
5/7/92 15:00	71 BDL		
5/8/92 7:00	72 BDL		
5/8/92 7:00	72	9	
5/8/92 13:00	72 BDL		
5/9/92 8:00	73	10	
5/10/92 8:00	74	9	
5/11/92 8:00	75 BDL		
5/11/92 14:00	75 BDL		
5/11/92 14:00	75 BDL		
5/12/92 8:00	76 BDL		
5/12/92 14:00	76 BDL		
5/13/92 8:00	77 BDL		
5/13/92 14:00	77 BDL		
5/14/92 7:00	78	9	
5/14/92 15:00	78 BDL		
5/15/92 7:00	79	9	
5/15/92 14:00	79 BDL		
5/16/92 10:00	80	9	
5/16/92 10:00	80 BDL		
5/17/92 8:00	81	9	
5/18/92 17:05	82 BDL		
5/19/92 8:00	83 BDL		
5/19/92 15:00	83 BDL		
5/20/92 8:00	84 BDL		
5/20/92 15:00	84 BDL		
5/21/92 8:00	85 BDL		
5/21/92 14:30	85 BDL		
5/22/92 7:00	86 BDL		
5/22/92 7:00	86 BDL		
5/22/92 13:05	86 BDL		
5/23/92 8:00	87 BDL		
5/24/92 8:00	88 BDL		
5/25/92 8:00	89 BDL		
5/25/92 8:00	89 BDL		
5/25/92 17:00	89 BDL		
5/26/92 8:00	90 BDL		
5/26/92 14:00	90 BDL		
5/27/92 8:00	91 BDL		
5/27/92 13:00	91 BDL		
5/28/92 8:00	92 BDL		
5/28/92 16:00	92 BDL		
5/29/92 6:05	93 BDL		
5/30/92 8:00	94 BDL		
5/31/92 10:00	95 BDL		
6/1/92 8:00	96 BDL		
6/1/92 14:00	96 BDL		
6/2/92 8:00	97 BDL		

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
6/2/92 14:00	97	BDL	
6/3/92 8:00	98	BDL	
6/3/92 14:00	98	BDL	
6/4/92 8:00	99	BDL	
6/4/92 14:00	99	BDL	
6/5/92 8:00	100	BDL	
6/6/92 16:00	101	BDL	
6/6/92 16:00	101	BDL	
6/7/92 11:00	102	BDL	
6/8/92 8:00	103	BDL	
6/10/92 8:00	105	BDL	
6/10/92 14:00	105	BDL	
6/11/92 8:00	106	BDL	
6/11/92 14:00	106	BDL	
6/11/92 14:00	106	BDL	
6/12/92 8:00	107	BDL	
6/12/92 12:00	107	BDL	
6/13/92 12:00	108	BDL	
6/13/92 12:00	108	BDL	
6/14/92 13:00	109	BDL	
6/15/92 9:30	110	BDL	
6/15/92 15:00	110	BDL	
6/16/92 8:00	111	BDL	
6/16/92 14:00	111	BDL	
6/17/92 8:00	112		
6/17/92 8:00	112	BDL	
6/17/92 8:00	112	BDL	
6/17/92 8:05	112		
6/17/92 13:00	112		
6/17/92 13:00	112	BDL	
6/18/92 8:00	113	BDL	
6/18/92 8:05	113		
6/18/92 8:05	113		
6/18/92 16:25	113	BDL	
6/19/92 9:08	114	BDL	
6/19/92 9:08	114	BDL	
6/19/92 9:21	114		
6/19/92 9:21	114		
6/19/92 12:15	114	BDL	
6/23/92 8:30	118	BDL	
6/23/92 13:30	118	BDL	
6/24/92 8:00	119	BDL	
6/24/92 8:00	119	BDL	
6/24/92 12:00	119	BDL	
6/25/92 8:00	120	BDL	
6/25/92 12:30	120	BDL	
6/26/92 8:30	121	BNDL	
6/26/92 13:00	121	BDL	
6/27/92 11:30	122	BDL	
6/27/92 11:30	122	BDL	
6/28/92 11:30	123	BDL	
6/29/92 7:30	124	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
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6/29/92 13:00	124	BDL	
6/30/92 9:00	125	BDL	
6/30/92 14:00	125	BDL	
7/1/92 9:30	126	BDL	
7/1/92 9:30	126	BDL	
7/1/92 14:00	126	BDL	
7/2/92 8:00	127	BDL	
7/2/92 13:30	127	BDL	
7/3/92 8:00	128	BDL	
7/3/92 8:00	128	BDL	
7/3/92 12:00	128	BDL	
7/4/92 11:00	129	BDL	
7/5/92 11:00	130	BDL	
7/6/92 9:00	131	BDL	
7/6/92 15:00	131	BDL	
7/6/92 15:00	131	BDL	
7/7/92 9:30	132	BDL	
7/8/92 8:00	133	BDL	
7/8/92 15:00	133	BDL	
7/9/92 9:00	134	BDL	
7/9/92 14:00	134	BDL	
7/10/92 10:00	135	BDL	
7/10/92 13:00	135	BDL	
7/11/92 9:30	136	BDL	
7/12/92 10:15	137	BDL	
7/13/92 8:40	138		
7/13/92 8:40	138	BDL	
7/13/92 13:35	138	BDL	
7/14/92 8:40	139	BDL	
7/14/92 13:25	139	BDL	
7/15/92 8:11	140	BDL	
7/15/92 13:31	140	BDL	
7/16/92 8:10	141	BDL	
7/16/92 13:58	141	BDL	
7/17/92 9:45	142	BDL	
7/17/92 9:45	142	BDL	
7/17/92 13:29	142	BDL	
7/18/92 8:05	143	BDL	
7/19/91 8:02	-222	BDL	
7/20/92 7:45	145	BDL	
7/20/92 13:00	145	BDL	
7/21/92 9:10	146	BDL	
7/21/92 13:30	146	BDL	
7/22/92 8:39	147	BDL	
7/22/92 13:35	147	BDL	
7/23/92 8:02	148	BDL	
7/23/92 13:30	148	BDL	
7/24/92 7:50	149	BDL	
7/24/92 7:50	149	BDL	
7/24/92 13:00	149	BDL	
7/25/92 8:10	150	BDL	
7/26/92 9:30	151	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
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7/27/92 8:00	152	BDL	
7/27/92 8:00	152	BDL	
7/27/92 13:00	152	BDL	
7/28/92 10:00	153	BDL	
7/28/92 12:00	153	BDL	
7/29/92 9:00	154	BDL	
7/29/92 13:00	154	BDL	
7/30/92 7:00	155	BDL	
7/30/92 12:00	155	BDL	
7/31/92 9:00	156	BDL	
7/31/92 12:00	156	BDL	
8/6/92 8:00	162	BDL	
8/6/92 12:00	162	BDL	
8/7/92 8:20	163	BDL	
8/7/92 13:22	163	BDL	
8/8/92 9:30	164	BDL	
8/9/92 8:00	165	BDL	
8/10/92 7:35	166	BDL	
8/10/92 13:20	166	BDL	
8/11/92 8:00	167	BDL	
8/11/92 8:00	167	BDL	
8/11/92 13:00	167	BDL	
8/12/92 7:50	168	BDL	
8/12/92 12:26	168	BDL	
8/13/92 8:20	169	BDL	
8/13/92 15:00	169	BDL	
8/14/92 8:15	170	BDL	
8/14/92 13:00	170	BDL	
8/15/92 8:20	171	BDL	
8/16/92 8:15	172	BDL	
8/17/92 9:00	173	BDL	
8/17/92 9:00	173	BDL	
8/17/92 14:30	173	BDL	
8/18/92 8:25	174	BDL	
8/18/92 14:00	174	BDL	
8/19/92 8:10	175	BDL	
8/20/92 17:00	176	BDL	
8/21/92 8:00	177	BDL	
8/21/92 13:30	177	BDL	
8/22/92 9:30	178	BDL	
8/23/92 10:00	179	BDL	
8/24/92 8:16	180	BDL	
8/24/92 13:30	180	BDL	
8/25/92 8:50	181	BDL	
8/25/92 14:00	181	BDL	
8/26/92 8:30	182	BDL	
8/26/92 13:30	182	BDL	
8/27/92 8:00	183	BDL	
8/27/92 13:30	183	BDL	
8/27/92 13:30	183	BDL	
8/28/92 8:30	184	BDL	
8/28/92 13:00	184	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
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8/28/92 13:00	184	BDL	
8/29/92 9:00	185	BDL	
8/30/92 9:00	186	BDL	
8/31/92 8:30	187	BDL	
8/31/92 13:00	187	BDL	
9/1/92 21:25	188	BDL	
9/2/92 9:31	189	BDL	
9/2/92 9:31	189	BDL	
9/3/92 8:00	190	BDL	
9/3/92 13:40	190	BDL	
9/4/92 8:30	191	BDL	
9/4/92 12:00	191	BDL	
9/5/92 13:00	192	BDL	
9/6/92 9:55	193	BDL	
9/6/92 9:55	193	BDL	
9/7/92 10:00	194	BDL	
9/7/92 12:30	194	BDL	
9/8/92 8:55	195	BDL	
9/8/92 12:55	195	BDL	
9/9/92 8:55	196	BDL	
9/9/92 12:00	196	BDL	
9/9/92 12:00	196	BDL	
9/10/92 8:00	197	BDL	
9/10/92 12:00	197	BDL	
9/11/92 8:00	198	BDL	
9/11/92 12:00	198	BDL	
9/11/92 12:00	198	BDL	
9/12/92 9:00	199	BDL	
9/13/92 9:00	200	DUE	
9/14/92 9:00	201	BDL	
9/14/92 16:05	201	BDL	
9/15/92 9:00	202	BDL	
9/15/92 13:00	202	BDL	
9/16/92 9:40	203	BDL	
9/16/92 13:45	203	BDL	
9/17/92 8:30	204	BDL	
9/17/92 8:30	204	BDL	
9/17/92 14:00	204	BDL	
9/18/92 9:00	205	BDL	
9/18/92 13:30	205	BDL	
9/19/92 9:00	206	BDL	
9/20/92 10:30	207	BDL	
9/21/92 10:00	208	BDL	
9/21/92 13:30	-177	BDL	
9/21/92 14:00	208	BDL	
9/22/92 8:30	209	BDL	
9/22/92 8:30	209	BDL	
9/22/92 13:00	209	BDL	
9/23/92 8:30	210	BDL	
9/23/92 13:00	210	BDL	
9/24/92 8:15	211	BDL	
9/24/92 13:00	211	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
9/27/92 8:30	214	BDL	
9/28/92 8:00	215	BDL	
9/28/92 13:00	215	BDL	
9/29/92 8:30	216	BDL	
9/29/92 8:30	216	BDL	
9/29/92 14:30	216	BDL	
10/1/92 9:30	218	BDL	
10/1/92 14:00	218	BDL	
10/2/92 8:30	219	BDL	
10/2/92 13:00	219	BDL	
10/2/92 13:00	219	BDL	
10/3/92 9:30	220	BDL	
10/4/92 8:28	221	BDL	
10/4/92 8:28	221	BDL	
10/5/92 8:30	222	BDL	
10/5/92 13:30	222	BDL	
10/6/92 9:00	223	BDL	
10/6/92 13:30	223	BDL	
10/7/92 9:00	224	BDL	
10/7/92 13:30	224	BDL	
10/7/92 13:30	224	BDL	
10/8/92 9:30	225	BDL	
10/8/92 14:00	225	BDL	
10/9/92 9:00	226	BDL	
10/9/92 13:30	226	BDL	
10/10/92 10:30	227	BDL	
10/11/92 9:30	228	BDL	
10/15/92 10:00	232	BDL	
10/15/92 13:00	232	BDL	
10/15/92 13:00	232	BDL	
10/16/92 9:00	233	BDL	
10/16/92 13:00	233	BDL	
10/17/92 9:23	234	BDL	
10/18/92 9:30	235	BDL	
10/19/92 9:30	236	BDL	
10/19/92 13:30	236	BDL	
10/19/92 13:30	236	BDL	
10/20/92 9:30	237	BDL	
10/20/92 13:30	237	BDL	
10/21/92 9:30	238	BDL	
10/21/92 13:00	238	BDL	
10/22/92 9:00	239	BDL	
10/22/92 12:00	239	BDL	
10/22/92 12:00	239	BDL	
10/23/92 9:30	240	BDL	
10/23/92 14:00	240	BDL	
10/24/92 10:30	241	BDL	
10/25/92 9:07	242	BDL	
10/26/92 9:00	243	BDL	
10/26/92 15:00	243	BDL	
10/27/92 9:00	244	BDL	
10/27/92 14:30	244	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
10/28/92 9:07	245	BDL	
10/28/92 13:30	245	BDL	
10/29/92 9:00	246	BDL	
10/29/92 13:00	246	BDL	
10/30/92 10:25	247	BDL	
10/30/92 18:00	247	BDL	
10/31/92 11:00	248	BDL	
10/31/92 11:00	248	BDL	
11/1/92 14:00	249	BDL	
11/2/92 10:00	250	BDL	
11/2/92 15:00	250	BDL	
11/3/92 9:30	251	BDL	
11/3/92 17:30	251	BDL	
11/4/92 9:33	252	BDL	
11/4/92 9:33	252	BDL	
11/4/92 14:00	252	BDL	
11/5/92 9:30	253	BDL	
11/5/92 13:00	253	BDL	
11/6/92 9:30	254	BDL	
11/6/92 9:30	254	BDL	
11/6/92 14:00	254	BDL	
11/7/92 9:30	255	BDL	
11/8/92 10:30	256	BDL	
11/8/92 10:30	256	BDL	
11/9/92 9:30	257	BDL	
11/9/92 13:30	257	BDL	
11/10/92 10:00	258	BDL	
11/10/92 14:00	258	BDL	
11/11/92 19:32	259	BDL	
11/12/92 9:30	260	BDL	
11/12/92 9:30	260	BDL	
11/12/92 13:00	260	BDL	
11/13/92 9:30	261	BDL	
11/13/92 13:00	261	BDL	
11/14/92 15:00	262	BDL	
11/15/92 13:00	263	BDL	
11/16/92 9:30	264	BDL	
11/16/92 13:00	264	BDL	
11/17/92 10:00	265	BDL	
11/17/92 10:00	265	BDL	
11/17/92 14:30	265	BDL	
11/18/92 9:00	266	BDL	
11/18/92 13:00	266	BDL	
11/19/92 9:00	267	BDL	
11/19/92 13:00	267	BDL	
11/20/92 10:00	268	BDL	
11/20/92 14:00	268	BDL	
11/21/92 12:00	269	BDL	
11/21/92 12:00	269	BDL	
11/22/92 12:00	270	BDL	
12/14/92 10:00	292	BDL	
12/14/92 15:00	292	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
12/15/92 9:30	293	BDL	
12/15/92 13:30	293	BDL	
12/16/92 9:00	294	BDL	
12/16/92 14:00	294	BDL	
12/17/92 9:00	295	BDL	
12/17/92 13:00	295	BDL	
12/18/92 9:30	296	BDL	
12/18/92 13:00	296	BDL	
12/19/92 17:30	297	BDL	
12/19/92 17:30	297	BDL	
12/20/92 10:30	298	BDL	
12/21/92 10:00	299	BDL	
12/21/92 14:30	299	BDL	
12/22/92 10:00	300	BDL	
12/22/92 13:30	300	BDL	
12/23/92 9:00	301	BDL	
12/23/92 14:00	301	BDL	
12/24/92 10:30	302	BDL	
12/24/92 12:30	302	BDL	
12/26/92 13:00	304	BDL	
12/26/92 13:00	304	BDL	
12/27/92 12:30	305	BDL	
12/28/92 16:30	306	BDL	
12/29/92 11:00	307	BDL	
12/29/92 14:00	307	BDL	
12/30/92 10:00	308	BDL	
12/30/92 14:30	308	BDL	
12/31/92 11:00	309	BDL	
12/31/92 12:00	309	BDL	
1/2/93 12:00	311	BDL	
1/2/93 12:00	311	BDL	
1/3/93 15:00	312	BDL	
1/4/93 10:30	313	BDL	
1/4/93 14:30	313	BDL	
1/5/93 9:30	314	BDL	
1/5/93 14:00	314	BDL	
1/6/93 9:30	315	BDL	
1/6/93 9:30	315	BDL	
1/6/93 14:30	315	BDL	
1/7/93 10:00	316	BDL	
1/7/93 13:30	316	BDL	
1/8/93 9:30	317	BDL	
1/8/93 13:30	317	BDL	
1/9/93 12:00	318	BDL	
1/10/93 14:30	319	BDL	
1/11/93 11:00	320	BDL	
1/11/93 14:30	320	BDL	
1/12/93 11:30	321	BDL	
1/12/93 11:30	321	BDL	
1/12/93 14:30	321	BDL	
1/13/93 8:30	322	BDL	
1/14/93 10:30	323	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
1/15/93 10:30	324	BDL	
1/26/93 16:00	335	BDL	
1/26/93 16:00	335	BDL	
1/27/93 10:30	336	BDL	
1/28/93 9:30	337	BDL	
1/29/93 8:30	338	BDL	
1/29/93 8:30	338	BDL	
1/31/93 11:00	340	BDL	
2/1/93 10:30	341	BDL	
2/1/93 13:30	341	BDL	
2/1/93 13:30	341	BDL	
2/2/93 9:15	342	BDL	
2/2/93 14:00	342	BDL	
2/3/93 9:30	343	BDL	
2/3/93 15:00	343	BDL	
2/4/93 10:00	344	BDL	
2/4/93 10:00	344	BDL	
2/4/93 15:00	344	BDL	
2/5/93 10:00	345	BDL	
2/5/93 15:30	345	BDL	
2/7/93 15:00	347	BDL	
2/8/93 10:30	348	BDL	
2/8/93 10:30	348	BDL	
2/8/93 15:00	348	BDL	
2/9/93 10:30	349	BDL	
2/10/93 13:00	350	BDL	
2/11/93 9:00	351	BDL	
2/11/93 9:00	351	BDL	
2/11/93 14:00	351	BDL	
2/12/93 10:00	352	BDL	
2/12/93 16:00	352	BDL	
2/13/93 11:30	353	BDL	
2/14/93 19:00	354	BDL	
2/15/93 9:00	355	BDL	
2/15/93 9:00	355	BDL	
2/15/93 14:30	355	BDL	
2/16/93 9:00	356	BDL	
2/16/93 14:30	356	BDL	
2/17/93 9:00	357	BDL	
2/17/93 15:00	357	BDL	
2/18/93 10:00	358	BDL	
2/18/93 14:00	358	BDL	
2/19/93 9:30	359	BDL	
2/19/93 14:00	359	BDL	
2/24/93 11:00	364	BDL	
2/24/93 15:50	364	BDL	
2/25/93 9:30	365	BDL	
2/25/93 13:55	365	BDL	
2/25/93 13:55	365	BDL	
2/26/93 9:30	366	BDL	
2/26/93 13:30	366	BDL	
2/27/93 13:00	367	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
2/28/93 10:00	368	BDL	
2/28/93 10:00	368	BDL	
2/28/93 15:45	368	BDL	
3/1/93 10:00	369	BDL	
3/1/93 15:00	369	BDL	
3/2/93 8:30	370	BDL	
3/2/93 15:00	370	BDL	
3/3/93 10:00	371	BDL	
3/3/93 14:00	371	BDL	
3/4/93 10:00	372	BDL	
3/4/93 13:30	372	BDL	
3/5/93 9:30	373	BDL	
3/5/93 14:30	373	BDL	
3/5/93 14:30	373	BDL	
3/6/93 10:00	374	BDL	
3/6/93 10:00	374	BDL	
3/6/93 16:30	374	BDL	
3/7/93 13:00	375	BDL	
3/8/93 10:30	376	BDL	
3/8/93 16:00	376	BDL	
3/9/93 10:00	377	BDL	
3/9/93 14:00	377	BDL	
3/9/93 14:00	377	BDL	
3/10/93 9:30	378	BDL	
3/10/93 13:00	378	BDL	
3/11/93 8:00	379	BDL	
3/11/93 12:00	379	BDL	
3/12/93 10:00	380	BDL	
3/12/93 10:00	380	BDL	
3/12/93 14:00	380	BDL	
3/13/93 13:00	381	BDL	
3/14/93 15:00	382	BDL	
3/15/93 14:00	383	BDL	
3/16/93 9:30	384	BDL	
3/16/93 15:30	384	BDL	
3/17/93 9:00	385	BDL	
3/17/93 13:00	385	BDL	
3/18/93 9:00	386	BDL	
3/18/93 13:00	386	BDL	
3/19/93 10:30	387	BDL	
3/19/93 14:00	387	BDL	
3/20/93 9:30	388	BDL	
3/20/93 13:00	388	BDL	
3/21/93 9:30	389	BDL	
3/22/93 9:30	390	BDL	
3/22/93 15:00	390	BDL	
3/23/93 11:00	391	BDL	
3/23/93 11:00	391	BDL	
3/23/93 15:00	391	BDL	
3/24/93 7:00	392	BDL	
3/24/93 16:00	392	BDL	
3/25/93 9:30	393	BDL	

DATES	DAYS	DCE-t (PPM)	DCETINFL.XLS
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3/25/93 9:30	393	BDL	
3/25/93 13:30	393	BDL	
3/26/93 9:00	394	BDL	
3/26/93 13:00	394	BDL	
3/27/93 11:00	395	BDL	
3/28/93 9:00	396	BDL	
3/28/93 9:00	396	BDL	
3/28/93 13:00	396	BDL	
3/29/93 10:00	397	BDL	
3/29/93 18:33	397	BDL	
3/30/93 9:00	398	BDL	
3/30/93 17:00	398	BDL	
3/31/93 10:30	399	BDL	
3/31/93 13:00	399	BDL	
4/1/93 10:00	400	BDL	
4/1/93 13:00	400	BDL	
4/2/93 10:30	401	BDL	
4/2/93 14:00	401	BDL	
4/2/93 14:00	401	BDL	
4/3/93 13:00	402	BDL	
4/4/93 14:00	403	BDL	
4/5/93 11:00	404	BDL	
4/5/93 16:00	404	BDL	
4/6/93 11:30	405	BDL	
4/6/93 13:30	405	BDL	
4/7/93 10:00	406	BDL	
4/7/93 13:00	406	BDL	
4/8/93 10:00	407	BDL	
4/8/93 17:30	407	BDL	
4/8/93 17:30	407	BDL	
4/9/93 13:15	408	BDL	
4/9/93 16:00	408	BDL	
4/10/93 12:00	409	BDL	
4/11/93 10:30	410	BDL	
4/11/93 20:00	410	BDL	
4/12/93 10:08	411	BDL	
4/12/93 10:08	411	BDL	
4/12/93 12:15	411	BDL	
4/13/93 11:00	412	BDL	
4/13/93 15:30	412	BDL	
4/14/93 11:00	413	BDL	
4/14/93 14:00	413	BDL	
4/15/93 10:00	414	BDL	
4/15/93 17:00	414	BDL	
4/16/93 10:30	415	BDL	
4/16/93 16:30	415	BDL	
4/17/93 11:00	416	BDL	
4/17/93 13:00	416	BDL	
4/18/93 12:00	417	BDL	
4/18/93 12:00	417	BDL	
4/19/93 7:30	418	BDL	
4/19/93 14:30	418	BDL	

DATES	DAYS	DCE-I (PPM)	DCETINFL.XLS
4/20/93 10:30	419 BDL		
4/20/93 13:00	419 BDL		
4/21/93 11:00	420 BDL		
4/21/93 15:00	420 BDL		
4/21/93 15:00	420 BDL		
4/22/93 11:30	421 BDL		
4/24/93 12:00	423 BDL		
4/25/93 18:45	424 BDL		
4/25/93 7:38	#VALUE! BDL		
4/25/93 18:45	424	0	
4/25/93 18:45	424 BDL		
4/26/93 9:08	425 BDL		
4/26/93 13:18	425 BDL		
4/27/93 7:45	426 BDL		
4/27/93 7:45	426 BDL		
4/27/93 19:15	426 BDL		
4/28/93 9:13	427 BDL		
4/28/93 12:10	427 BDL		
4/29/93 8:15	428 BDL		
4/29/93 16:08	428 BDL		
4/29/93 16:08	428 BDL		
4/30/93 9:12	429 BDL		

DATES

DAYS

DCE-c (PPM)

DCECINFL.XLS

WSRC DATA & CHART

FILE NAME:

DCECINFL.XLS

c-DCE INFLUENT CONCENTRATIONS

DATES	DAYS	c-1,2-DCE DCE-c (PPM)
-------	------	--------------------------

2/26/92 10:42		0 BDL
2/26/92 10:59		0 BDL
2/26/92 11:20		0 BDL
2/26/92 12:20		0 BDL
2/26/92 13:38		0 BDL
2/26/92 15:20		0 BDL
2/26/92 19:30		0 BDL
2/26/92 23:25		1 BDL
2/27/92 3:20		1 BDL
2/27/92 7:20		1 BDL
2/27/92 11:27		1 BDL
2/27/92 15:22		1 BDL
2/28/92 6:23		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:05		3 BDL
2/29/92 19:10		3 BDL
3/1/92 3:12		4 BDL
3/1/92 15:05		4 BDL
3/2/92 7:45		5 BDL
3/2/92 19:00		5 BDL
3/5/92 23:45		9 BDL
3/6/92 0:45		9 BDL
3/6/92 2:45		9 BDL
3/6/92 6:45		9 BDL
3/6/92 10:45		9 BDL
3/6/92 14:45		9 BDL
3/6/92 14:46		9 BDL
3/7/92 7:45		10 BDL
3/7/92 16:45		10 BDL
3/8/92 7:45		11 BDL
3/8/92 16:45		11 BDL
3/9/92 7:45		12 BDL
3/9/92 16:45		12 BDL
3/9/92 16:45		12 BDL
3/10/92 7:45		13 BDL
3/10/92 16:45		13 BDL
3/11/92 7:50		14 BDL
3/11/92 16:45		14 BDL
3/12/92 7:50		15 BDL
3/12/92 7:50		15 BDL
3/12/92 15:45		15 BDL
3/13/92 7:45		16 BDL
3/13/92 16:45		16 BDL
3/14/92 7:45		17 BDL
3/14/92 15:45		17 BDL

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
3/15/92 7:30	18	BDL	
3/15/92 16:15	18	BDL	
3/16/92 7:35	19	BDL	
3/16/92 15:50	19	BDL	
3/17/92 7:50	20	BDL	
3/17/92 16:30	20	BDL	
3/18/92 7:55	21	BDL	
3/18/92 17:00	21	BDL	
3/19/92 7:50	22	BDL	
3/19/92 14:30	22	BDL	
3/20/92 8:00	23	BDL	
3/20/92 17:00	23	BDL	
3/21/92 7:45	24	BDL	
3/21/92 16:00	24	BDL	
3/22/92 7:45	25	BDL	
3/22/92 15:45	25	BDL	
3/23/92 7:45	26	BDL	
3/23/92 15:00	26	BDL	
3/24/92 8:00	27	BDL	
3/24/92 8:00	27	BDL	
3/24/92 16:45	27	BDL	
3/25/92 8:00	28	BDL	
3/25/92 16:30	28	BDL	
3/26/92 7:00	29	BDL	
3/26/92 16:00	29	BDL	
3/27/92 8:00	30	BDL	
3/27/92 17:00	30	BDL	
3/28/92 6:55	31	BDL	
3/28/92 14:00	31	BDL	
3/29/92 6:50	32	BDL	
3/29/92 14:55	32	BDL	
4/2/92 15:00	36	BDL	
4/2/92 15:01	36	BDL	
4/2/92 17:00	36	BDL	
4/2/92 19:00	36	BDL	
4/3/92 8:00	37	BDL	
4/3/92 16:05	37	BDL	
4/4/92 6:45	38	BDL	
4/5/92 8:00	39	BDL	
4/5/92 15:00	39	BDL	
4/5/92 15:00	39	BDL	
4/6/92 9:00	40		14
4/6/92 16:00	40	BDL	
4/7/92 9:00	41		12
4/7/92 16:00	41		13
4/8/92 8:55	42	BDL	
4/8/92 16:00	42		12
4/9/92 7:00	43		12
4/9/92 7:00	43	BDL	
4/9/92 16:00	43	BDL	
4/10/92 7:00	44		13
4/10/92 15:00	44	BDL	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
4/10/92 15:00	44 BDL		
4/11/92 7:00	45 BDL		
4/11/92 13:00	45 BDL		
4/12/92 7:00	46	13	
4/12/92 13:55	46 BDL		
4/13/92 8:00	47	12	
4/13/92 16:00	47 BDL		
4/14/92 8:00	48 BDL		
4/14/92 8:00	48 BDL		
4/14/92 16:00	48 BDL		
4/15/92 8:00	49	13	
4/15/92 15:00	49 BDL		
4/16/92 7:00	50 BDL		
4/16/92 15:55	50 BDL		
4/17/92 8:00	51 BDL		
4/17/92 14:00	51 BDL		
4/18/92 7:00	52	13	
4/18/92 13:00	52 BDL		
4/19/92 7:00	53	13	
4/19/92 7:00	53 BDL		
4/19/92 14:05	53	12	
4/20/92 7:00	54 BDL		
4/20/92 9:00	54 BDL		
4/20/92 16:00	54 BDL		
4/21/92 9:00	55 BDL		
4/21/92 16:00	55 BDL		
4/22/92 8:00	56 BDL		
4/22/92 8:00	56 BDL		
4/22/92 16:00	56 BDL		
4/23/92 9:00	57 BDL		
4/23/92 16:00	57 BDL		
4/24/92 9:00	58	9	
4/24/92 9:00	58 BDL		
4/24/92 14:00	58 BDL		
4/26/92 8:00	60	10	
4/26/92 14:00	60	9	
4/27/92 8:00	61 BDL		
4/27/92 15:00	61 BDL		
4/28/92 8:00	62 BDL		
4/28/92 15:00	62 BDL		
4/29/92 8:00	63 bdl		
4/29/92 15:00	63 BDL		
4/30/92 8:00	64	10	
4/30/92 16:00	64 BDL		
5/1/92 8:00	65	11	
5/1/92 15:00	65 BDL		
5/2/92 8:00	66	11	
5/3/92 8:00	67	10	
5/3/92 8:00	67 BDL		
5/4/92 8:00	68 BDL		
5/4/92 15:00	68 BDL		
5/5/92 8:00	69	9

AIIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910

301/587-8202

Centimeter

Inches

MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.

6 of 7

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
5/5/92 15:00	69 BDL		
5/6/92 8:00	70	10	
5/6/92 8:00	70 BDL		
5/6/92 16:00	70 BDL		
5/7/92 7:00	71	11	
5/7/92 15:00	71 BDL		
5/8/92 7:00	72 BDL		
5/8/92 7:00	72	11	
5/8/92 13:00	72 BDL		
5/9/92 8:00	73	11	
5/10/92 8:00	74	11	
5/11/92 8:00	75	10	
5/11/92 14:00	75	10	
5/11/92 14:00	75	10	
5/12/92 8:00	76 BDL		
5/12/92 14:00	76	9	
5/13/92 8:00	77 BDL		
5/13/92 14:00	77 BDL		
5/14/92 7:00	78	11	
5/14/92 15:00	78	9	
5/15/92 7:00	79	11	
5/15/92 14:00	79 BDL		
5/16/92 10:00	80	11	
5/16/92 10:00	80	10	
5/17/92 8:00	81	10	
5/18/92 17:05	82 BDL		
5/19/92 8:00	83	10	
5/19/92 15:00	83 BDL		
5/20/92 8:00	84	9	
5/20/92 15:00	84	9	
5/21/92 8:00	85	5	
5/21/92 14:30	85 BDL		
5/22/92 7:00	86 BDL		
5/22/92 7:00	86 BDL		
5/22/92 13:05	86 BDL		
5/23/92 8:00	87 BDL		
5/24/92 8:00	88 BDL		
5/25/92 8:00	89 BDL		
5/25/92 8:00	89 BDL		
5/25/92 17:00	89 BDL		
5/26/92 8:00	90 BDL		
5/26/92 14:00	90 BDL		
5/27/92 8:00	91 BDL		
5/27/92 13:00	91 BDL		
5/28/92 8:00	92 BDL		
5/28/92 16:00	92 BDL		
5/29/92 6:05	93 BDL		
5/30/92 8:00	94 BDL		
5/31/92 10:00	95 BDL		
6/1/92 8:00	96 BDL		
6/1/92 14:00	96 BDL		
6/2/92 8:00	97 BDL		

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
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6/2/92 14:00	97 BDL		
6/3/92 8:00	98 BDL		
6/3/92 14:00	98 BDL		
6/4/92 8:00	99 BDL		
6/4/92 14:00	99 BDL		
6/5/92 8:00	100 BDL		
6/6/92 16:00	101 BDL		
6/6/92 16:00	101 BDL		
6/7/92 11:00	102 BDL		
6/8/92 8:00	103 BDL		
6/10/92 8:00	105 BDL		
6/10/92 14:00	105 BDL		
6/11/92 8:00	106 BDL		
6/11/92 14:00	106 BDL		
6/11/92 14:00	106 BDL		
6/12/92 8:00	107 BDL		
6/12/92 12:00	107 BDL		
6/13/92 12:00	108	7	
6/13/92 12:00	108	7	
6/14/92 13:00	109 BDL		
6/15/92 9:30	110 BDL		
6/15/92 15:00	110 BDL		
6/16/92 8:00	111	7	
6/16/92 14:00	111	6	
6/17/92 8:00	112		
6/17/92 8:00	112 BDL		
6/17/92 8:00	112	6	
6/17/92 8:05	112		
6/17/92 13:00	112		
6/17/92 13:00	112	6	
6/18/92 8:00	113	6	
6/18/92 8:05	113		
6/18/92 8:05	113		
6/18/92 16:25	113	7	
6/19/92 9:08	114	3.9	
6/19/92 9:08	114	3.8	
6/19/92 9:21	114		
6/19/92 9:21	114		
6/19/92 12:15	114	6.3	
6/23/92 8:30	118 BDL		
6/23/92 13:30	118 BDL		
6/24/92 8:00	119 BDL		
6/24/92 8:00	119 BDL		
6/24/92 12:00	119 BDL		
6/25/92 8:00	120 BDL		
6/25/92 12:30	120	6	
6/26/92 8:30	121	6	
6/26/92 13:00	121 BDL		
6/27/92 11:30	122	7	
6/27/92 11:30	122 BDL		
6/28/92 11:30	123	6	
6/29/92 7:30	124 BDL		

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
6/29/92 13:00	124 BDL		
6/30/92 9:00	125 BDL		
6/30/92 14:00	125 BDL		
7/1/92 9:30	126	6	
7/1/92 9:30	126 BDL		
7/1/92 14:00	126 BDL		
7/2/92 8:00	127	6	
7/2/92 13:30	127 BDL		
7/3/92 8:00	128	7	
7/3/92 8:00	128 BDL		
7/3/92 12:00	128	6	
7/4/92 11:00	129	6	
7/5/92 11:00	130 BDL		
7/6/92 9:00	131 BDL		
7/6/92 15:00	131	6	
7/6/92 15:00	131 BDL		
7/7/92 9:30	132 BDL		
7/8/92 8:00	133 BDL		
7/8/92 15:00	133 BDL		
7/9/92 9:00	134 BDL		
7/9/92 14:00	134 BDL		
7/10/92 10:00	135	7	
7/10/92 13:00	135	6	
7/11/92 9:30	136 BDL		
7/12/92 10:15	137	7	
7/13/92 8:40	138		
7/13/92 8:40	138 BDL		
7/13/92 13:35	138 BDL		
7/14/92 8:40	139	7	
7/14/92 13:25	139	6	
7/15/92 8:11	140	6	
7/15/92 13:31	140	6	
7/16/92 8:10	141 BDL		
7/16/92 13:58	141	6	
7/17/92 9:45	142 BDL		
7/17/92 9:45	142 BDL		
7/17/92 13:29	142	6	
7/18/92 8:05	143	6	
7/19/91 8:02	-222 BDL		
7/20/92 7:45	145	6	
7/20/92 13:00	145 BDL		
7/21/92 9:10	146 BDL		
7/21/92 13:30	146	6	
7/22/92 8:39	147	6	
7/22/92 13:35	147	6	
7/23/92 8:02	148	6	
7/23/92 13:30	148	7	
7/24/92 7:50	149	6	
7/24/92 7:50	149	6	
7/24/92 13:00	149	6	
7/25/92 8:10	150	6	
7/26/92 9:30	151 BDL		

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
7/27/92 8:00	152	6	
7/27/92 8:00	152 BDL		
7/27/92 13:00	152	6	
7/28/92 10:00	153 BDL		
7/28/92 12:00	153	6	
7/29/92 9:00	154	6	
7/29/92 13:00	154	6	
7/30/92 7:00	155 BDL		
7/30/92 12:00	155 BDL		
7/31/92 9:00	156 BDL		
7/31/92 12:00	156	6	
8/6/92 8:00	162 BDL		
8/6/92 12:00	162 BDL		
8/7/92 8:20	163	6	
8/7/92 13:22	163 BDL		
8/8/92 9:30	164 BDL		
8/9/92 8:00	165 BDL		
8/10/92 7:35	166 BDL		
8/10/92 13:20	166 BDL		
8/11/92 8:00	167 BDL		
8/11/92 8:00	167 BDL		
8/11/92 13:00	167	6	
8/12/92 7:50	168 BDL		
8/12/92 12:26	168	6	
8/13/92 8:20	169	6	
8/13/92 15:00	169 BDL		
8/14/92 8:15	170	6	
8/14/92 13:00	170 BDL		
8/15/92 8:20	171 BDL		
8/16/92 8:15	172 BDL		
8/17/92 9:00	173 BDL		
8/17/92 9:00	173 BDL		
8/17/92 14:30	173	6	
8/18/92 8:25	174 BDL		
8/18/92 14:00	174	6	
8/19/92 8:10	175 BDL		
8/20/92 17:00	176 BDL		
8/21/92 8:00	177 BDL		
8/21/92 13:30	177 BDL		
8/22/92 9:30	178 BDL		
8/23/92 10:00	179 BDL		
8/24/92 8:16	180 BDL		
8/24/92 13:30	180 BDL		
8/25/92 8:50	181 BDL		
8/25/92 14:00	181	6	
8/26/92 8:30	182 BDL		
8/26/92 13:30	182	6	
8/27/92 8:00	183 BDL		
8/27/92 13:30	183 BDL		
8/27/92 13:30	183 BDL		
8/28/92 8:30	184	6	
8/28/92 13:00	184	6	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
8/28/92 13:00	184	6	
8/29/92 9:00	185 BDL		
8/30/92 9:00	186 BDL		
8/31/92 8:30	187 BDL		
8/31/92 13:00	187	6	
9/1/92 21:25	188 BDL		
9/2/92 9:31	189 BDL		
9/2/92 9:31	189	6	
9/3/92 8:00	190 BDL		
9/3/92 13:40	190 BDL		
9/4/92 8:30	191 BDL		
9/4/92 12:00	191 BDL		
9/5/92 13:00	192 BDL		
9/6/92 9:55	193 BDL		
9/6/92 9:55	193 BDL		
9/7/92 10:00	194 BDL		
9/7/92 12:30	194	6	
9/8/92 8:55	195 BDL		
9/8/92 12:55	195 BDL		
9/9/92 8:55	196 BDL		
9/9/92 12:00	196 BDL		
9/9/92 12:00	196 BDL		
9/10/92 8:00	197 BDL		
9/10/92 12:00	197 BDL		
9/11/92 8:00	198 BDL		
9/11/92 12:00	198 BDL		
9/11/92 12:00	198 BDL		
9/12/92 9:00	199 BDL		
9/13/92 9:00	200 TO		
9/14/92 9:00	201 BDL		
9/14/92 16:05	201	6	
9/15/92 9:00	202 BDL		
9/15/92 13:00	202 BDL		
9/16/92 9:40	203 BDL		
9/16/92 13:45	203 BDL		
9/17/92 8:30	204 BDL		
9/17/92 8:30	204 BDL		
9/17/92 14:00	204 BDL		
9/18/92 9:00	205 BDL		
9/18/92 13:30	205	9	
9/19/92 9:00	206 BDL		
9/20/92 10:30	207 BDL		
9/21/92 10:00	208	14	
9/21/92 13:30	-177 BDL		
9/21/92 14:00	208 BDL		
9/22/92 8:30	209 BDL		
9/22/92 8:30	209 BDL		
9/22/92 13:00	209 BDL		
9/23/92 8:30	210 BDL		
9/23/92 13:00	210	11	
9/24/92 8:15	211 BDL		
9/24/92 13:00	211 BDL		

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
9/27/92 8:30	214	BDL	
9/28/92 8:00	215	BDL	
9/28/92 13:00	215	BDL	
9/29/92 8:30	216	BDL	
9/29/92 8:30	216	BDL	
9/29/92 14:30	216	BDL	
10/1/92 9:30	218	BDL	
10/1/92 14:00	218	BDL	
10/2/92 8:30	219	BDL	
10/2/92 13:00	219	BDL	
10/2/92 13:00	219	BDL	
10/3/92 9:30	220	BDL	
10/4/92 8:28	221	BDL	
10/4/92 8:28	221	BDL	
10/5/92 8:30	222	BDL	
10/5/92 13:30	222	BDL	
10/6/92 9:00	223	BDL	
10/6/92 13:30	223	BDL	
10/7/92 9:00	224	BDL	
10/7/92 13:30	224	BDL	
10/7/92 13:30	224	BDL	
10/8/92 9:30	225	BDL	
10/8/92 14:00	225	BDL	
10/9/92 9:00	226	BDL	
10/9/92 13:30	226	BDL	
10/10/92 10:30	227	BDL	
10/11/92 9:30	228	BDL	
10/15/92 10:00	232	BDL	
10/15/92 13:00	232	BDL	
10/15/92 13:00	232	BDL	
10/16/92 9:00	233	BDL	
10/16/92 13:00	233	BDL	
10/17/92 9:23	234	BDL	
10/18/92 9:30	235	BDL	
10/19/92 9:30	236	BDL	
10/19/92 13:30	236	BDL	
10/19/92 13:30	236	BDL	
10/20/92 9:30	237	BDL	
10/20/92 13:30	237	BDL	
10/21/92 9:30	238	BDL	
10/21/92 13:00	238	BDL	
10/22/92 9:00	239	BDL	
10/22/92 12:00	239	BDL	
10/22/92 12:00	239	BDL	
10/23/92 9:30	240	BDL	
10/23/92 14:00	240	BDL	
10/24/92 10:30	241	BDL	
10/25/92 9:07	242	BDL	
10/26/92 9:00	243	BDL	
10/26/92 15:00	243	BDL	
10/27/92 9:00	244	BDL	
10/27/92 14:30	244	BDL	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
10/28/92 9:07	245	BDL	
10/28/92 13:30	245	BDL	
10/29/92 9:00	246	BDL	
10/29/92 13:00	246	BDL	
10/30/92 10:25	247	BDL	
10/30/92 18:00	247	BDL	
10/31/92 11:00	248	BDL	
10/31/92 11:00	248	BDL	
11/1/92 14:00	249	BDL	
11/2/92 10:00	250	BDL	
11/2/92 15:00	250	BDL	
11/3/92 9:30	251	BDL	
11/3/92 17:30	251	BDL	
11/4/92 9:33	252	BDL	
11/4/92 9:33	252	BDL	
11/4/92 14:00	252	BDL	
11/5/92 9:30	253	BDL	
11/5/92 13:00	253	BDL	
11/6/92 9:30	254	BDL	
11/6/92 9:30	254	BDL	
11/6/92 14:00	254	BDL	
11/7/92 9:30	255	BDL	
11/8/92 10:30	256	BDL	
11/8/92 10:30	256	BDL	
11/9/92 9:30	257	BDL	
11/9/92 13:30	257	BDL	
11/10/92 10:00	258	BDL	
11/10/92 14:00	258	BDL	
11/11/92 19:32	259	BDL	
11/12/92 9:30	260	BDL	
11/12/92 9:30	260	BDL	
11/12/92 13:00	260	BDL	
11/13/92 9:30	261	BDL	
11/13/92 13:00	261	BDL	
11/14/92 15:00	262	BDL	
11/15/92 13:00	263	BDL	
11/16/92 9:30	264	BDL	
11/16/92 13:00	264	BDL	
11/17/92 10:00	265	BDL	
11/17/92 10:00	265	BDL	
11/17/92 14:30	265	BDL	
11/18/92 9:00	266	BDL	
11/18/92 13:00	266	BDL	
11/19/92 9:00	267	BDL	
11/19/92 13:00	267	BDL	
11/20/92 10:00	268	BDL	
11/20/92 14:00	268	BDL	
11/21/92 12:00	269	BDL	
11/21/92 12:00	269	BDL	
11/22/92 12:00	270	BDL	
12/14/92 10:00	292	BDL	
12/14/92 15:00	292	BDL	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
12/15/92 9:30	293	BDL	
12/15/92 13:30	293	BDL	
12/16/92 9:00	294	BDL	
12/16/92 14:00	294	BDL	
12/17/92 9:00	295	BDL	
12/17/92 13:00	295	BDL	
12/18/92 9:30	296	BDL	
12/18/92 13:00	296	BDL	
12/19/92 17:30	297	BDL	
12/19/92 17:30	297	BDL	
12/20/92 10:30	298	BDL	
12/21/92 10:00	299	BDL	
12/21/92 14:30	299	BDL	
12/22/92 10:00	300	BDL	
12/22/92 13:30	300	BDL	
12/23/92 9:00	301	BDL	
12/23/92 14:00	301	BDL	
12/24/92 10:30	302	BDL	
12/24/92 12:30	302	BDL	
12/26/92 13:00	304	BDL	
12/26/92 13:00	304	BDL	
12/27/92 12:30	305	BDL	
12/28/92 16:30	306	BDL	
12/29/92 11:00	307	BDL	
12/29/92 14:00	307	BDL	
12/30/92 10:00	308	BDL	
12/30/92 14:30	308	BDL	
12/31/92 11:00	309	BDL	
12/31/92 12:00	309	BDL	
1/2/93 12:00	311	BDL	
1/2/93 12:00	311	BDL	
1/3/93 15:00	312	BDL	
1/4/93 10:30	313	BDL	
1/4/93 14:30	313	BDL	
1/5/93 9:30	314	BDL	
1/5/93 14:00	314	BDL	
1/6/93 9:30	315	BDL	
1/6/93 9:30	315	BDL	
1/6/93 14:30	315	BDL	
1/7/93 10:00	316	BDL	
1/7/93 13:30	316	BDL	
1/8/93 9:30	317	BDL	
1/8/93 13:30	317	BDL	
1/9/93 12:00	318	BDL	
1/10/93 14:30	319	BDL	
1/11/93 11:00	320	BDL	
1/11/93 14:30	320	BDL	
1/12/93 11:30	321	BDL	
1/12/93 11:30	321	BDL	
1/12/93 14:30	321	BDL	
1/13/93 8:30	322	BDL	
1/14/93 10:30	323	BDL	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
1/15/93 10:30	324	BDL	
1/26/93 16:00	335	BDL	
1/26/93 16:00	335	BDL	
1/27/93 10:30	336	BDL	
1/28/93 9:30	337	BDL	
1/29/93 8:30	338	BDL	
1/29/93 8:30	338	BDL	
1/31/93 11:00	340	BDL	
2/1/93 10:30	341	BDL	
2/1/93 13:30	341	BDL	
2/1/93 13:30	341	BDL	
2/2/93 9:15	342	BDL	
2/2/93 14:00	342	BDL	
2/3/93 9:30	343	BDL	
2/3/93 15:00	343	BDL	
2/4/93 10:00	344	BDL	
2/4/93 10:00	344	BDL	
2/4/93 15:00	344	BDL	
2/5/93 10:00	345	BDL	
2/5/93 15:30	345	BDL	
2/7/93 15:00	347	BDL	
2/8/93 10:30	348	BDL	
2/8/93 10:30	348	BDL	
2/8/93 15:00	348	BDL	
2/9/93 10:30	349	BDL	
2/10/93 13:00	350	BDL	
2/11/93 9:00	351	BDL	
2/11/93 9:00	351	BDL	
2/11/93 14:00	351	BDL	
2/12/93 10:00	352	BDL	
2/12/93 16:00	352	BDL	
2/13/93 11:30	353	BDL	
2/14/93 19:00	354	BDL	
2/15/93 9:00	355	BDL	
2/15/93 9:00	355	BDL	
2/15/93 14:30	355	BDL	
2/16/93 9:00	356	BDL	
2/16/93 14:30	356	BDL	
2/17/93 9:00	357	BDL	
2/17/93 15:00	357	BDL	
2/18/93 10:00	358	BDL	
2/18/93 14:00	358	BDL	
2/19/93 9:30	359	BDL	
2/19/93 14:00	359	BDL	
2/24/93 11:00	364	BDL	
2/24/93 15:50	364	BDL	
2/25/93 9:30	365	BDL	
2/25/93 13:55	365	BDL	
2/25/93 13:55	365	BDL	
2/26/93 9:30	366	BDL	
2/26/93 13:30	366	BDL	
2/27/93 13:00	367	BDL	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
2/28/93 10:00	368	BDL	
2/28/93 10:00	368	BDL	
2/28/93 15:45	368	BDL	
3/1/93 10:00	369	BDL	
3/1/93 15:00	369	BDL	
3/2/93 8:30	370	BDL	
3/2/93 15:00	370	BDL	
3/3/93 10:00	371	BDL	
3/3/93 14:00	371	BDL	
3/4/93 10:00	372	BDL	
3/4/93 13:30	372	BDL	
3/5/93 9:30	373	BDL	
3/5/93 14:30	373	BDL	
3/5/93 14:30	373	BDL	
3/6/93 10:00	374	BDL	
3/6/93 10:00	374	BDL	
3/6/93 16:30	374	BDL	
3/7/93 13:00	375	BDL	
3/8/93 10:30	376	BDL	
3/8/93 16:00	376	BDL	
3/9/93 10:00	377	BDL	
3/9/93 14:00	377	BDL	
3/9/93 14:00	377	BDL	
3/10/93 9:30	378	BDL	
3/10/93 13:00	378	BDL	
3/11/93 8:00	379	BDL	
3/11/93 12:00	379	BDL	
3/12/93 10:00	380	BDL	
3/12/93 10:00	380	BDL	
3/12/93 14:00	380	BDL	
3/13/93 13:00	381	BDL	
3/14/93 15:00	382	BDL	
3/15/93 14:00	383	BDL	
3/16/93 9:30	384	BDL	
3/16/93 15:30	384	BDL	
3/17/93 9:00	385	BDL	
3/17/93 13:00	385	BDL	
3/18/93 9:00	386	BDL	
3/18/93 13:00	386	BDL	
3/19/93 10:30	387	BDL	
3/19/93 14:00	387	BDL	
3/20/93 9:30	388	BDL	
3/20/93 13:00	388	BDL	
3/21/93 9:30	389	BDL	
3/22/93 9:30	390	BDL	
3/22/93 15:00	390	BDL	
3/23/93 11:00	391	BDL	
3/23/93 11:00	391	BDL	
3/23/93 15:00	391	BDL	
3/24/93 7:00	392	BDL	
3/24/93 16:00	392	BDL	
3/25/93 9:30	393	BDL	

DATES	DAYS	DCE-c (PPM)	DCECINFL.XLS
3/25/93 9:30	393	BDL	
3/25/93 13:30	393	BDL	
3/26/93 9:00	394	BDL	
3/26/93 13:00	394	BDL	
3/27/93 11:00	395	BDL	
3/28/93 9:00	396	BDL	
3/28/93 9:00	396	BDL	
3/28/93 13:00	396	BDL	
3/29/93 10:00	397	BDL	
3/29/93 18:33	397	BDL	
3/30/93 9:00	398	BDL	
3/30/93 17:00	398	BDL	
3/31/93 10:30	399	BDL	
3/31/93 13:00	399	BDL	
4/1/93 10:00	400	BDL	
4/1/93 13:00	400	BDL	
4/2/93 10:30	401	BDL	
4/2/93 14:00	401	BDL	
4/2/93 14:00	401	BDL	
4/3/93 13:00	402	BDL	
4/4/93 14:00	403	BDL	
4/5/93 11:00	404	BDL	
4/5/93 16:00	404	BDL	
4/6/93 11:30	405	BDL	
4/6/93 13:30	405	BDL	
4/7/93 10:00	406	BDL	
4/7/93 13:00	406	BDL	
4/8/93 10:00	407	BDL	
4/8/93 17:30	407	BDL	
4/8/93 17:30	407	BDL	
4/9/93 13:15	408	BDL	
4/9/93 16:00	408	BDL	
4/10/93 12:00	409	BDL	
4/11/93 10:30	410	BDL	
4/11/93 20:00	410	BDL	
4/12/93 10:08	411	BDL	
4/12/93 10:08	411	BDL	
4/12/93 12:15	411	BDL	
4/13/93 11:00	412	BDL	
4/13/93 15:30	412	BDL	
4/14/93 11:00	413	BDL	
4/14/93 14:00	413	BDL	
4/15/93 10:00	414	BDL	
4/15/93 17:00	414	BDL	
4/16/93 10:30	415	BDL	
4/16/93 16:30	415	BDL	
4/17/93 11:00	416	BDL	
4/17/93 13:00	416	BDL	
4/18/93 12:00	417	BDL	
4/18/93 12:00	417	BDL	
4/19/93 7:30	418	BDL	
4/19/93 14:30	418	BDL	

DATES

DAYS

DCE-c (PPM)

DCECINFL.XLS

4/20/93 10:30	419 BDL
4/20/93 13:00	419 BDL
4/21/93 11:00	420 BDL
4/21/93 15:00	420 BDL
4/21/93 15:00	420 BDL
4/22/93 11:30	421 BDL
4/24/93 12:00	423 BDL
4/25/93 18:45	424 BDL
4/25/93 7:38	#VALUE! BDL
4/25/93 18:45	424
4/25/93 18:45	424 BDL
4/26/93 9:08	425 BDL
4/26/93 13:18	425 BDL
4/27/93 7:45	426 BDL
4/27/93 7:45	426 BDL
4/27/93 19:15	426 BDL
4/28/93 9:13	427 BDL
4/28/93 12:10	427 BDL
4/29/93 8:15	428 BDL
4/29/93 16:08	428 BDL
4/29/93 16:08	428 BDL
4/30/93 9:12	429 BDL

0

DATES

DAYS

tce (ppm)

TCEINFLU.XLS

WSRC DATA & CHART

FILE NAME:

TCEINFLU.XLS

TCE INFLUENT CONCENTRATIONS

DATES	DAYS	TCE (PPM)
2/26/92 10:42	0	85
2/26/92 10:59	0	77
2/26/92 11:20	0	106
2/26/92 12:20	0	86
2/26/92 13:38	0	100
2/26/92 15:20	0	67
2/26/92 19:30	0	120
2/26/92 23:25	1	127
2/27/92 3:20	1	130
2/27/92 7:20	1	135
2/27/92 11:27	1	104
2/27/92 15:22	1	107
2/28/92 6:23	2	145
2/28/92 18:20	2	241
2/29/92 7:05	3	217
2/29/92 19:10	3	394
3/1/92 3:12	4	139
3/1/92 15:05	4	248
3/2/92 7:45	5	330
3/2/92 19:00	5	302
3/5/92 23:45	9	238
3/6/92 0:45	9	229
3/6/92 2:45	9	164
3/6/92 6:45	9	195
3/6/92 10:45	9	257
3/6/92 14:45	9	260
3/6/92 14:46	9	256
3/7/92 7:45	10	207
3/7/92 16:45	10	181
3/8/92 7:45	11	0
3/8/92 16:45	11	133
3/9/92 7:45	12	168
3/9/92 16:45	12	158
3/9/92 16:45	12	149
3/10/92 7:45	13	192
3/10/92 16:45	13	153
3/11/92 7:50	14	160
3/11/92 16:45	14	122
3/12/92 7:50	15	147
3/12/92 7:50	15	152
3/12/92 15:45	15	168
3/13/92 7:45	16	165
3/13/92 16:45	16	0
3/14/92 7:45	17	179
3/14/92 15:45	17	0

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
3/15/92 7:30	18	120	
3/15/92 16:15	18	128	
3/16/92 7:35	19	146	
3/16/92 15:50	19	0	
3/17/92 7:50	20	0	
3/17/92 16:30	20	101	
3/18/92 7:55	21	98	
3/18/92 17:00	21	0	
3/19/92 7:50	22	0	
3/19/92 14:30	22	0	
3/20/92 8:00	23	0	
3/20/92 17:00	23	144	
3/21/92 7:45	24	87	
3/21/92 16:00	24	121	
3/22/92 7:45	25	115	
3/22/92 15:45	25	103	
3/23/92 7:45	26	112	
3/23/92 15:00	26	126	
3/24/92 8:00	27	102	
3/24/92 8:00	27	101	
3/24/92 16:45	27	112	
3/25/92 8:00	28	108	
3/25/92 16:30	28	85	
3/26/92 7:00	29	124	
3/26/92 16:00	29	71	
3/27/92 8:00	30	115	
3/27/92 17:00	30	139	
3/28/92 6:55	31	92	
3/28/92 14:00	31	105	
3/29/92 6:50	32	106	
3/29/92 14:55	32	108	
4/2/92 15:00	36	132	
4/2/92 15:01	36	128	
4/2/92 17:00	36	150	
4/2/92 19:00	36	67	
4/3/92 8:00	37	97	
4/3/92 16:05	37	83	
4/4/92 6:45	38	71	
4/5/92 8:00	39	78	
4/5/92 15:00	39	73	
4/5/92 15:00	39	76	
4/6/92 9:00	40	373	
4/6/92 16:00	40	87	
4/7/92 9:00	41	104	
4/7/92 16:00	41	110	
4/8/92 8:55	42	100	
4/8/92 16:00	42	96	
4/9/92 7:00	43	89	
4/9/92 7:00	43	86	
4/9/92 16:00	43	76	
4/10/92 7:00	44	79	
4/10/92 15:00	44	81	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
4/10/92 15:00	44	83	
4/11/92 7:00	45	87	
4/11/92 13:00	45	96	
4/12/92 7:00	46	89	
4/12/92 13:55	46	100	
4/13/92 8:00	47	114	
4/13/92 16:00	47	122	
4/14/92 8:00	48	108	
4/14/92 8:00	48	115	
4/14/92 16:00	48	118	
4/15/92 8:00	49	110	
4/15/92 15:00	49	96	
4/16/92 7:00	50	92	
4/16/92 15:55	50	77	
4/17/92 8:00	51	93	
4/17/92 14:00	51	80	
4/18/92 7:00	52	71	
4/18/92 13:00	52	77	
4/19/92 7:00	53	70	
4/19/92 7:00	53	66	
4/19/92 14:05	53	69	
4/20/92 7:00	54	0	
4/20/92 9:00	54	73	
4/20/92 16:00	54	110	
4/21/92 9:00	55	110	
4/21/92 16:00	55	108	
4/22/92 8:00	56	107	
4/22/92 8:00	56	107	
4/22/92 16:00	56	110	
4/23/92 9:00	57	108	
4/23/92 16:00	57	92	
4/24/92 9:00	58	111	
4/24/92 9:00	58	109	
4/24/92 14:00	58	109	
4/26/92 8:00	60	98	
4/26/92 14:00	60	91	
4/27/92 8:00	61	124	
4/27/92 15:00	61	115	
4/28/92 8:00	62	119	
4/28/92 15:00	62	108	
4/29/92 8:00	63	113	
4/29/92 15:00	63	113	
4/30/92 8:00	64	147	
4/30/92 16:00	64	72	
5/1/92 8:00	65	82	
5/1/92 15:00	65	105	
5/2/92 8:00	66	97	
5/3/92 8:00	67	86	
5/3/92 8:00	67	90	
5/4/92 8:00	68	119	
5/4/92 15:00	68	120	
5/5/92 8:00	69	114	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
5/5/92 15:00	69	110	
5/6/92 8:00	70	123	
5/6/92 8:00	70	119	
5/6/92 16:00	70	117	
5/7/92 7:00	71	85	
5/7/92 15:00	71	82	
5/8/92 7:00	72	108	
5/8/92 7:00	72	97	
5/8/92 13:00	72	89	
5/9/92 8:00	73	92	
5/10/92 8:00	74	95	
5/11/92 8:00	75	112	
5/11/92 14:00	75	102	
5/11/92 14:00	75	107	
5/12/92 8:00	76	113	
5/12/92 14:00	76	104	
5/13/92 8:00	77	104	
5/13/92 14:00	77	113	
5/14/92 7:00	78	92	
5/14/92 15:00	78	97	
5/15/92 7:00	79	82	
5/15/92 14:00	79	87	
5/16/92 10:00	80	88	
5/16/92 10:00	80	93	
5/17/92 8:00	81	94	
5/18/92 17:05	82	99	
5/19/92 8:00	83	100	
5/19/92 15:00	83	96	
5/20/92 8:00	84	105	
5/20/92 15:00	84	109	
5/21/92 8:00	85	107	
5/21/92 14:30	85	82	
5/22/92 7:00	86	83	
5/22/92 7:00	86	84	
5/22/92 13:05	86	78	
5/23/92 8:00	87	70	
5/24/92 8:00	88	61	
5/25/92 8:00	89	71	
5/25/92 8:00	89	74	
5/25/92 17:00	89	77	
5/26/92 8:00	90	84	
5/26/92 14:00	90	92	
5/27/92 8:00	91	85	
5/27/92 13:00	91	79	
5/28/92 8:00	92	88	
5/28/92 16:00	92	73	
5/29/92 6:05	93	86	
5/30/92 8:00	94	88	
5/31/92 10:00	95	91	
6/1/92 8:00	96	94	
6/1/92 14:00	96	100	
6/2/92 8:00	97	94	

DATES

DAYS

tce (ppm)

TCEINFLU.XLS

6/2/92 14:00	97	91
6/3/92 8:00	98	88
6/3/92 14:00	98	94
6/4/92 8:00	99	97
6/4/92 14:00	99	97
6/5/92 8:00	100	79
6/6/92 16:00	101	79
6/6/92 16:00	101	78
6/7/92 11:00	102	78
6/8/92 8:00	103	62
6/10/92 8:00	105	73
6/10/92 14:00	105	78
6/11/92 8:00	106	76
6/11/92 14:00	106	59
6/11/92 14:00	106	55
6/12/92 8:00	107	105
6/12/92 12:00	107	86
6/13/92 12:00	108	98
6/13/92 12:00	108	102
6/14/92 13:00	109	98
6/15/92 9:30	110	98
6/15/92 15:00	110	92
6/16/92 8:00	111	117
6/16/92 14:00	111	105
6/17/92 8:00	112	
6/17/92 8:00	112	103
6/17/92 8:00	112	100
6/17/92 8:05	112	
6/17/92 13:00	112	
6/17/92 13:00	112	101
6/18/92 8:00	113	91
6/18/92 8:05	113	
6/18/92 8:05	113	
6/18/92 16:25	113	145
6/19/92 9:08	114	108
6/19/92 9:08	114	109
6/19/92 9:21	114	
6/19/92 9:21	114	
6/19/92 12:15	114	106
6/23/92 8:30	118	95
6/23/92 13:30	118	107
6/24/92 8:00	119	101
6/24/92 8:00	119	102
6/24/92 12:00	119	97
6/25/92 8:00	120	78
6/25/92 12:30	120	102
6/26/92 8:30	121	96
6/26/92 13:00	121	92
6/27/92 11:30	122	95
6/27/92 11:30	122	95
6/28/92 11:30	123	97
6/29/92 7:30	124	93

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
6/29/92 13:00	124	97	
6/30/92 9:00	125	89	
6/30/92 14:00	125	92	
7/1/92 9:30	126	95	
7/1/92 9:30	126	93	
7/1/92 14:00	126	86	
7/2/92 8:00	127	94	
7/2/92 13:30	127	94	
7/3/92 8:00	128	92	
7/3/92 8:00	128	93	
7/3/92 12:00	128	91	
7/4/92 11:00	129	84	
7/5/92 11:00	130	89	
7/6/92 9:00	131	86	
7/6/92 15:00	131	85	
7/6/92 15:00	131	87	
7/7/92 9:30	132	82	
7/8/92 8:00	133	80	
7/8/92 15:00	133	87	
7/9/92 9:00	134	84	
7/9/92 14:00	134	78	
7/10/92 10:00	135	81	
7/10/92 13:00	135	90	
7/11/92 9:30	136	78	
7/12/92 10:15	137	92	
7/13/92 8:40	138	0	
7/13/92 8:40	138	87	
7/13/92 13:35	138	88	
7/14/92 8:40	139	84	
7/14/92 13:25	139	82	
7/15/92 8:11	140	80	
7/15/92 13:31	140	83	
7/16/92 8:10	141	82	
7/16/92 13:58	141	87	
7/17/92 9:45	142	92	
7/17/92 9:45	142	89	
7/17/92 13:29	142	79	
7/18/92 8:05	143	83	
7/19/91 8:02	-222	78	
7/20/92 7:45	145	86	
7/20/92 13:00	145	85	
7/21/92 9:10	146	75	
7/21/92 13:30	146	76	
7/22/92 8:39	147	69	
7/22/92 13:35	147	84	
7/23/92 8:02	148	81	
7/23/92 13:30	148	74	
7/24/92 7:50	149	71	
7/24/92 7:50	149	74	
7/24/92 13:00	149	78	
7/25/92 8:10	150	78	
7/26/92 9:30	151	70	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
7/27/92 8:00	152	61	
7/27/92 8:00	152	56	
7/27/92 13:00	152	80	
7/28/92 10:00	153	71	
7/28/92 12:00	153	77	
7/29/92 9:00	154	59	
7/29/92 13:00	154	68	
7/30/92 7:00	155	62	
7/30/92 12:00	155	63	
7/31/92 9:00	156	40	
7/31/92 12:00	156	48	
8/6/92 8:00	162	69	
8/6/92 12:00	162	77	
8/7/92 8:20	163	77	
8/7/92 13:22	163	75	
8/8/92 9:30	164	82	
8/9/92 8:00	165	78	
8/10/92 7:35	166	78	
8/10/92 13:20	166	90	
8/11/92 8:00	167	78	
8/11/92 8:00	167	81	
8/11/92 13:00	167	88	
8/12/92 7:50	168	78	
8/12/92 12:26	168	85	
8/13/92 8:20	169	73	
8/13/92 15:00	169	65	
8/14/92 8:15	170	75	
8/14/92 13:00	170	85	
8/15/92 8:20	171	83	
8/16/92 8:15	172	83	
8/17/92 9:00	173	67	
8/17/92 9:00	173	66	
8/17/92 14:30	173	83	
8/18/92 8:25	174	75	
8/18/92 14:00	174	89	
8/19/92 8:10	175	79	
8/20/92 17:00	176	80	
8/21/92 8:00	177	74	
8/21/92 13:30	177	78	
8/22/92 9:30	178	83	
8/23/92 10:00	179	83	
8/24/92 8:16	180	77	
8/24/92 13:30	180	90	
8/25/92 8:50	181	83	
8/25/92 14:00	181	90	
8/26/92 8:30	182	81	
8/26/92 13:30	182	91	
8/27/92 8:00	183	75	
8/27/92 13:30	183	84	
8/27/92 13:30	183	84	
8/28/92 8:30	184	81	
8/28/92 13:00	184	87	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
8/28/92 13:00	184	88	
8/29/92 9:00	185	81	
8/30/92 9:00	186	85	
8/31/92 8:30	187	78	
8/31/92 13:00	187	86	
9/1/92 21:25	188	80	
9/2/92 9:31	189	89	
9/2/92 9:31	189	89	
9/3/92 8:00	190	78	
9/3/92 13:40	190	96	
9/4/92 8:30	191	79	
9/4/92 12:00	191	90	
9/5/92 13:00	192	81	
9/6/92 9:55	193	81	
9/6/92 9:55	193	84	
9/7/92 10:00	194	88	
9/7/92 12:30	194	86	
9/8/92 8:55	195	88	
9/8/92 12:55	195	93	
9/9/92 8:55	196	75	
9/9/92 12:00	196	83	
9/9/92 12:00	196	82	
9/10/92 8:00	197	76	
9/10/92 12:00	197	74	
9/11/92 8:00	198	72	
9/11/92 12:00	198	89	
9/11/92 12:00	198	87	
9/12/92 9:00	199	83	
9/13/92 9:00	200	BAD	
9/14/92 9:00	201	71	
9/14/92 16:05	201	82	
9/15/92 9:00	202	75	
9/15/92 13:00	202	89	
9/16/92 9:40	203	83	
9/16/92 13:45	203	89	
9/17/92 8:30	204	82	
9/17/92 8:30	204	83	
9/17/92 14:00	204	87	
9/18/92 9:00	205	74	
9/18/92 13:30	205	90	
9/19/92 9:00	206	78	
9/20/92 10:30	207	82	
9/21/92 10:00	208	76	
9/21/92 13:30	-177	88	
9/21/92 14:00	208	83	
9/22/92 8:30	209	76	
9/22/92 8:30	209	74	
9/22/92 13:00	209	77	
9/23/92 8:30	210	84	
9/23/92 13:00	210	93	
9/24/92 8:15	211	88	
9/24/92 13:00	211	80	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
9/27/92 8:30	214	83	
9/28/92 8:00	215	84	
9/28/92 13:00	215	87	
9/29/92 8:30	216	81	
9/29/92 8:30	216	81	
9/29/92 14:30	216	89	
10/1/92 9:30	218	84	
10/1/92 14:00	218	83	
10/2/92 8:30	219	84	
10/2/92 13:00	219	87	
10/2/92 13:00	219	90	
10/3/92 9:30	220	82	
10/4/92 8:28	221	80	
10/4/92 8:28	221	82	
10/5/92 8:30	222	71	
10/5/92 13:30	222	81	
10/6/92 9:00	223	72	
10/6/92 13:30	223	78	
10/7/92 9:00	224	72	
10/7/92 13:30	224	82	
10/7/92 13:30	224	80	
10/8/92 9:30	225	69	
10/8/92 14:00	225	73	
10/9/92 9:00	226	74	
10/9/92 13:30	226	80	
10/10/92 10:30	227	72	
10/11/92 9:30	228	72	
10/15/92 10:00	232	75	
10/15/92 13:00	232	77	
10/15/92 13:00	232	78	
10/16/92 9:00	233	71	
10/16/92 13:00	233	71	
10/17/92 9:23	234	73	
10/18/92 9:30	235	70	
10/19/92 9:30	236	73	
10/19/92 13:30	236	83	
10/19/92 13:30	236	78	
10/20/92 9:30	237	73	
10/20/92 13:30	237	74	
10/21/92 9:30	238	68	
10/21/92 13:00	238	81	
10/22/92 9:00	239	59	
10/22/92 12:00	239	66	
10/22/92 12:00	239	66	
10/23/92 9:30	240	61	
10/23/92 14:00	240	45	
10/24/92 10:30	241	63	
10/25/92 9:07	242	64	
10/26/92 9:00	243	63	
10/26/92 15:00	243	69	
10/27/92 9:00	244	58	
10/27/92 14:30	244	74	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
10/28/92 9:07	245	66	
10/28/92 13:30	245	71	
10/29/92 9:00	246	58	
10/29/92 13:00	246	70	
10/30/92 10:25	247	62	
10/30/92 18:00	247	62	
10/31/92 11:00	248	54	
10/31/92 11:00	248	53	
11/1/92 14:00	249	68	
11/2/92 10:00	250	62	
11/2/92 15:00	250	58	
11/3/92 9:30	251	57	
11/3/92 17:30	251	60	
11/4/92 9:33	252	64	
11/4/92 9:33	252	64	
11/4/92 14:00	252	64	
11/5/92 9:30	253	59	
11/5/92 13:00	253	61	
11/6/92 9:30	254	67	
11/6/92 9:30	254	68	
11/6/92 14:00	254	72	
11/7/92 9:30	255	61	
11/8/92 10:30	256	68	
11/8/92 10:30	256	70	
11/9/92 9:30	257	65	
11/9/92 13:30	257	67	
11/10/92 10:00	258	61	
11/10/92 14:00	258	68	
11/11/92 19:32	259	68	
11/12/92 9:30	260	72	
11/12/92 9:30	260	71	
11/12/92 13:00	260	65	
11/13/92 9:30	261	65	
11/13/92 13:00	261	69	
11/14/92 15:00	262	66	
11/15/92 13:00	263	76	
11/16/92 9:30	264	59	
11/16/92 13:00	264	65	
11/17/92 10:00	265	59	
11/17/92 10:00	265	59	
11/17/92 14:30	265	60	
11/18/92 9:00	266	59	
11/18/92 13:00	266	68	
11/19/92 9:00	267	51	
11/19/92 13:00	267	69	
11/20/92 10:00	268	58	
11/20/92 14:00	268	54	
11/21/92 12:00	269	51	
11/21/92 12:00	269	50	
11/22/92 12:00	270	57	
12/14/92 10:00	292	65	
12/14/92 15:00	292	64	

DATES	DAYS	Ice (ppm)	TCEINFLU.XLS
12/15/92 9:30	293	63	
12/15/92 13:30	293	66	
12/16/92 9:00	294	67	
12/16/92 14:00	294	71	
12/17/92 9:00	295	63	
12/17/92 13:00	295	71	
12/18/92 9:30	296	61	
12/18/92 13:00	296	70	
12/19/92 17:30	297	61	
12/19/92 17:30	297	61	
12/20/92 10:30	298	71	
12/21/92 10:00	299	67	
12/21/92 14:30	299	61	
12/22/92 10:00	300	58	
12/22/92 13:30	300	56	
12/23/92 9:00	301	59	
12/23/92 14:00	301	66	
12/24/92 10:30	302	61	
12/24/92 12:30	302	67	
12/26/92 13:00	304	64	
12/26/92 13:00	304	64	
12/27/92 12:30	305	66	
12/28/92 16:30	306	74	
12/29/92 11:00	307	75	
12/29/92 14:00	307	74	
12/30/92 10:00	308	76	
12/30/92 14:30	308	77	
12/31/92 11:00	309	79	
12/31/92 12:00	309	81	
1/2/93 12:00	311	77	
1/2/93 12:00	311	75	
1/3/93 15:00	312	77	
1/4/93 10:30	313	76	
1/4/93 14:30	313	76	
1/5/93 9:30	314	75	
1/5/93 14:00	314	76	
1/6/93 9:30	315	72	
1/6/93 9:30	315	74	
1/6/93 14:30	315	80	
1/7/93 10:00	316	73	
1/7/93 13:30	316	64	
1/8/93 9:30	317	73	
1/8/93 13:30	317	77	
1/9/93 12:00	318	71	
1/10/93 14:30	319	82	
1/11/93 11:00	320	75	
1/11/93 14:30	320	77	
1/12/93 11:30	321	52	
1/12/93 11:30	321	52	
1/12/93 14:30	321	58	
1/13/93 8:30	322	75	
1/14/93 10:30	323	76	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
1/15/93 10:30	324	73	
1/26/93 16:00	335	71	
1/26/93 16:00	335	73	
1/27/93 10:30	336	73	
1/28/93 9:30	337	75	
1/29/93 8:30	338	76	
1/29/93 8:30	338	77	
1/31/93 11:00	340	71	
2/1/93 10:30	341	71	
2/1/93 13:30	341	76	
2/1/93 13:30	341	74	
2/2/93 9:15	342	70	
2/2/93 14:00	342	76	
2/3/93 9:30	343	72	
2/3/93 15:00	343	84	
2/4/93 10:00	344	76	
2/4/93 10:00	344	77	
2/4/93 15:00	344	81	
2/5/93 10:00	345	71	
2/5/93 15:30	345	68	
2/7/93 15:00	347	68	
2/8/93 10:30	348	72	
2/8/93 10:30	348	74	
2/8/93 15:00	348	74	
2/9/93 10:30	349	75	
2/10/93 13:00	350	74	
2/11/93 9:00	351 *47		
2/11/93 9:00	351 *45		
2/11/93 14:00	351 *35		
2/12/93 10:00	352	72	
2/12/93 16:00	352	72	
2/13/93 11:30	353	71	
2/14/93 19:00	354	76	
2/15/93 9:00	355	76	
2/15/93 9:00	355	75	
2/15/93 14:30	355	77	
2/16/93 9:00	356	73	
2/16/93 14:30	356	76	
2/17/93 9:00	357	74	
2/17/93 15:00	357	79	
2/18/93 10:00	358	78	
2/18/93 14:00	358	83	
2/19/93 9:30	359	75	
2/19/93 14:00	359	81	
2/24/93 11:00	364	79	
2/24/93 15:50	364	77	
2/25/93 9:30	365	78	
2/25/93 13:55	365	79	
2/25/93 13:55	365	79	
2/26/93 9:30	366	76	
2/26/93 13:30	366	75	
2/27/93 13:00	367	74	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
2/28/93 10:00	368	75	
2/28/93 10:00	368	76	
2/28/93 15:45	368	74	
3/1/93 10:00	369	74	
3/1/93 15:00	369	72	
3/2/93 8:30	370	72	
3/2/93 15:00	370	72	
3/3/93 10:00	371	73	
3/3/93 14:00	371	74	
3/4/93 10:00	372	71	
3/4/93 13:30	372	76	
3/5/93 9:30	373	71	
3/5/93 14:30	373	79	
3/5/93 14:30	373	77	
3/6/93 10:00	374	70	
3/6/93 10:00	374	71	
3/6/93 16:30	374	72	
3/7/93 13:00	375	78	
3/8/93 10:30	376	76	
3/8/93 16:00	376	79	
3/9/93 10:00	377	76	
3/9/93 14:00	377	78	
3/9/93 14:00	377	79	
3/10/93 9:30	378	69	
3/10/93 13:00	378	70	
3/11/93 8:00	379	72	
3/11/93 12:00	379	68	
3/12/93 10:00	380	75	
3/12/93 10:00	380	73	
3/12/93 14:00	380	73	
3/13/93 13:00	381	69	
3/14/93 15:00	382	70	
3/15/93 14:00	383	72	
3/16/93 9:30	384	74	
3/16/93 15:30	384	74	
3/17/93 9:00	385	68	
3/17/93 13:00	385	66	
3/18/93 9:00	386	74	
3/18/93 13:00	386	71	
3/19/93 10:30	387	71	
3/19/93 14:00	387	67	
3/20/93 9:30	388	64	
3/20/93 13:00	388	63	
3/21/93 9:30	389	58	
3/22/93 9:30	390	58	
3/22/93 15:00	390	61	
3/23/93 11:00	391	62	
3/23/93 11:00	391	61	
3/23/93 15:00	391	64	
3/24/93 7:00	392	60	
3/24/93 16:00	392	59	
3/25/93 9:30	393	68	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
3/25/93 9:30	393	67	
3/25/93 13:30	393	66	
3/26/93 9:00	394	51	
3/26/93 13:00	394	55	
3/27/93 11:00	395	62	
3/28/93 9:00	396	62	
3/28/93 9:00	396	61	
3/28/93 13:00	396	65	
3/29/93 10:00	397	61	
3/29/93 18:33	397	60	
3/30/93 9:00	398	76	
3/30/93 17:00	398	70	
3/31/93 10:30	399	66	
3/31/93 13:00	399	67	
4/1/93 10:00	400	70	
4/1/93 13:00	400	72	
4/2/93 10:30	401	70	
4/2/93 14:00	401	72	
4/2/93 14:00	401	71	
4/3/93 13:00	402	75	
4/4/93 14:00	403	76	
4/5/93 11:00	404	66	
4/5/93 16:00	404	66	
4/6/93 11:30	405	66	
4/6/93 13:30	405	74	
4/7/93 10:00	406	74	
4/7/93 13:00	406	67	
4/8/93 10:00	407	73	
4/8/93 17:30	407	68	
4/8/93 17:30	407	69	
4/9/93 13:15	408	63	
4/9/93 16:00	408	69	
4/10/93 12:00	409	71	
4/11/93 10:30	410	68	
4/11/93 20:00	410	68	
4/12/93 10:08	411	66	
4/12/93 10:08	411	67	
4/12/93 12:15	411	70	
4/13/93 11:00	412	69	
4/13/93 15:30	412	66	
4/14/93 11:00	413	69	
4/14/93 14:00	413	69	
4/15/93 10:00	414	69	
4/15/93 17:00	414	67	
4/16/93 10:30	415	71	
4/16/93 16:30	415	74	
4/17/93 11:00	416	66	
4/17/93 13:00	416	70	
4/18/93 12:00	417	69	
4/18/93 12:00	417	67	
4/19/93 7:30	418	60	
4/19/93 14:30	418	67	

DATES	DAYS	tce (ppm)	TCEINFLU.XLS
4/20/93 10:30	419	69	
4/20/93 13:00	419	72	
4/21/93 11:00	420	66	
4/21/93 15:00	420	67	
4/21/93 15:00	420	68	
4/22/93 11:30	421	73	
4/24/93 12:00	423	43	
4/25/93 18:45	424	67	
4/25/93 7:38	#VALUE!	49	
4/25/93 18:45	424	0	
4/25/93 18:45	424	67	
4/26/93 9:08	425	49	
4/26/93 13:18	425	48	
4/27/93 7:45	426	67	
4/27/93 7:45	426	66	
4/27/93 19:15	426	73	
4/28/93 9:13	427	62	
4/28/93 12:10	427	73	
4/29/93 8:15	428	74	
4/29/93 16:08	428	59	
4/29/93 16:08	428	60	
4/30/93 9:12	429	52	
4/30/93 17:26	429	52	

DATES

DAYS

PCE (PPM)

PCEINFLU.XLS

WSRC DATA & CHART

FILE NAME:

PCEINFLU.XLS

PCE INCLUENT CONCENTRATIONS

DATES	DAYS	PCE (PPM)
2/26/92 10:42	0	219
2/26/92 10:59	0	208
2/26/92 11:20	0	293
2/26/92 12:20	0	245
2/26/92 13:38	0	287
2/26/92 15:20	0	185
2/26/92 19:30	0	213
2/26/92 23:25	1	215
2/27/92 3:20	1	208
2/27/92 7:20	1	208
2/27/92 11:27	1	144
2/27/92 15:22	1	150
2/28/92 6:23	2	147
2/28/92 18:20	2	200
2/29/92 7:05	3	112
2/29/92 19:10	3	238
3/1/92 3:12	4	77
3/1/92 15:05	4	149
3/2/92 7:45	5	223
3/2/92 19:00	5	213
3/5/92 23:45	9	184
3/6/92 0:45	9	186
3/6/92 2:45	9	125
3/6/92 6:45	9	131
3/6/92 10:45	9	195
3/6/92 14:45	9	222
3/6/92 14:46	9	219
3/7/92 7:45	10	198
3/7/92 16:45	10	210
3/8/92 7:45	11	0
3/8/92 16:45	11	167
3/9/92 7:45	12	193
3/9/92 16:45	12	203
3/9/92 16:45	12	187
3/10/92 7:45	13	265
3/10/92 16:45	13	209
3/11/92 7:50	14	193
3/11/92 16:45	14	152
3/12/92 7:50	15	186
3/12/92 7:50	15	196
3/12/92 15:45	15	219
3/13/92 7:45	16	227
3/13/92 16:45	16	0
3/14/92 7:45	17	253
3/14/92 15:45	17	0

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
3/15/92 7:30	18	172	
3/15/92 16:15	18	168	
3/16/92 7:35	19	208	
3/16/92 15:50	19	0	
3/17/92 7:50	20	0	
3/17/92 16:30	20	120	
3/18/92 7:55	21	127	
3/18/92 17:00	21	0	
3/19/92 7:50	22	0	
3/19/92 14:30	22	0	
3/20/92 8:00	23	0	
3/20/92 17:00	23	213	
3/21/92 7:45	24	128	
3/21/92 16:00	24	176	
3/22/92 7:45	25	165	
3/22/92 15:45	25	148	
3/23/92 7:45	26	146	
3/23/92 15:00	26	175	
3/24/92 8:00	27	123	
3/24/92 8:00	27	123	
3/24/92 16:45	27	144	
3/25/92 8:00	28	145	
3/25/92 16:30	28	116	
3/26/92 7:00	29	175	
3/26/92 16:00	29	90	
3/27/92 8:00	30	163	
3/27/92 17:00	30	213	
3/28/92 6:55	31	149	
3/28/92 14:00	31	150	
3/29/92 6:50	32	169	
3/29/92 14:55	32	180	
4/2/92 15:00	36	173	
4/2/92 15:01	36	166	
4/2/92 17:00	36	205	
4/2/92 19:00	36	79	
4/3/92 8:00	37	155	
4/3/92 16:05	37	123	
4/4/92 6:45	38	109	
4/5/92 8:00	39	113	
4/5/92 15:00	39	116	
4/5/92 15:00	39	124	
4/6/92 9:00	40	844	
4/6/92 16:00	40	124	
4/7/92 9:00	41	171	
4/7/92 16:00	41	190	
4/8/92 8:55	42	172	
4/8/92 16:00	42	168	
4/9/92 7:00	43	151	
4/9/92 7:00	43	143	
4/9/92 16:00	43	114	
4/10/92 7:00	44	112	
4/10/92 15:00	44	127	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
4/10/92 15:00	44	127	
4/11/92 7:00	45	136	
4/11/92 13:00	45	161	
4/12/92 7:00	46	137	
4/12/92 13:55	46	175	
4/13/92 8:00	47	221	
4/13/92 16:00	47	231	
4/14/92 8:00	48	193	
4/14/92 8:00	48	213	
4/14/92 16:00	48	199	
4/15/92 8:00	49	186	
4/15/92 15:00	49	174	
4/16/92 7:00	50	156	
4/16/92 15:55	50	122	
4/17/92 8:00	51	169	
4/17/92 14:00	51	145	
4/18/92 7:00	52	108	
4/18/92 13:00	52	126	
4/19/92 7:00	53	122	
4/19/92 7:00	53	105	
4/19/92 14:05	53	115	
4/20/92 7:00	54	0	
4/20/92 9:00	54	108	
4/20/92 16:00	54	162	
4/21/92 9:00	55	166	
4/21/92 16:00	55	154	
4/22/92 8:00	56	160	
4/22/92 8:00	56	162	
4/22/92 16:00	56	165	
4/23/92 9:00	57	161	
4/23/92 16:00	57	121	
4/24/92 9:00	58	174	
4/24/92 9:00	58	169	
4/24/92 14:00	58	175	
4/26/92 8:00	60	123	
4/26/92 14:00	60	114	
4/27/92 8:00	61	186	
4/27/92 15:00	61	173	
4/28/92 8:00	62	181	
4/28/92 15:00	62	166	
4/29/92 8:00	63	174	
4/29/92 15:00	63	184	
4/30/92 8:00	64	251	
4/30/92 16:00	64	84	
5/1/92 8:00	65	98	
5/1/92 15:00	65	155	
5/2/92 8:00	66	120	
5/3/92 8:00	67	114	
5/3/92 8:00	67	119	
5/4/92 8:00	68	192	
5/4/92 15:00	68	191	
5/5/92 8:00	69	174	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
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5/5/92 15:00	69	179
5/6/92 8:00	70	204
5/6/92 8:00	70	176
5/6/92 16:00	70	178
5/7/92 7:00	71	106
5/7/92 15:00	71	105
5/8/92 7:00	72	141
5/8/92 7:00	72	124
5/8/92 13:00	72	110
5/9/92 8:00	73	116
5/10/92 8:00	74	130
5/11/92 8:00	75	177
5/11/92 14:00	75	163
5/11/92 14:00	75	182
5/12/92 8:00	76	186
5/12/92 14:00	76	164
5/13/92 8:00	77	157
5/13/92 14:00	77	194
5/14/92 7:00	78	123
5/14/92 15:00	78	143
5/15/92 7:00	79	104
5/15/92 14:00	79	113
5/16/92 10:00	80	127
5/16/92 10:00	80	141
5/17/92 8:00	81	133
5/18/92 17:05	82	150
5/19/92 8:00	83	156
5/19/92 15:00	83	154
5/20/92 8:00	84	168
5/20/92 15:00	84	179
5/21/92 8:00	85	190
5/21/92 14:30	85	161
5/22/92 7:00	86	162
5/22/92 7:00	86	161
5/22/92 13:05	86	157
5/23/92 8:00	87	125
5/24/92 8:00	88	110
5/25/92 8:00	89	136
5/25/92 8:00	89	137
5/25/92 17:00	89	146
5/26/92 8:00	90	169
5/26/92 14:00	90	184
5/27/92 8:00	91	163
5/27/92 13:00	91	156
5/28/92 8:00	92	168
5/28/92 16:00	92	134
5/29/92 6:05	93	143
5/30/92 8:00	94	152
5/31/92 10:00	95	167
6/1/92 8:00	96	168
6/1/92 14:00	96	184
6/2/92 8:00	97	164

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
6/2/92 14:00	97	171	
6/3/92 8:00	98	150	
6/3/92 14:00	98	165	
6/4/92 8:00	99	175	
6/4/92 14:00	99	170	
6/5/92 8:00	100	122	
6/6/92 16:00	101	129	
6/6/92 16:00	101	122	
6/7/92 11:00	102	123	
6/8/92 8:00	103	90	
6/10/92 8:00	105	114	
6/10/92 14:00	105	125	
6/11/92 8:00	106	126	
6/11/92 14:00	106	80	
6/11/92 14:00	106	64	
6/12/92 8:00	107	191	
6/12/92 12:00	107	155	
6/13/92 12:00	108	168	
6/13/92 12:00	108	180	
6/14/92 13:00	109	168	
6/15/92 9:30	110	173	
6/15/92 15:00	110	160	
6/16/92 8:00	111	215	
6/16/92 14:00	111	196	
6/17/92 8:00	112		
6/17/92 8:00	112	183	
6/17/92 8:00	112	179	
6/17/92 8:05	112		
6/17/92 13:00	112		
6/17/92 13:00	112	183	
6/18/92 8:00	113	161	
6/18/92 8:05	113	0	
6/18/92 8:05	113		
6/18/92 16:25	113	378	
6/19/92 9:08	114	208	
6/19/92 9:08	114	220	
6/19/92 9:21	114		
6/19/92 9:21	114		
6/19/92 12:15	114	194	
6/23/92 8:30	118	162	
6/23/92 13:30	118	209	
6/24/92 8:00	119	193	
6/24/92 8:00	119	208	
6/24/92 12:00	119	178	
6/25/92 8:00	120	125	
6/25/92 12:30	120	186	
6/26/92 8:30	121	178	
6/26/92 13:00	121	167	
6/27/92 11:30	122	174	
6/27/92 11:30	122	175	
6/28/92 11:30	123	175	
6/29/92 7:30	124	177	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
6/29/92 13:00	124	186	
6/30/92 9:00	125	166	
6/30/92 14:00	125	172	
7/1/92 9:30	126	178	
7/1/92 9:30	126	170	
7/1/92 14:00	126	159	
7/2/92 8:00	127	179	
7/2/92 13:30	127	180	
7/3/92 8:00	128	175	
7/3/92 8:00	128	174	
7/3/92 12:00	128	169	
7/4/92 11:00	129	157	
7/5/92 11:00	130	170	
7/6/92 9:00	131	164	
7/6/92 15:00	131	164	
7/6/92 15:00	131	176	
7/7/92 9:30	132	144	
7/8/92 8:00	133	153	
7/8/92 15:00	133	169	
7/9/92 9:00	134	159	
7/9/92 14:00	134	148	
7/10/92 10:00	135	168	
7/10/92 13:00	135	188	
7/11/92 9:30	136	150	
7/12/92 10:15	137	182	
7/13/92 8:40	138	0	
7/13/92 8:40	138	192	
7/13/92 13:35	138	195	
7/14/92 8:40	139	183	
7/14/92 13:25	139	161	
7/15/92 8:11	140	160	
7/15/92 13:31	140	165	
7/16/92 8:10	141	163	
7/16/92 13:58	141	156	
7/17/92 9:45	142	208	
7/17/92 9:45	142	189	
7/17/92 13:29	142	153	
7/18/92 8:05	143	173	
7/19/91 8:02	-222	153	
7/20/92 7:45	145	207	
7/20/92 13:00	145	154	
7/21/92 9:10	146	128	
7/21/92 13:30	146	129	
7/22/92 8:39	147	119	
7/22/92 13:35	147	167	
7/23/92 8:02	148	149	
7/23/92 13:30	148	127	
7/24/92 7:50	149	135	
7/24/92 7:50	149	154	
7/24/92 13:00	149	145	
7/25/92 8:10	150	145	
7/26/92 9:30	151	137	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
7/27/92 8:00	152	121	
7/27/92 8:00	152	115	
7/27/92 13:00	152	173	
7/28/92 10:00	153	144	
7/28/92 12:00	153	166	
7/29/92 9:00	154	120	
7/29/92 13:00	154	140	
7/30/92 7:00	155	130	
7/30/92 12:00	155	130	
7/31/92 9:00	156	73	
7/31/92 12:00	156	92	
8/6/92 8:00	162	118	
8/6/92 12:00	162	142	
8/7/92 8:20	163	150	
8/7/92 13:22	163	109	
8/8/92 9:30	164	152	
8/9/92 8:00	165	143	
8/10/92 7:35	166	139	
8/10/92 13:20	166	182	
8/11/92 8:00	167	154	
8/11/92 8:00	167	153	
8/11/92 13:00	167	167	
8/12/92 7:50	168	147	
8/12/92 12:26	168	165	
8/13/92 8:20	169	132	
8/13/92 15:00	169	127	
8/14/92 8:15	170	141	
8/14/92 13:00	170	151	
8/15/92 8:20	171	152	
8/16/92 8:15	172	157	
8/17/92 9:00	173	128	
8/17/92 9:00	173	127	
8/17/92 14:30	173	162	
8/18/92 8:25	174	137	
8/18/92 14:00	174	157	
8/19/92 8:10	175	156	
8/20/92 17:00	176	150	
8/21/92 8:00	177	146	
8/21/92 13:30	177	133	
8/22/92 9:30	178	169	
8/23/92 10:00	179	167	
8/24/92 8:16	180	141	
8/24/92 13:30	180	166	
8/25/92 8:50	181	155	
8/25/92 14:00	181	175	
8/26/92 8:30	182	150	
8/26/92 13:30	182	181	
8/27/92 8:00	183	137	
8/27/92 13:30	183	156	
8/27/92 13:30	183	152	
8/28/92 8:30	184	152	
8/28/92 13:00	184	164	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
8/28/92 13:00	184	172	
8/29/92 9:00	185	161	
8/30/92 9:00	186	161	
8/31/92 8:30	187	155	
8/31/92 13:00	187	170	
9/1/92 21:25	188	146	
9/2/92 9:31	189	160	
9/2/92 9:31	189	163	
9/3/92 8:00	190	135	
9/3/92 13:40	190	188	
9/4/92 8:30	191	139	
9/4/92 12:00	191	173	
9/5/92 13:00	192	154	
9/6/92 9:55	193	148	
9/6/92 9:55	193	162	
9/7/92 10:00	194	172	
9/7/92 12:30	194	166	
9/8/92 8:55	195	177	
9/8/92 12:55	195	185	
9/9/92 8:55	196	133	
9/9/92 12:00	196	174	
9/9/92 12:00	196	162	
9/10/92 8:00	197	149	
9/10/92 12:00	197	131	
9/11/92 8:00	198	134	
9/11/92 12:00	198	171	
9/11/92 12:00	198	171	
9/12/92 9:00	199	156	
9/13/92 9:00	200	SITE	
9/14/92 9:00	201	125	
9/14/92 16:05	201	151	
9/15/92 9:00	202	141	
9/15/92 13:00	202	167	
9/16/92 9:40	203	158	
9/16/92 13:45	203	168	
9/17/92 8:30	204	160	
9/17/92 8:30	204	162	
9/17/92 14:00	204	147	
9/18/92 9:00	205	131	
9/18/92 13:30	205	179	
9/19/92 9:00	206	155	
9/20/92 10:30	207	161	
9/21/92 10:00	208	141	
9/21/92 13:30	-177	160	
9/21/92 14:00	208	163	
9/22/92 8:30	209	152	
9/22/92 8:30	209	148	
9/22/92 13:00	209	157	
9/23/92 8:30	210	169	
9/23/92 13:00	210	194	
9/24/92 8:15	211	184	
9/24/92 13:00	211	162	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
9/27/92 8:30	214	161	
9/28/92 8:00	215	168	
9/28/92 13:00	215	176	
9/29/92 8:30	216	160	
9/29/92 8:30	216	161	
9/29/92 14:30	216	178	
10/1/92 9:30	218	164	
10/1/92 14:00	218	158	
10/2/92 8:30	219	155	
10/2/92 13:00	219	174	
10/2/92 13:00	219	182	
10/3/92 9:30	220	162	
10/4/92 8:28	221	159	
10/4/92 8:28	221	169	
10/5/92 8:30	222	140	
10/5/92 13:30	222	166	
10/6/92 9:00	223	172	
10/6/92 13:30	223	187	
10/7/92 9:00	224	169	
10/7/92 13:30	224	188	
10/7/92 13:30	224	189	
10/8/92 9:30	225	162	
10/8/92 14:00	225	166	
10/9/92 9:00	226	179	
10/9/92 13:30	226	191	
10/10/92 10:30	227	170	
10/11/92 9:30	228	172	
10/15/92 10:00	232	175	
10/15/92 13:00	232	180	
10/15/92 13:00	232	181	
10/16/92 9:00	233	170	
10/16/92 13:00	233	152	
10/17/92 9:23	234	171	
10/18/92 9:30	235	167	
10/19/92 9:30	236	172	
10/19/92 13:30	236	187	
10/19/92 13:30	236	180	
10/20/92 9:30	237	171	
10/20/92 13:30	237	180	
10/21/92 9:30	238	161	
10/21/92 13:00	238	194	
10/22/92 9:00	239	141	
10/22/92 12:00	239	157	
10/22/92 12:00	239	156	
10/23/92 9:30	240	147	
10/23/92 14:00	240	110	
10/24/92 10:30	241	147	
10/25/92 9:07	242	153	
10/26/92 9:00	243	147	
10/26/92 15:00	243	167	
10/27/92 9:00	244	138	
10/27/92 14:30	244	174	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
10/28/92 9:07	245	154	
10/28/92 13:30	245	168	
10/29/92 9:00	246	138	
10/29/92 13:00	246	166	
10/30/92 10:25	247	132	
10/30/92 18:00	247	146	
10/31/92 11:00	248	128	
10/31/92 11:00	248	125	
11/1/92 14:00	249	156	
11/2/92 10:00	250	143	
11/2/92 15:00	250	136	
11/3/92 9:30	251	136	
11/3/92 17:30	251	143	
11/4/92 9:33	252	153	
11/4/92 9:33	252	152	
11/4/92 14:00	252	151	
11/5/92 9:30	253	138	
11/5/92 13:00	253	147	
11/6/92 9:30	254	156	
11/6/92 9:30	254	161	
11/6/92 14:00	254	171	
11/7/92 9:30	255	146	
11/8/92 10:30	256	165	
11/8/92 10:30	256	170	
11/9/92 9:30	257	155	
11/9/92 13:30	257	164	
11/10/92 10:00	258	145	
11/10/92 14:00	258	167	
11/11/92 19:32	259	163	
11/12/92 9:30	260	182	
11/12/92 9:30	260	178	
11/12/92 13:00	260	162	
11/13/92 9:30	261	161	
11/13/92 13:00	261	167	
11/14/92 15:00	262	160	
11/15/92 13:00	263	188	
11/16/92 9:30	264	142	
11/16/92 13:00	264	160	
11/17/92 10:00	265	135	
11/17/92 10:00	265	130	
11/17/92 14:30	265	136	
11/18/92 9:00	266	131	
11/18/92 13:00	266	158	
11/19/92 9:00	267	114	
11/19/92 13:00	267	166	
11/20/92 10:00	268	123	
11/20/92 14:00	268	122	
11/21/92 12:00	269	114	
11/21/92 12:00	269	111	
11/22/92 12:00	270	127	
12/14/92 10:00	292	141	
12/14/92 15:00	292	136	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
12/15/92 9:30	293	139	
12/15/92 13:30	293	152	
12/16/92 9:00	294	141	
12/16/92 14:00	294	157	
12/17/92 9:00	295	137	
12/17/92 13:00	295	157	
12/18/92 9:30	296	135	
12/18/92 13:00	296	159	
12/19/92 17:30	297	131	
12/19/92 17:30	297	139	
12/20/92 10:30	298	164	
12/21/92 10:00	299	158	
12/21/92 14:30	299	136	
12/22/92 10:00	300	131	
12/22/92 13:30	300	125	
12/23/92 9:00	301	133	
12/23/92 14:00	301	155	
12/24/92 10:30	302	127	
12/24/92 12:30	302	153	
12/26/92 13:00	304	147	
12/26/92 13:00	304	147	
12/27/92 12:30	305	149	
12/28/92 16:30	306	186	
12/29/92 11:00	307	190	
12/29/92 14:00	307	192	
12/30/92 10:00	308	190	
12/30/92 14:30	308	199	
12/31/92 11:00	309	189	
12/31/92 12:00	309	212	
1/2/93 12:00	311	199	
1/2/93 12:00	311	194	
1/3/93 15:00	312	196	
1/4/93 10:30	313	200	
1/4/93 14:30	313	193	
1/5/93 9:30	314	196	
1/5/93 14:00	314	191	
1/6/93 9:30	315	180	
1/6/93 9:30	315	183	
1/6/93 14:30	315	205	
1/7/93 10:00	316	191	
1/7/93 13:30	316	142	
1/8/93 9:30	317	184	
1/8/93 13:30	317	193	
1/9/93 12:00	318	179	
1/10/93 14:30	319	180	
1/11/93 11:00	320	190	
1/11/93 14:30	320	207	
1/12/93 11:30	321	128	
1/12/93 11:30	321	131	
1/12/93 14:30	321	142	
1/13/93 8:30	322	197	
1/14/93 10:30	323	183	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
1/15/93 10:30	324	184	
1/26/93 16:00	335	174	
1/26/93 16:00	335	181	
1/27/93 10:30	336	179	
1/28/93 9:30	337	188	
1/29/93 8:30	338	165	
1/29/93 8:30	338	182	
1/31/93 11:00	340	179	
2/1/93 10:30	341	193	
2/1/93 13:30	341	198	
2/1/93 13:30	341	188	
2/2/93 9:15	342	186	
2/2/93 14:00	342	202	
2/3/93 9:30	343	190	
2/3/93 15:00	343	220	
2/4/93 10:00	344	203	
2/4/93 10:00	344	208	
2/4/93 15:00	344	223	
2/5/93 10:00	345	185	
2/5/93 15:30	345	188	
2/7/93 15:00	347	179	
2/8/93 10:30	348	180	
2/8/93 10:30	348	189	
2/8/93 15:00	348	191	
2/9/93 10:30	349	185	
2/10/93 13:00	350	201	
2/11/93 9:00	351	*133	
2/11/93 9:00	351	*126	
2/11/93 14:00	351	*99	
2/12/93 10:00	352	192	
2/12/93 16:00	352	198	
2/13/93 11:30	353	196	
2/14/93 19:00	354	208	
2/15/93 9:00	355	208	
2/15/93 9:00	355	201	
2/15/93 14:30	355	216	
2/16/93 9:00	356	202	
2/16/93 14:30	356	212	
2/17/93 9:00	357	203	
2/17/93 15:00	357	217	
2/18/93 10:00	358	220	
2/18/93 14:00	358	232	
2/19/93 9:30	359	193	
2/19/93 14:00	359	223	
2/24/93 11:00	364	220	
2/24/93 15:50	364	211	
2/25/93 9:30	365	217	
2/25/93 13:55	365	220	
2/25/93 13:55	365	227	
2/26/93 9:30	366	198	
2/26/93 13:30	366	213	
2/27/93 13:00	367	193	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
2/28/93 10:00	368	210	
2/28/93 10:00	368	209	
2/28/93 15:45	368	204	
3/1/93 10:00	369	205	
3/1/93 15:00	369	204	
3/2/93 8:30	370	197	
3/2/93 15:00	370	201	
3/3/93 10:00	371	207	
3/3/93 14:00	371	205	
3/4/93 10:00	372	197	
3/4/93 13:30	372	202	
3/5/93 9:30	373	199	
3/5/93 14:30	373	214	
3/5/93 14:30	373	220	
3/6/93 10:00	374	175	
3/6/93 10:00	374	181	
3/6/93 16:30	374	199	
3/7/93 13:00	375	215	
3/8/93 10:30	376	211	
3/8/93 16:00	376	221	
3/9/93 10:00	377	213	
3/9/93 14:00	377	216	
3/9/93 14:00	377	223	
3/10/93 9:30	378	193	
3/10/93 13:00	378	193	
3/11/93 8:00	379	206	
3/11/93 12:00	379	190	
3/12/93 10:00	380	210	
3/12/93 10:00	380	202	
3/12/93 14:00	380	204	
3/13/93 13:00	381	200	
3/14/93 15:00	382	174	
3/15/93 14:00	383	194	
3/16/93 9:30	384	205	
3/16/93 15:30	384	202	
3/17/93 9:00	385	180	
3/17/93 13:00	385	178	
3/18/93 9:00	386	191	
3/18/93 13:00	386	194	
3/19/93 10:30	387	178	
3/19/93 14:00	387	177	
3/20/93 9:30	388	174	
3/20/93 13:00	388	176	
3/21/93 9:30	389	155	
3/22/93 9:30	390	159	
3/22/93 15:00	390	168	
3/23/93 11:00	391	170	
3/23/93 11:00	391	174	
3/23/93 15:00	391	175	
3/24/93 7:00	392	168	
3/24/93 16:00	392	176	
3/25/93 9:30	393	184	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
3/25/93 9:30	393	190	
3/25/93 13:30	393	177	
3/26/93 9:00	394	139	
3/26/93 13:00	394	189	
3/27/93 11:00	395	170	
3/28/93 9:00	396	170	
3/28/93 9:00	396	168	
3/28/93 13:00	396	230	
3/29/93 10:00	397	161	
3/29/93 18:33	397	152	
3/30/93 9:00	398	210	
3/30/93 17:00	398	198	
3/31/93 10:30	399	203	
3/31/93 13:00	399	188	
4/1/93 10:00	400	182	
4/1/93 13:00	400	181	
4/2/93 10:30	401	181	
4/2/93 14:00	401	182	
4/2/93 14:00	401	182	
4/3/93 13:00	402	199	
4/4/93 14:00	403	209	
4/5/93 11:00	404	181	
4/5/93 16:00	404	173	
4/6/93 11:30	405	181	
4/6/93 13:30	405	212	
4/7/93 10:00	406	195	
4/7/93 13:00	406	187	
4/8/93 10:00	407	199	
4/8/93 17:30	407	180	
4/8/93 17:30	407	196	
4/9/93 13:15	408	168	
4/9/93 16:00	408	185	
4/10/93 12:00	409	196	
4/11/93 10:30	410	150	
4/11/93 20:00	410	191	
4/12/93 10:08	411	188	
4/12/93 10:08	411	192	
4/12/93 12:15	411	204	
4/13/93 11:00	412	185	
4/13/93 15:30	412	189	
4/14/93 11:00	413	189	
4/14/93 14:00	413	186	
4/15/93 10:00	414	179	
4/15/93 17:00	414	180	
4/16/93 10:30	415	160	
4/16/93 16:30	415	187	
4/17/93 11:00	416	179	
4/17/93 13:00	416	196	
4/18/93 12:00	417	189	
4/18/93 12:00	417	186	
4/19/93 7:30	418	156	
4/19/93 14:30	418	181	

DATES	DAYS	PCE (PPM)	PCEINFLU.XLS
4/20/93 10:30	419	191	
4/20/93 13:00	419	206	
4/21/93 11:00	420	180	
4/21/93 15:00	420	184	
4/21/93 15:00	420	196	
4/22/93 11:30	421	202	
4/24/93 12:00	423	110	
4/25/93 18:45	424	213	
4/25/93 7:38	#VALUE!	123	
4/25/93 18:45	424	0	
4/25/93 18:45	424	213	
4/26/93 9:08	425	127	
4/26/93 13:18	425	112	
4/27/93 7:45	426	201	
4/27/93 7:45	426	208	
4/27/93 19:15	426	260	
4/28/93 9:13	427	211	
4/28/93 12:10	427	254	
4/29/93 8:15	428	245	
4/29/93 16:08	428	158	
4/29/93 16:08	428	158	
4/30/93 9:12	429	145	
4/30/93 17:26	429	139	

DATES

DAYS

VOC IN (PPM)

VOCINFLU.XLS

WSRC DATA & CHART

FILE NAME:

VOCINFLU.XLS

TOTAL VOC INFLUENT CONCENTRATIONS

DATES	DAYS	TOTAL VOC (PPM)
2/26/92 10:42	0	304
2/26/92 10:59	0	285
2/26/92 11:20	0	399
2/26/92 12:20	0	331
2/26/92 13:38	0	387
2/26/92 15:20	0	252
2/26/92 19:30	0	333
2/26/92 23:25	1	342
2/27/92 3:20	1	338
2/27/92 7:20	1	343
2/27/92 11:27	1	248
2/27/92 15:22	1	257
2/28/92 6:23	2	292
2/28/92 18:20	2	441
2/29/92 7:05	3	329
2/29/92 19:10	3	632
3/1/92 3:12	4	216
3/1/92 15:05	4	397
3/2/92 7:45	5	553
3/2/92 19:00	5	515
3/5/92 23:45	9	422
3/6/92 0:45	9	415
3/6/92 2:45	9	289
3/6/92 6:45	9	326
3/6/92 10:45	9	452
3/6/92 14:45	9	482
3/6/92 14:46	9	475
3/7/92 7:45	10	405
3/7/92 16:45	10	391
3/8/92 7:45	11	0
3/8/92 16:45	11	300
3/9/92 7:45	12	361
3/9/92 16:45	12	361
3/9/92 16:45	12	336
3/10/92 7:45	13	457
3/10/92 16:45	13	362
3/11/92 7:50	14	353
3/11/92 16:45	14	274
3/12/92 7:50	15	333
3/12/92 7:50	15	348
3/12/92 15:45	15	387
3/13/92 7:45	16	392
3/13/92 16:45	16	0
3/14/92 7:45	17	432
3/14/92 15:45	17	0

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
3/15/92 7:30	18	292	
3/15/92 16:15	18	296	
3/16/92 7:35	19	354	
3/16/92 15:50	19	0	
3/17/92 7:50	20	0	
3/17/92 16:30	20	221	
3/18/92 7:55	21	225	
3/18/92 17:00	21	0	
3/19/92 7:50	22	0	
3/19/92 14:30	22	0	
3/20/92 8:00	23	0	
3/20/92 17:00	23	357	
3/21/92 7:45	24	215	
3/21/92 16:00	24	297	
3/22/92 7:45	25	280	
3/22/92 15:45	25	251	
3/23/92 7:45	26	258	
3/23/92 15:00	26	301	
3/24/92 8:00	27	239	
3/24/92 8:00	27	224	
3/24/92 16:45	27	256	
3/25/92 8:00	28	253	
3/25/92 16:30	28	201	
3/26/92 7:00	29	299	
3/26/92 16:00	29	161	
3/27/92 8:00	30	278	
3/27/92 17:00	30	352	
3/28/92 6:55	31	241	
3/28/92 14:00	31	255	
3/29/92 6:50	32	275	
3/29/92 14:55	32	288	
4/2/92 15:00	36	305	
4/2/92 15:01	36	294	
4/2/92 17:00	36	355	
4/2/92 19:00	36	176	
4/3/92 8:00	37	265	
4/3/92 16:05	37	206	
4/4/92 6:45	38	180	
4/5/92 8:00	39	191	
4/5/92 15:00	39	189	
4/5/92 15:00	39	200	
4/6/92 9:00	40	1248	
4/6/92 16:00	40	211	
4/7/92 9:00	41	288	
4/7/92 16:00	41	313	
4/8/92 8:55	42	272	
4/8/92 16:00	42	0	
4/9/92 7:00	43	253	
4/9/92 7:00	43	229	
4/9/92 16:00	43	190	
4/10/92 7:00	44	221	
4/10/92 15:00	44	208	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
4/10/92 15:00	44	210	
4/11/92 7:00	45	223	
4/11/92 13:00	45	257	
4/12/92 7:00	46	256	
4/12/92 13:55	46	275	
4/13/92 8:00	47	347	
4/13/92 16:00	47	353	
4/14/92 8:00	48	301	
4/14/92 8:00	48	323	
4/14/92 16:00	48	317	
4/15/92 8:00	49	309	
4/15/92 15:00	49	270	
4/16/92 7:00	50	248	
4/16/92 15:55	50	230	
4/17/92 8:00	51	262	
4/17/92 14:00	51	225	
4/18/92 7:00	52	209	
4/18/92 13:00	52	203	
4/19/92 7:00	53	222	
4/19/92 7:00	53	171	
4/19/92 14:05	53	213	
4/20/92 7:00	54	0	
4/20/92 9:00	54	181	
4/20/92 16:00	54	281	
4/21/92 9:00	55	276	
4/21/92 16:00	55	262	
4/22/92 8:00	56	267	
4/22/92 8:00	56	269	
4/22/92 16:00	56	275	
4/23/92 9:00	57	278	
4/23/92 16:00	57	213	
4/24/92 9:00	58	294	
4/24/92 9:00	58	278	
4/24/92 14:00	58	284	
4/26/92 8:00	60	242	
4/26/92 14:00	60	226	
4/27/92 8:00	61	310	
4/27/92 15:00	61	288	
4/28/92 8:00	62	300	
4/28/92 15:00	62	274	
4/29/92 8:00	63	297	
4/29/92 15:00	63	297	
4/30/92 8:00	64	408	
4/30/92 16:00	64	156	
5/1/92 8:00	65	212	
5/1/92 15:00	65	260	
5/2/92 8:00	66	248	
5/3/92 8:00	67	230	
5/3/92 8:00	67	209	
5/4/92 8:00	68	326	
5/4/92 15:00	68	320	
5/5/92 8:00	69	297	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
5/5/92 15:00	69	189	
5/6/92 8:00	70	337	
5/6/92 8:00	70	295	
5/6/92 16:00	70	295	
5/7/92 7:00	71	222	
5/7/92 15:00	71	187	
5/8/92 7:00	72	259	
5/8/92 7:00	72	252	
5/8/92 13:00	72	199	
5/9/92 8:00	73	240	
5/10/92 8:00	74	256	
5/11/92 8:00	75	299	
5/11/92 14:00	75	275	
5/11/92 14:00	75	300	
5/12/92 8:00	76	299	
5/12/92 14:00	76	277	
5/13/92 8:00	77	261	
5/13/92 14:00	77	307	
5/14/92 7:00	78	246	
5/14/92 15:00	78	249	
5/15/92 7:00	79	217	
5/15/92 14:00	79	200	
5/16/92 10:00	80	246	
5/16/92 10:00	80	244	
5/17/92 8:00	81	257	
5/18/92 17:05	82	249	
5/19/92 8:00	83	266	
5/19/92 15:00	83	250	
5/20/92 8:00	84	282	
5/20/92 15:00	84	297	
5/21/92 8:00	85	309	
5/21/92 14:30	85	243	
5/22/92 7:00	86	245	
5/22/92 7:00	86	245	
5/22/92 13:05	86	235	
5/23/92 8:00	87	195	
5/24/92 8:00	88	171	
5/25/92 8:00	89	207	
5/25/92 8:00	89	211	
5/25/92 17:00	89	223	
5/26/92 8:00	90	253	
5/26/92 14:00	90	276	
5/27/92 8:00	91	248	
5/27/92 13:00	91	235	
5/28/92 8:00	92	256	
5/28/92 16:00	92	207	
5/29/92 6:05	93	229	
5/30/92 8:00	94	240	
5/31/92 10:00	95	258	
6/1/92 8:00	96	262	
6/1/92 14:00	96	284	
6/2/92 8:00	97	258	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
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6/2/92 14:00	97	262
6/3/92 8:00	98	238
6/3/92 14:00	98	259
6/4/92 8:00	99	272
6/4/92 14:00	99	267
6/5/92 8:00	100	201
6/6/92 16:00	101	208
6/6/92 16:00	101	200
6/7/92 11:00	102	201
6/8/92 8:00	103	152
6/10/92 8:00	105	187
6/10/92 14:00	105	203
6/11/92 8:00	106	202
6/11/92 14:00	106	139
6/11/92 14:00	106	119
6/12/92 8:00	107	296
6/12/92 12:00	107	241
6/13/92 12:00	108	273
6/13/92 12:00	108	290
6/14/92 13:00	109	266
6/15/92 9:30	110	271
6/15/92 15:00	110	252
6/16/92 8:00	111	346
6/16/92 14:00	111	307
6/17/92 8:00	112	
6/17/92 8:00	112	286
6/17/92 8:00	112	285
6/17/92 8:05	112	
6/17/92 13:00	112	
6/17/92 13:00	112	290
6/18/92 8:00	113	258
6/18/92 8:05	113	0
6/18/92 8:05	113	
6/18/92 16:25	113	529
6/19/92 9:08	114	344
6/19/92 9:08	114	336
6/19/92 9:21	114	
6/19/92 9:21	114	
6/19/92 12:15	114	354
6/23/92 8:30	118	256
6/23/92 13:30	118	316
6/24/92 8:00	119	294
6/24/92 8:00	119	310
6/24/92 12:00	119	275
6/25/92 8:00	120	203
6/25/92 12:30	120	294
6/26/92 8:30	121	281
6/26/92 13:00	121	259
6/27/92 11:30	122	276
6/27/92 11:30	122	270
6/28/92 11:30	123	278
6/29/92 7:30	124	270

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
6/29/92 13:00	124	283	
6/30/92 9:00	125	255	
6/30/92 14:00	125	264	
7/1/92 9:30	126	279	
7/1/92 9:30	126	263	
7/1/92 14:00	126	245	
7/2/92 8:00	127	279	
7/2/92 13:30	127	274	
7/3/92 8:00	128	274	
7/3/92 8:00	128	267	
7/3/92 12:00	128	266	
7/4/92 11:00	129	247	
7/5/92 11:00	130	259	
7/6/92 9:00	131	250	
7/6/92 15:00	131	255	
7/6/92 15:00	131	263	
7/7/92 9:30	132	226	
7/8/92 8:00	133	233	
7/8/92 15:00	133	256	
7/9/92 9:00	134	243	
7/9/92 14:00	134	226	
7/10/92 10:00	135	256	
7/10/92 13:00	135	284	
7/11/92 9:30	136	228	
7/12/92 10:15	137	281	
7/13/92 8:40	138	0	
7/13/92 8:40	138	280	
7/13/92 13:35	138	283	
7/14/92 8:40	139	274	
7/14/92 13:25	139	250	
7/15/92 8:11	140	247	
7/15/92 13:31	140	255	
7/16/92 8:10	141	245	
7/16/92 13:58	141	249	
7/17/92 9:45	142	300	
7/17/92 9:45	142	278	
7/17/92 13:29	142	238	
7/18/92 8:05	143	262	
7/19/91 8:02	-222	231	
7/20/92 7:45	145	299	
7/20/92 13:00	145	239	
7/21/92 9:10	146	203	
7/21/92 13:30	146	211	
7/22/92 8:39	147	194	
7/22/92 13:35	147	257	
7/23/92 8:02	148	236	
7/23/92 13:30	148	208	
7/24/92 7:50	149	212	
7/24/92 7:50	149	228	
7/24/92 13:00	149	236	
7/25/92 8:10	150	236	
7/26/92 9:30	151	207	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
7/27/92 8:00	152	196	
7/27/92 8:00	152	171	
7/27/92 13:00	152	259	
7/28/92 10:00	153	223	
7/28/92 12:00	153	256	
7/29/92 9:00	154	193	
7/29/92 13:00	154	222	
7/30/92 7:00	155	192	
7/30/92 12:00	155	201	
7/31/92 9:00	156	122	
7/31/92 12:00	156	146	
8/6/92 8:00	162	193	
8/6/92 12:00	162	226	
8/7/92 8:20	163	239	
8/7/92 13:22	163	191	
8/8/92 9:30	164	241	
8/9/92 8:00	165	228	
8/10/92 7:35	166	224	
8/10/92 13:20	166	279	
8/11/92 8:00	167	239	
8/11/92 8:00	167	241	
8/11/92 13:00	167	268	
8/12/92 7:50	168	232	
8/12/92 12:26	168	263	
8/13/92 8:20	169	218	
8/13/92 15:00	169	199	
8/14/92 8:15	170	229	
8/14/92 13:00	170	243	
8/15/92 8:20	171	242	
8/16/92 8:15	172	247	
8/17/92 9:00	173	202	
8/17/92 9:00	173	201	
8/17/92 14:30	173	259	
8/18/92 8:25	174	220	
8/18/92 14:00	174	260	
8/19/92 8:10	175	242	
8/20/92 17:00	176	238	
8/21/92 8:00	177	227	
8/21/92 13:30	177	219	
8/22/92 9:30	178	260	
8/23/92 10:00	179	258	
8/24/92 8:16	180	225	
8/24/92 13:30	180	264	
8/25/92 8:50	181	246	
8/25/92 14:00	181	279	
8/26/92 8:30	182	239	
8/26/92 13:30	182	286	
8/27/92 8:00	183	220	
8/27/92 13:30	183	248	
8/27/92 13:30	183	244	
8/28/92 8:30	184	247	
8/28/92 13:00	184	265	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
8/28/92 13:00	184	274	
8/29/92 9:00	185	250	
8/30/92 9:00	186	254	
8/31/92 8:30	187	241	
8/31/92 13:00	187	270	
9/1/92 21:25	188	234	
9/2/92 9:31	189	258	
9/2/92 9:31	189	267	
9/3/92 8:00	190	222	
9/3/92 13:40	190	293	
9/4/92 8:30	191	227	
9/4/92 12:00	191	272	
9/5/92 13:00	192	244	
9/6/92 9:55	193	238	
9/6/92 9:55	193	255	
9/7/92 10:00	194	269	
9/7/92 12:30	194	267	
9/8/92 8:55	195	274	
9/8/92 12:55	195	287	
9/9/92 8:55	196	217	
9/9/92 12:00	196	266	
9/9/92 12:00	196	254	
9/10/92 8:00	197	235	
9/10/92 12:00	197	215	
9/11/92 8:00	198	215	
9/11/92 12:00	198	270	
9/11/92 12:00	198	268	
9/12/92 9:00	199	249	
9/13/92 9:00	200	POWER	
9/14/92 9:00	201	206	
9/14/92 16:05	201	249	
9/15/92 9:00	202	225	
9/15/92 13:00	202	266	
9/16/92 9:40	203	251	
9/16/92 13:45	203	267	
9/17/92 8:30	204	252	
9/17/92 8:30	204	255	
9/17/92 14:00	204	244	
9/18/92 9:00	205	218	
9/18/92 13:30	205	291	
9/19/92 9:00	206	247	
9/20/92 10:30	207	258	
9/21/92 10:00	208	245	
9/21/92 13:30	-177	257	
9/21/92 14:00	208	261	
9/22/92 8:30	209	242	
9/22/92 8:30	209	236	
9/22/92 13:00	209	248	
9/23/92 8:30	210	268	
9/23/92 13:00	210	313	
9/24/92 8:15	211	287	
9/24/92 13:00	211	257	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
9/27/92 8:30	214	259	
9/28/92 8:00	215	267	
9/28/92 13:00	215	278	
9/29/92 8:30	216	256	
9/29/92 8:30	216	257	
9/29/92 14:30	216	283	
10/1/92 9:30	218	263	
10/1/92 14:00	218	256	
10/2/92 8:30	219	254	
10/2/92 13:00	219	277	
10/2/92 13:00	219	288	
10/3/92 9:30	220	259	
10/4/92 8:28	221	254	
10/4/92 8:28	221	266	
10/5/92 8:30	222	226	
10/5/92 13:30	222	262	
10/6/92 9:00	223	249	
10/6/92 13:30	223	270	
10/7/92 9:00	224	246	
10/7/92 13:30	224	276	
10/7/92 13:30	224	275	
10/8/92 9:30	225	236	
10/8/92 14:00	225	244	
10/9/92 9:00	226	258	
10/9/92 13:30	226	277	
10/10/92 10:30	227	247	
10/11/92 9:30	228	250	
10/15/92 10:00	232	256	
10/15/92 13:00	232	263	
10/15/92 13:00	232	265	
10/16/92 9:00	233	246	
10/16/92 13:00	233	229	
10/17/92 9:23	234	249	
10/18/92 9:30	235	242	
10/19/92 9:30	236	251	
10/19/92 13:30	236	276	
10/19/92 13:30	236	264	
10/20/92 9:30	237	250	
10/20/92 13:30	237	260	
10/21/92 9:30	238	234	
10/21/92 13:00	238	281	
10/22/92 9:00	239	205	
10/22/92 12:00	239	228	
10/22/92 12:00	239	227	
10/23/92 9:30	240	213	
10/23/92 14:00	240	155	
10/24/92 10:30	241	215	
10/25/92 9:07	242	222	
10/26/92 9:00	243	210	
10/26/92 15:00	243	236	
10/27/92 9:00	244	196	
10/27/92 14:30	244	248	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
10/28/92 9:07	245	225	
10/28/92 13:30	245	239	
10/29/92 9:00	246	201	
10/29/92 13:00	246	241	
10/30/92 10:25	247	189	
10/30/92 18:00	247	203	
10/31/92 11:00	248	182	
10/31/92 11:00	248	178	
11/1/92 14:00	249	224	
11/2/92 10:00	250	205	
11/2/92 15:00	250	194	
11/3/92 9:30	251	193	
11/3/92 17:30	251	203	
11/4/92 9:33	252	217	
11/4/92 9:33	252	216	
11/4/92 14:00	252	215	
11/5/92 9:30	253	197	
11/5/92 13:00	253	208	
11/6/92 9:30	254	223	
11/6/92 9:30	254	229	
11/6/92 14:00	254	243	
11/7/92 9:30	255	212	
11/8/92 10:30	256	233	
11/8/92 10:30	256	240	
11/9/92 9:30	257	220	
11/9/92 13:30	257	231	
11/10/92 10:00	258	206	
11/10/92 14:00	258	235	
11/11/92 19:32	259	231	
11/12/92 9:30	260	254	
11/12/92 9:30	260	249	
11/12/92 13:00	260	227	
11/13/92 9:30	261	226	
11/13/92 13:00	261	236	
11/14/92 15:00	262	226	
11/15/92 13:00	263	264	
11/16/92 9:30	264	201	
11/16/92 13:00	264	225	
11/17/92 10:00	265	194	
11/17/92 10:00	265	189	
11/17/92 14:30	265	196	
11/18/92 9:00	266	190	
11/18/92 13:00	266	226	
11/19/92 9:00	267	165	
11/19/92 13:00	267	235	
11/20/92 10:00	268	179	
11/20/92 14:00	268	176	
11/21/92 12:00	269	165	
11/21/92 12:00	269	161	
11/22/92 12:00	270	184	
12/14/92 10:00	292	206	
12/14/92 15:00	292	200	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
12/15/92 9:30	293	202	
12/15/92 13:30	293	218	
12/16/92 9:00	294	208	
12/16/92 14:00	294	228	
12/17/92 9:00	295	200	
12/17/92 13:00	295	228	
12/18/92 9:30	296	196	
12/18/92 13:00	296	229	
12/19/92 17:30	297	192	
12/19/92 17:30	297	200	
12/20/92 10:30	298	235	
12/21/92 10:00	299	225	
12/21/92 14:30	299	197	
12/22/92 10:00	300	189	
12/22/92 13:30	300	181	
12/23/92 9:00	301	192	
12/23/92 14:00	301	221	
12/24/92 10:30	302	188	
12/24/92 12:30	302	220	
12/26/92 13:00	304	211	
12/26/92 13:00	304	211	
12/27/92 12:30	305	215	
12/28/92 16:30	306	260	
12/29/92 11:00	307	265	
12/29/92 14:00	307	266	
12/30/92 10:00	308	266	
12/30/92 14:30	308	276	
12/31/92 11:00	309	268	
12/31/92 12:00	309	293	
1/2/93 12:00	311	276	
1/2/93 12:00	311	269	
1/3/93 15:00	312	273	
1/4/93 10:30	313	276	
1/4/93 14:30	313	269	
1/5/93 9:30	314	271	
1/5/93 14:00	314	267	
1/6/93 9:30	315	252	
1/6/93 9:30	315	257	
1/6/93 14:30	315	285	
1/7/93 10:00	316	264	
1/7/93 13:30	316	206	
1/8/93 9:30	317	257	
1/8/93 13:30	317	260	
1/9/93 12:00	318	250	
1/10/93 14:30	319	252	
1/11/93 11:00	320	265	
1/11/93 14:30	320	284	
1/12/93 11:30	321	180	
1/12/93 11:30	321	183	
1/12/93 14:30	321	200	
1/13/93 8:30	322	272	
1/14/93 10:30	323	259	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
1/15/93 10:30	324	257	
1/26/93 16:00	335	245	
1/26/93 16:00	335	255	
1/27/93 10:30	336	252	
1/28/93 9:30	337	264	
1/29/93 8:30	338	241	
1/29/93 8:30	338	259	
1/31/93 11:00	340	250	
2/1/93 10:30	341	264	
2/1/93 13:30	341	274	
2/1/93 13:30	341	262	
2/2/93 9:15	342	256	
2/2/93 14:00	342	278	
2/3/93 9:30	343	262	
2/3/93 15:00	343	304	
2/4/93 10:00	344	279	
2/4/93 10:00	344	285	
2/4/93 15:00	344	304	
2/5/93 10:00	345	256	
2/5/93 15:30	345	256	
2/7/93 15:00	347	247	
2/8/93 10:30	348	252	
2/8/93 10:30	348	263	
2/8/93 15:00	348	265	
2/9/93 10:30	349	260	
2/10/93 13:00	350	275	
2/11/93 9:00	351	*180	
2/11/93 9:00	351	*171	
2/11/93 14:00	351	*134	
2/12/93 10:00	352	264	
2/12/93 16:00	352	270	
2/13/93 11:30	353	267	
2/14/93 19:00	354	282	
2/15/93 9:00	355	282	
2/15/93 9:00	355	276	
2/15/93 14:30	355	293	
2/16/93 9:00	356	275	
2/16/93 14:30	356	288	
2/17/93 9:00	357	277	
2/17/93 15:00	357	296	
2/18/93 10:00	358	298	
2/18/93 14:00	358	315	
2/19/93 9:30	359	268	
2/19/93 14:00	359	304	
2/24/93 11:00	364	299	
2/24/93 15:50	364	288	
2/25/93 9:30	365	295	
2/25/93 13:55	365	299	
2/25/93 13:55	365	306	
2/26/93 9:30	366	274	
2/26/93 13:30	366	288	
2/27/93 13:00	367	267	

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
2/28/93 10:00	368	285	
2/28/93 10:00	368	285	
2/28/93 15:45	368	278	
3/1/93 10:00	369	279	
3/1/93 15:00	369	276	
3/2/93 8:30	370	269	
3/2/93 15:00	370	273	
3/3/93 10:00	371	280	
3/3/93 14:00	371	279	
3/4/93 10:00	372	268	
3/4/93 13:30	372	278	
3/5/93 9:30	373	270	
3/5/93 14:30	373	293	
3/5/93 14:30	373	297	
3/6/93 10:00	374	245	
3/6/93 10:00	374	252	
3/6/93 16:30	374	271	
3/7/93 13:00	375	293	
3/8/93 10:30	376	287	
3/8/93 16:00	376	300	
3/9/93 10:00	377	289	
3/9/93 14:00	377	294	
3/9/93 14:00	377	302	
3/10/93 9:30	378	262	
3/10/93 13:00	378	263	
3/11/93 8:00	379	278	
3/11/93 12:00	379	258	
3/12/93 10:00	380	285	
3/12/93 10:00	380	275	
3/12/93 14:00	380	277	
3/13/93 13:00	381	269	
3/14/93 15:00	382	244	
3/15/93 14:00	383	266	
3/16/93 9:30	384	279	
3/16/93 15:30	384	276	
3/17/93 9:00	385	248	
3/17/93 13:00	385	244	
3/18/93 9:00	386	265	
3/18/93 13:00	386	265	
3/19/93 10:30	387	249	
3/19/93 14:00	387	244	
3/20/93 9:30	388	238	
3/20/93 13:00	388	239	
3/21/93 9:30	389	213	
3/22/93 9:30	390	217	
3/22/93 15:00	390	229	
3/23/93 11:00	391	232	
3/23/93 11:00	391	235	
3/23/93 15:00	391	239	
3/24/93 7:00	392	228	
3/24/93 16:00	392	235	
3/25/93 9:30	393	252	

DATES

DAYS

VOC IN (PPM)

VOCINFLU.XLS

3/25/93 9:30	393	257
3/25/93 13:30	393	243
3/26/93 9:00	394	190
3/26/93 13:00	394	244
3/27/93 11:00	395	232
3/28/93 9:00	396	232
3/28/93 9:00	396	229
3/28/93 13:00	396	295
3/29/93 10:00	397	222
3/29/93 18:33	397	212
3/30/93 9:00	398	286
3/30/93 17:00	398	268
3/31/93 10:30	399	269
3/31/93 13:00	399	255
4/1/93 10:00	400	252
4/1/93 13:00	400	253
4/2/93 10:30	401	251
4/2/93 14:00	401	254
4/2/93 14:00	401	253
4/3/93 13:00	402	274
4/4/93 14:00	403	285
4/5/93 11:00	404	247
4/5/93 16:00	404	239
4/6/93 11:30	405	247
4/6/93 13:30	405	286
4/7/93 10:00	406	269
4/7/93 13:00	406	254
4/8/93 10:00	407	272
4/8/93 17:30	407	248
4/8/93 17:30	407	265
4/9/93 13:15	408	231
4/9/93 16:00	408	254
4/10/93 12:00	409	267
4/11/93 10:30	410	218
4/11/93 20:00	410	259
4/12/93 10:08	411	254
4/12/93 10:08	411	259
4/12/93 12:15	411	274
4/13/93 11:00	412	254
4/13/93 15:30	412	255
4/14/93 11:00	413	258
4/14/93 14:00	413	255
4/15/93 10:00	414	248
4/15/93 17:00	414	247
4/16/93 10:30	415	231
4/16/93 16:30	415	261
4/17/93 11:00	416	245
4/17/93 13:00	416	266
4/18/93 12:00	417	258
4/18/93 12:00	417	253
4/19/93 7:30	418	216
4/19/93 14:30	418	248

DATES	DAYS	VOC IN (PPM)	VOCINFLU.XLS
4/20/93 10:30	419	260	
4/20/93 13:00	419	278	
4/21/93 11:00	420	246	
4/21/93 15:00	420	251	
4/21/93 15:00	420	264	
4/22/93 11:30	421	275	
4/24/93 12:00	423	153	
4/25/93 18:45	424	280	
4/25/93 7:38	#VALUE!	172	
4/25/93 18:45	424	0	
4/25/93 18:45	424	280	
4/26/93 9:08	425	176	
4/26/93 13:18	425	160	
4/27/93 7:45	426	268	
4/27/93 7:45	426	274	
4/27/93 19:15	426	333	
4/28/93 9:13	427	273	
4/28/93 12:10	427	327	
4/29/93 8:15	428	319	
4/29/93 16:08	428	217	
4/29/93 16:08	428	218	
4/30/93 9:12	429	197	
4/30/93 17:26	429	191	

DATES

DAYS

VC EFFL (PPM)

VCEFFLU.XLS

WSRC DATA & CHART

FILE NAME:

VCEFFLU.XLS

VC EFFLUENT CONCENTRATIONS

DATES	DAYS	VC EFFLU (PPM)
2/26/92 10:47		0 BDL
2/26/92 10:51		0 BDL
2/26/92 11:26		0 BDL
2/26/92 12:28		0 BDL
2/26/92 13:26		0 BDL
2/26/92 15:25		0 BDL
2/26/92 19:50		0 BDL
2/26/92 20:30		0 BDL
2/26/92 23:20		1 BDL
2/27/92 3:23		1 BDL
2/27/92 7:23		1 BDL
2/27/92 11:22		1 BDL
2/27/92 15:26		1 BDL
2/27/92 17:20		1 BDL
2/27/92 18:10		1 BDL
2/28/92 6:20		2 BDL
2/28/92 12:15		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:10		3 BDL
2/29/92 19:15		3 BDL
3/1/92 3:05		4 BDL
3/1/92 15:00		4 BDL
3/2/92 7:50		5 BDL
3/2/92 19:05		5 BDL
3/5/92 23:48		9 BDL
3/6/92 2:50		9 BDL
3/6/92 10:50		9 BDL
3/7/92 7:50		10 BDL
3/8/92 7:50		11 BDL
3/9/92 7:50		12 BDL
3/10/92 7:50		13 BDL
3/10/92 10:00		13 BDL
3/11/92 7:45		14 BDL
3/12/92 7:45		15 BDL
3/13/92 7:50		16 BDL
3/14/92 7:50		17 BDL
3/15/92 7:35		18 BDL
3/16/92 7:40		19 BDL
3/16/92 7:40		19 BDL
3/17/92 7:55		20 BDL
3/18/92 7:50		21 BDL
3/19/92 7:45		22 BDL
3/20/92 8:05		23 BDL
3/21/92 7:50		24 BDL
3/21/92 7:50		24 BDL

DATES	DAYS	VC EFFL (PPM)	VCEFFLU.XLS
3/22/92 7:40	25	BDL	
3/23/92 7:50	26	BDL	
3/24/92 8:05	27	BDL	
3/25/92 8:05	28	BDL	
3/26/92 7:05	29	BDL	
3/27/92 8:05	30	BDL	
3/28/92 7:00	31	BDL	
3/29/92 6:55	32	BDL	
4/2/92 15:05	36	BDL	
4/2/92 17:05	36	BDL	
4/3/92 8:05	37	BDL	
4/4/92 6:50	38	BDL	
4/5/92 8:05	39	BDL	
4/6/92 9:05	40	BDL	
4/7/92 9:05	41	BDL	
4/8/92 9:00	42	BDL	
4/9/92 7:05	43	BDL	
4/10/92 7:05	44	BDL	
4/11/92 7:05	45	BDL	
4/12/92 7:05	46	BDL	
4/13/92 8:05	47	BDL	
4/14/92 8:05	48	BDL	
4/15/92 8:05	49	BDL	
4/16/92 7:05	50	BDL	
4/17/92 8:05	51	BDL	
4/18/92 7:05	52	BDL	
4/19/92 7:05	53	BDL	
4/20/92 7:05	54	BDL	
4/21/92 9:05	55	BDL	
4/22/92 8:05	56	BDL	
4/23/92 9:05	57	BDL	
4/23/92 16:05	57	BDL	
4/24/92 9:05	58	BDL	
4/26/92 8:05	60	BDL	
4/27/92 8:05	61	BDL	
4/28/92 8:05	62	BDL	
4/28/92 8:05	62	BDL	
4/29/92 8:05	63	BDL	
4/30/92 8:05	64	BDL	
5/1/92 8:05	65	BDL	
5/2/92 8:05	66	BDL	
5/3/92 8:05	67	BDL	
5/4/92 8:00	68	BDL	
5/5/92 8:05	69	BDL	
5/6/92 8:05	70	BDL	
5/7/92 7:05	71	BDL	
5/8/92 7:05	72	BDL	
5/9/92 8:05	73	BDL	
5/10/92 8:05	74	BDL	
5/11/92 8:05	75	BDL	
5/12/92 8:05	76	BDL	
5/13/92 8:05	77	BDL	

DATES

DAYS

VC EFFL (PPM)

VCEFFLU.XLS

5/14/92 7:05	78 BDL	
5/15/92 7:05	79 BDL	
5/16/92 10:05	80 BDL	
5/17/92 8:05	81 BDL	
5/18/92 17:10	82 BDL	
5/19/92 8:05	83 BDL	
5/20/92 8:05	84 BDL	
5/20/92 8:05	84 BDL	
5/21/92 7:55	85	8
5/22/92 7:05	86	7
5/23/92 8:05	87	7
5/24/92 8:05	88	7
5/25/92 8:05	89	7
5/26/92 8:05	90	7
5/27/92 8:05	91	7
5/28/92 8:05	92	7
5/28/92 8:05	92	7
5/29/92 6:10	93 BDL	
5/30/92 8:05	94 BDL	
5/31/92 10:05	95 BDL	
6/1/92 8:05	96 BDL	
6/2/92 8:05	97 BDL	
6/2/92 8:05	97 BDL	
6/3/92 8:05	98 BDL	
6/4/92 8:05	99 BDL	
6/5/92 8:05	100 BDL	
6/6/92 16:05	101 BDL	
6/7/92 11:05	102 BDL	
6/8/92 8:05	103 BDL	
6/10/92 8:05	105 BDL	
6/11/92 8:05	106 BDL	
6/11/92 8:05	106 BDL	
6/12/92 8:00	107	9
6/13/92 12:00	108	8
6/14/92 13:00	109	8
6/16/92 8:05	111	8
6/17/92 8:00	112	
6/17/92 8:05	112	8
6/18/92 8:00	113	
6/18/92 8:05	113	8
6/19/92 9:21	114	1.3
6/23/92 8:30	118 BDL	
6/24/92 8:00	119	8
6/25/92 8:00	120 BDL	
6/26/92 8:30	121 BDL	
6/27/92 11:30	122 BDL	
6/28/92 11:30	123 BDL	
6/29/92 7:35	124 BDL	
6/30/92 9:05	125 BDL	
7/1/92 9:35	126 BDL	
7/2/92 8:05	127 BDL	
7/3/92 8:05	128 BDL	

DATES	DAYS	VC EFFL (PPM)	VCEFFLU.XLS
7/4/92 11:05	129	BDL	
7/5/92 11:05	130	BDL	
7/6/92 9:05	131	BDL	
7/7/92 9:35	132	BDL	
7/8/92 8:05	133	7	
7/9/92 9:05	134	8	
7/10/92 10:05	135	7	
7/11/92 9:35	136	8	
7/11/92 9:35	136	8	
7/12/92 10:24	137	8	
7/13/92 8:43	138	BDL	
7/14/92 8:43	139	8	
7/15/92 8:15	140	8	
7/15/92 8:15	140	8	
7/16/92 8:14	141	7	
7/17/92 9:50	142	7	
7/18/92 8:10	143	7	
7/19/92 8:10	144	7	
7/20/92 7:51	145	8	
7/20/92 7:51	145	8	
7/21/92 9:15	146	7	
7/22/92 8:44	147	8	
7/23/92 8:07	148	8	
7/24/92 7:55	149	BDL	
7/25/92 8:15	150	BDL	
7/26/92 9:34	151	BDL	
7/27/92 8:05	152	BDL	
7/28/92 10:05	153	BDL	
7/29/92 9:05	154	7	
7/30/92 7:05	155	BDL	
7/30/92 7:05	155	BDL	
7/31/92 9:05	156	BDL	
8/6/92 8:05	162	BDL	
8/7/92 8:25	163	BDL	
8/8/92 9:35	164	BDL	
8/9/92 8:05	165	BDL	
8/10/92 7:40	166	BDL	
8/11/92 8:05	167	BDL	
8/12/92 7:55	168	BDL	
8/13/92 8:25	169	BDL	
8/14/92 8:20	170	BDL	
8/15/92 8:25	171	BDL	
8/16/92 8:20	172	BDL	
8/20/92 17:05	176	BDL	
8/20/92 17:05	176	BDL	
8/21/92 8:05	177	BDL	
8/22/92 9:35	178	BDL	
8/23/92 10:05	179	BDL	
8/24/92 8:21	180	BDL	
8/24/92 8:21	180	BDL	
8/25/92 9:00	181	BDL	
8/26/92 8:35	182	BDL	

DATES	DAYS	VC EFFL (PPM)	VCEFFLU.XLS
8/27/92 8:05	183	BDL	
8/28/92 8:35	184	BDL	
8/29/92 9:05	185	BDL	
8/30/92 9:05	186	BDL	
9/1/92 21:30	188	BDL	
9/2/91 9:36	-177	BDL	
9/3/92 8:05	190	BDL	
9/4/92 8:35	191	BDL	
9/5/92 13:05	192	BDL	
9/6/92 10:00	193	BDL	
9/7/92 10:05	194	BDL	
9/8/92 9:00	195	BDL	
9/9/92 9:00	196	BDL	
9/10/92 8:05	197	BDL	
9/11/92 8:05	198	BDL	
9/12/92 9:05	199	BDL	
9/14/92 9:05	201	BDL	
9/14/92 9:05	201	BDL	
9/15/92 9:05	202	BDL	
9/16/92 9:45	203	BDL	
9/17/92 8:35	204	BDL	
9/18/92 9:05	205	BDL	
9/18/92 9:05	205	BDL	
9/19/92 9:05	206	BDL	
9/20/90 10:35	-524	BDL	
9/21/92 10:05	208	BDL	
9/22/92 8:35	209	BDL	
9/23/92 8:35	210	BDL	
9/24/92 8:20	211	BDL	
9/27/92 8:35	214	BDL	
9/28/92 8:05	215	BDL	
9/29/92 8:35	216	BDL	
10/1/92 9:35	218	BDL	
10/2/92 8:35	219	12	
10/3/92 9:35	220	11	
10/4/92 8:30	221	11	
10/5/92 8:35	222	11	
10/6/92 9:05	223	BDL	
10/7/92 9:05	224	BDL	
10/8/92 9:35	225	BDL	
10/9/92 9:05	226	BDL	
10/10/92 10:35	227	BDL	
10/11/92 9:35	228	BDL	
10/15/92 10:05	232	BDL	
10/16/92 9:05	233	BDL	
10/17/92 9:27	234	BDL	
10/18/92 9:35	235	BDL	
10/19/92 9:35	236	BDL	
10/20/92 9:35	237	BDL	
10/21/92 9:35	238	BDL	
10/22/92 9:05	239	BDL	
10/23/92 9:35	240	BDL	

DATES	DAYS	VC EFFL (PPM)	VCEFFLU.XLS
10/24/92 10:35	241	BDL	
10/25/92 9:09	242	BDL	
10/26/92 9:05	243	BDL	
10/27/92 9:05	244	BDL	
10/27/92 9:05	244	BDL	
10/28/92 9:09	245	BDL	
10/29/92 9:05	246	BDL	
10/30/92 10:32	247	BDL	
10/31/92 11:05	248	BDL	
11/1/92 14:05	249	BDL	
11/2/92 10:05	250	BDL	
11/3/92 9:35	251	BDL	
11/4/92 9:36	252	BDL	
11/5/92 9:35	253	BDL	
11/6/92 9:35	254	BDL	
11/7/92 9:35	255	BDL	
11/8/92 10:33	256	BDL	
11/9/92 9:35	257	BDL	
11/10/92 10:05	258	BDL	
11/11/92 19:34	259	BDL	
11/12/92 9:35	260	BDL	
11/13/92 9:35	261	BDL	
11/14/92 15:05	262	BDL	
11/15/92 13:05	263	BDL	
11/16/92 9:35	264	BDL	
11/17/92 10:05	265	BDL	
11/18/92 9:05	266	BDL	
11/19/92 9:05	267	BDL	
11/20/92 10:05	268	BDL	
11/21/92 12:05	269	BDL	
11/22/92 12:05	270	BDL	
11/23/92 9:35	271	BDL	
11/24/92 9:35	272	BDL	
11/25/92 9:33	273	BDL	
12/14/92 10:03	292	*BDL	
12/15/92 9:33	293	*BDL	
12/15/92 9:33	293	*BDL	
12/16/92 9:05	294	*BDL	
12/17/92 9:03	295	*BDL	
12/18/92 9:33	296	*BDL	
12/19/92 17:33	297	*BDL	
12/20/92 10:35	298	*BDL	
12/21/92 10:05	299	*BDL	
12/22/92 10:05	300	*BDL	
12/23/92 9:05	301	*BDL	
12/23/92 9:05	301	*BDL	
12/28/92 16:35	306	BDL	
12/29/92 11:03	307	BDL	
12/30/92 10:05	308	BDL	
12/31/92 11:05	309	BDL	
1/2/93 12:03	311	*5	
1/3/93 15:03	312	BDL	

DATES	DAYS	VC EFFL (PPM)	VCEFFLU.XLS
1/4/93 10:33	313	BDL	
1/5/93 9:35	314	BDL	
1/6/93 9:35	315	BDL	
1/7/93 10:03	316	BDL	
1/8/93 9:35	317	BDL	
1/8/93 9:35	317	BDL	
1/9/93 12:03	318	BDL	
1/10/93 14:35	319	BDL	
1/11/93 11:05	320	BDL	
1/12/93 11:35	321	BDL	
1/13/93 8:33	322	BDL	
1/14/93 10:35	323	BDL	
1/15/93 10:35	324	BDL	
1/26/93 16:03	335	16	
1/27/93 10:33	336	15	
1/28/93 9:33	337	14	
1/29/93 8:35	338	18	
1/31/93 11:03	340	14	
2/1/93 10:33	341	BDL	
2/2/93 9:17	342	BDL	
2/3/93 9:35	343	BDL	
2/4/93 10:03	344	BDL	
2/5/93 10:03	345	BDL	
2/7/93 15:03	347	BDL	
2/8/93 10:33	348	BDL	
2/9/93 10:33	349	BDL	
2/10/93 13:05	350	BDL	
2/11/93 9:03	351	BDL	
2/12/93 10:03	352	BDL	
2/13/93 11:33	353	BDL	
2/14/93 19:03	354	BDL	
2/15/93 9:03	355	BDL	
2/16/93 9:05	356	BDL	
2/17/93 9:05	357	BDL	
2/18/93 10:05	358	BDL	
2/18/93 10:05	358	BDL	
2/19/93 9:35	359	BDL	
2/24/93 11:05	364	BDL	
2/25/93 9:33	365	BDL	
2/26/93 9:35	366	BDL	
2/27/93 13:03	367	BDL	
2/28/93 10:05	368	BDL	
3/1/93 10:05	369	BDL	
3/2/93 8:35	370	BDL	
3/3/93 10:05	371	BDL	
3/3/93 10:05	371	BDL	
3/4/93 10:05	372	BDL	
3/5/93 9:35	373	BDL	
3/6/93 10:03	374	BDL	
3/7/93 13:03	375	BDL	
3/8/93 10:35	376	BDL	
3/9/93 10:05	377	BDL	

DATES	DAYS	VC EFFL (PPM)	VCEFFLU.XLS
3/10/93 9:33	378	BDL	
3/11/93 8:03	379	BDL	
3/12/93 10:05	380	BDL	
3/13/93 13:03	381	BDL	
3/14/93 15:03	382	BDL	
3/14/93 15:03	382	BDL	
3/15/93 14:05	383	BDL	
3/16/93 9:33	384	BDL	
3/17/93 9:03	385	BDL	
3/18/93 9:03	386	BDL	
3/18/93 9:03	386	BDL	
3/19/93 10:33	387	BDL	
3/20/93 9:33	388	BDL	
3/21/93 9:33	389	BDL	
3/22/93 9:33	390	BDL	
3/23/93 11:03	391	BDL	
3/24/93 7:05	392	BDL	
3/25/93 9:33	393	BDL	
3/26/93 9:03	394	BDL	
3/27/93 11:03	395	BDL	
3/28/93 9:03	396	BDL	
3/29/93 10:05	397	BDL	
3/30/93 9:03	398	BDL	
3/31/93 10:33	399	BDL	
3/31/93 10:33	399	BDL	
4/1/93 10:05	400	BDL	
4/2/93 10:33	401	BDL	
4/3/93 13:03	402	BDL	
4/4/93 14:03	403	BDL	
4/12/93 10:11	411	BDL	
4/13/93 11:03	412	BDL	
4/14/93 11:05	413	BDL	
4/15/93 10:03	414	BDL	
4/15/93 10:03	414	BDL	
4/16/93 10:33	415	BDL	
4/17/93 11:03	416	BDL	
4/18/93 12:05	417	BDL	
4/19/93 7:33	418	BDL	
4/20/93 10:33	419	BDL	
4/21/93 11:03	420	BDL	
4/22/93 11:33	421	BDL	
4/24/93 12:10	423	BDL	
4/25/93 7:42	424	BDL	
	#VALUE!		
	#VALUE!		
	#VALUE!		
	#VALUE!		

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

WSRC DATA & CHART

FILE NAME:

DCMEFFLU.XLS

DCM EFFLUENT CONCENTRATIONS

DATES	DAYS	DCM (PPM)
2/26/92 10:47		0 BDL
2/26/92 10:51		0 BDL
2/26/92 11:26		0 BDL
2/26/92 12:28		0 BDL
2/26/92 13:26		0 BDL
2/26/92 15:25		0 BDL
2/26/92 19:50		0 BDL
2/26/92 20:30		0 BDL
2/26/92 23:20		1 BDL
2/27/92 3:23		1 BDL
2/27/92 7:23		1 BDL
2/27/92 11:22		1 BDL
2/27/92 15:26		1 BDL
2/27/92 17:20		1 BDL
2/27/92 18:10		1 BDL
2/28/92 6:20		2 BDL
2/28/92 12:15		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:10		3 BDL
2/29/92 19:15		3 BDL
3/1/92 3:05		4 BDL
3/1/92 15:00		4 BDL
3/2/92 7:50		5 BDL
3/2/92 19:05		5 BDL
3/5/92 23:48		9 BDL
3/6/92 2:50		9 BDL
3/6/92 10:50		9 BDL
3/7/92 7:50		10 BDL
3/8/92 7:50		11 BDL
3/9/92 7:50		12 BDL
3/10/92 7:50		13 BDL
3/10/92 10:00		13 BDL
3/11/92 7:45		14 BDL
3/12/92 7:45		15 BDL
3/13/92 7:50		16 BDL
3/14/92 7:50		17 BDL
3/15/92 7:35		18 BDL
3/16/92 7:40		19 BDL
3/16/92 7:40		19 BDL
3/17/92 7:55		20 BDL
3/18/92 7:50		21 BDL
3/19/92 7:45		22 BDL
3/20/92 8:05		23 BDL
3/21/92 7:50		24 BDL
3/21/92 7:50		24 BDL

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

3/22/92 7:40	25 BDL
3/23/92 7:50	26 BDL
3/24/92 8:05	27 BDL
3/25/92 8:05	28 BDL
3/26/92 7:05	29 BDL
3/27/92 8:05	30 BDL
3/28/92 7:00	31 BDL
3/29/92 6:55	32 BDL
4/2/92 15:05	36 BDL
4/2/92 17:05	36 BDL
4/3/92 8:05	37 BDL
4/4/92 6:50	38 BDL
4/5/92 8:05	39 BDL
4/6/92 9:05	40 BDL
4/7/92 9:05	41 BDL
4/8/92 9:00	42 BDL
4/9/92 7:05	43 BDL
4/10/92 7:05	44 BDL
4/11/92 7:05	45 BDL
4/12/92 7:05	46 BDL
4/13/92 8:05	47 BDL
4/14/92 8:05	48 BDL
4/15/92 8:05	49 BDL
4/16/92 7:05	50 BDL
4/17/92 8:05	51 BDL
4/18/92 7:05	52 BDL
4/19/92 7:05	53 BDL
4/20/92 7:05	54 BDL
4/21/92 9:05	55 BDL
4/22/92 8:05	56 BDL
4/23/92 9:05	57 BDL
4/23/92 16:05	57 BDL
4/24/92 9:05	58 BDL
4/26/92 8:05	60 BDL
4/27/92 8:05	61 BDL
4/28/92 8:05	62 BDL
4/28/92 8:05	62 BDL
4/29/92 8:05	63 BDL
4/30/92 8:05	64 BDL
5/1/92 8:05	65 BDL
5/2/92 8:05	66 BDL
5/3/92 8:05	67 BDL
5/4/92 8:00	68 BDL
5/5/92 8:05	69 BDL
5/6/92 8:05	70 BDL
5/7/92 7:05	71 BDL
5/8/92 7:05	72 BDL
5/9/92 8:05	73 BDL
5/10/92 8:05	74 BDL
5/11/92 8:05	75 BDL
5/12/92 8:05	76 BDL
5/13/92 8:05	77 BDL

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

5/14/92 7:05	78 BDL
5/15/92 7:05	79 BDL
5/16/92 10:05	80 BDL
5/17/92 8:05	81 BDL
5/18/92 17:10	82 BDL
5/19/92 8:05	83 BDL
5/20/92 8:05	84 BDL
5/20/92 8:05	84 BDL
5/21/92 7:55	85 BDL
5/22/92 7:05	86 BDL
5/23/92 8:05	87 BDL
5/24/92 8:05	88 BDL
5/25/92 8:05	89 BDL
5/26/92 8:05	90 BDL
5/27/92 8:05	91 BDL
5/28/92 8:05	92 BDL
5/28/92 8:05	92 BDL
5/29/92 6:10	93 BDL
5/30/92 8:05	94 BDL
5/31/92 10:05	95 BDL
6/1/92 8:05	96 BDL
6/2/92 8:05	97 BDL
6/2/92 8:05	97 BDL
6/3/92 8:05	98 BDL
6/4/92 8:05	99 BDL
6/5/92 8:05	100 BDL
6/6/92 16:05	101 BDL
6/7/92 11:05	102 BDL
6/8/92 8:05	103 BDL
6/10/92 8:05	105 BDL
6/11/92 8:05	106 BDL
6/11/92 8:05	106 BDL
6/12/92 8:00	107 BDL
6/13/92 12:00	108 BDL
6/14/92 13:00	109 BDL
6/16/92 8:05	111 BDL
6/17/92 8:00	112
6/17/92 8:05	112 BDL
6/18/92 8:00	113
6/18/92 8:05	113 BDL
6/19/92 9:21	114 BDL
6/23/92 8:30	118 BDL
6/24/92 8:00	119 BDL
6/25/92 8:00	120 BDL
6/26/92 8:30	121 BDL
6/27/92 11:30	122 BDL
6/28/92 11:30	123 BDL
6/29/92 7:35	124 BDL
6/30/92 9:05	125 BDL
7/1/92 9:35	126 BDL
7/2/92 8:05	127 BDL
7/3/92 8:05	128 BDL

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

7/4/92 11:05	129 BDL
7/5/92 11:05	130 BDL
7/6/92 9:05	131 BDL
7/7/92 9:35	132 BDL
7/8/92 8:05	133 BDL
7/9/92 9:05	134 BDL
7/10/92 10:05	135 BDL
7/11/92 9:35	136 BDL
7/11/92 9:35	136 BDL
7/12/92 10:24	137 BDL
7/13/92 8:43	138 BDL
7/14/92 8:43	139 BDL
7/15/92 8:15	140 BDL
7/15/92 8:15	140 BDL
7/16/92 8:14	141 BDL
7/17/92 9:50	142 BDL
7/18/92 8:10	143 BDL
7/19/92 8:10	144 BDL
7/20/92 7:51	145 BDL
7/20/92 7:51	145 BDL
7/21/92 9:15	146 BDL
7/22/92 8:44	147 BDL
7/23/92 8:07	148 BDL
7/24/92 7:55	149 BDL
7/25/92 8:15	150 BDL
7/26/92 9:34	151 BDL
7/27/92 8:05	152 BDL
7/28/92 10:05	153 BDL
7/29/92 9:05	154 BDL
7/30/92 7:05	155 BDL
7/30/92 7:05	155 BDL
7/31/92 9:05	156 BDL
8/6/92 8:05	162 BDL
8/7/92 8:25	163 BDL
8/8/92 9:35	164 BDL
8/9/92 8:05	165 BDL
8/10/92 7:40	166 BDL
8/11/92 8:05	167 BDL
8/12/92 7:55	168 BDL
8/13/92 8:25	169 BDL
8/14/92 8:20	170 BDL
8/15/92 8:25	171 BDL
8/16/92 8:20	172 BDL
8/20/92 17:05	176 BDL
8/20/92 17:05	176 BDL
8/21/92 8:05	177 BDL
8/22/92 9:35	178 BDL
8/23/92 10:05	179 BDL
8/24/92 8:21	180 BDL
8/24/92 8:21	180 BDL
8/25/92 9:00	181 BDL
8/26/92 8:35	182 BDL

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

8/27/92 8:05	183 BDL
8/28/92 8:35	184 BDL
8/29/92 9:05	185 BDL
8/30/92 9:05	186 BDL
9/1/92 21:30	188 BDL
9/2/91 9:36	-177 BDL
9/3/92 8:05	190 BDL
9/4/92 8:35	191 BDL
9/5/92 13:05	192 BDL
9/6/92 10:00	193 BDL
9/7/92 10:05	194 BDL
9/8/92 9:00	195 BDL
9/9/92 9:00	196 BDL
9/10/92 8:05	197 BDL
9/11/92 8:05	198 BDL
9/12/92 9:05	199 BDL
9/14/92 9:05	201 BDL
9/14/92 9:05	201 BDL
9/15/92 9:05	202 BDL
9/16/92 9:45	203 BDL
9/17/92 8:35	204 BDL
9/18/92 9:05	205 BDL
9/18/92 9:05	205 BDL
9/19/92 9:05	206 BDL
9/20/90 10:35	-524 BDL
9/21/92 10:05	208 BDL
9/22/92 8:35	209 BDL
9/23/92 8:35	210 BDL
9/24/92 8:20	211 BDL
9/27/92 8:35	214 BDL
9/28/92 8:05	215 BDL
9/29/92 8:35	216 BDL
10/1/92 9:35	218 BDL
10/2/92 8:35	219 BDL
10/3/92 9:35	220 BDL
10/4/92 8:30	221 BDL
10/5/92 8:35	222 BDL
10/6/92 9:05	223 BDL
10/7/92 9:05	224 BDL
10/8/92 9:35	225 BDL
10/9/92 9:05	226 BDL
10/10/92 10:35	227 BDL
10/11/92 9:35	228 BDL
10/15/92 10:05	232 BDL
10/16/92 9:05	233 BDL
10/17/92 9:27	234 BDL
10/18/92 9:35	235 BDL
10/19/92 9:35	236 BDL
10/20/92 9:35	237 BDL
10/21/92 9:35	238 BDL
10/22/92 9:05	239 BDL
10/23/92 9:35	240 BDL

DATES	DAYS8/27/93CM EFFL (PPM)	DCMEFFLU.XLS
10/24/92 10:35	241 BDL	
10/25/92 9:09	242 BDL	
10/26/92 9:05	243 BDL	
10/27/92 9:05	244 BDL	
10/27/92 9:05	244 BDL	
10/28/92 9:09	245 BDL	
10/29/92 9:05	246 BDL	
10/30/92 10:32	247 BDL	
10/31/92 11:05	248 BDL	
11/1/92 14:05	249 BDL	
11/2/92 10:05	250 BDL	
11/3/92 9:35	251 BDL	
11/4/92 9:36	252 BDL	
11/5/92 9:35	253 BDL	
11/6/92 9:35	254 BDL	
11/7/92 9:35	255 BDL	
11/8/92 10:33	256 BDL	
11/9/92 9:35	257 BDL	
11/10/92 10:05	258 BDL	
11/11/92 19:34	259 BDL	
11/12/92 9:35	260 BDL	
11/13/92 9:35	261 BDL	
11/14/92 15:05	262 BDL	
11/15/92 13:05	263 BDL	
11/16/92 9:35	264 BDL	
11/17/92 10:05	265 BDL	
11/18/92 9:05	266 BDL	
11/19/92 9:05	267 BDL	
11/20/92 10:05	268 BDL	
11/21/92 12:05	269 BDL	
11/22/92 12:05	270 BDL	
11/23/92 9:35	271 BDL	
11/24/92 9:35	272 BDL	
11/25/92 9:33	273 BDL	
12/14/92 10:03	292 BDL	
12/15/92 9:33	293 BDL	
12/15/92 9:33	293 BDL	
12/16/92 9:05	294 BDL	
12/17/92 9:03	295 BDL	
12/18/92 9:33	296 BDL	
12/19/92 17:33	297 BDL	
12/20/92 10:35	298 BDL	
12/21/92 10:05	299 BDL	
12/22/92 10:05	300 BDL	
12/23/92 9:05	301 BDL	
12/23/92 9:05	301 BDL	
12/28/92 16:35	306 BDL	
12/29/92 11:03	307 BDL	
12/30/92 10:05	308 BDL	
12/31/92 11:05	309 BDL	
1/2/93 12:03	311 BDL	
1/3/93 15:03	312 BDL	

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

1/4/93 10:33	313 BDL
1/5/93 9:35	314 BDL
1/6/93 9:35	315 BDL
1/7/93 10:03	316 BDL
1/8/93 9:35	317 BDL
1/8/93 9:35	317 BDL
1/9/93 12:03	318 BDL
1/10/93 14:35	319 BDL
1/11/93 11:05	320 BDL
1/12/93 11:35	321 BDL
1/13/93 8:33	322 BDL
1/14/93 10:35	323 BDL
1/15/93 10:35	324 BDL
1/26/93 16:03	335 BDL
1/27/93 10:33	336 BDL
1/28/93 9:33	337 BDL
1/29/93 8:35	338 BDL
1/31/93 11:03	340 BDL
2/1/93 10:33	341 BDL
2/2/93 9:17	342 BDL
2/3/93 9:35	343 BDL
2/4/93 10:03	344 BDL
2/5/93 10:03	345 BDL
2/7/93 15:03	347 BDL
2/8/93 10:33	348 BDL
2/9/93 10:33	349 BDL
2/10/93 13:05	350 BDL
2/11/93 9:03	351 BDL
2/12/93 10:03	352 BDL
2/13/93 11:33	353 BDL
2/14/93 19:03	354 BDL
2/15/93 9:03	355 BDL
2/16/93 9:05	356 BDL
2/17/93 9:05	357 BDL
2/18/93 10:05	358 BDL
2/18/93 10:05	358 BDL
2/19/93 9:35	359 BDL
2/24/93 11:05	364 BDL
2/25/93 9:33	365 BDL
2/26/93 9:35	366 BDL
2/27/93 13:03	367 BDL
2/28/93 10:05	368 BDL
3/1/93 10:05	369 BDL
3/2/93 8:35	370 BDL
3/3/93 10:05	371 BDL
3/3/93 10:05	371 BDL
3/4/93 10:05	372 BDL
3/5/93 9:35	373 BDL
3/6/93 10:03	374 BDL
3/7/93 13:03	375 BDL
3/8/93 10:35	376 BDL
3/9/93 10:05	377 BDL

DATES

DAYS8/27/93CM EFFL (PPM)

DCMEFFLU.XLS

3/10/93 9:33	378 BDL
3/11/93 8:03	379 BDL
3/12/93 10:05	380 BDL
3/13/93 13:03	381 BDL
3/14/93 15:03	382 BDL
3/14/93 15:03	382 BDL
3/15/93 14:05	383 BDL
3/16/93 9:33	384 BDL
3/17/93 9:03	385 BDL
3/18/93 9:03	386 BDL
3/18/93 9:03	386 BDL
3/19/93 10:33	387 BDL
3/20/93 9:33	388 BDL
3/21/93 9:33	389 BDL
3/22/93 9:33	390 BDL
3/23/93 11:03	391 BDL
3/24/93 7:05	392 BDL
3/25/93 9:33	393 BDL
3/26/93 9:03	394 BDL
3/27/93 11:03	395 BDL
3/28/93 9:03	396 BDL
3/29/93 10:05	397 BDL
3/30/93 9:03	398 BDL
3/31/93 10:33	399 BDL
3/31/93 10:33	399 BDL
4/1/93 10:05	400 BDL
4/2/93 10:33	401 BDL
4/3/93 13:03	402 BDL
4/4/93 14:03	403 BDL
4/12/93 10:11	411 BDL
4/13/93 11:03	412 BDL
4/14/93 11:05	413 BDL
4/15/93 10:03	414 BDL
4/15/93 10:03	414 BDL
4/16/93 10:33	415 BDL
4/17/93 11:03	416 BDL
4/18/93 12:05	417 BDL
4/19/93 7:33	418 BDL
4/20/93 10:33	419 BDL
4/21/93 11:03	420 BDL
4/22/93 11:33	421 BDL
4/24/93 12:10	423 BDL
4/25/93 7:42	424 BDL

DATES

DAYS8/27/93CE-t EFFL (PPM)

DCETEFFL.XLS

WSRC DATA & CHART

FILE NAME:

DCETEFFL.XLS

t-DCE EFFLUENT CONCENTRATIONS

DATES	DAYS	t-DCE EFFLU (PPM)
2/26/92 10:47		0 BDL
2/26/92 10:51		0 BDL
2/26/92 11:26		0 BDL
2/26/92 12:28		0 BDL
2/26/92 13:26		0 BDL
2/26/92 15:25		0 BDL
2/26/92 19:50		0 BDL
2/26/92 20:30		0 BDL
2/26/92 23:20		1 BDL
2/27/92 3:23		1 BDL
2/27/92 7:23		1 BDL
2/27/92 11:22		1 BDL
2/27/92 15:26		1 BDL
2/27/92 17:20		1 BDL
2/27/92 18:10		1 BDL
2/28/92 6:20		2 BDL
2/28/92 12:15		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:10		3 BDL
2/29/92 19:15		3 BDL
3/1/92 3:05		4 BDL
3/1/92 15:00		4 BDL
3/2/92 7:50		5 BDL
3/2/92 19:05		5 BDL
3/5/92 23:48		9 BDL
3/6/92 2:50		9 BDL
3/6/92 10:50		9 BDL
3/7/92 7:50		10 BDL
3/8/92 7:50		11 BDL
3/9/92 7:50		12 BDL
3/10/92 7:50		13 BDL
3/10/92 10:00		13 BDL
3/11/92 7:45		14 BDL
3/12/92 7:45		15 BDL
3/13/92 7:50		16 BDL
3/14/92 7:50		17 BDL
3/15/92 7:35		18 BDL
3/16/92 7:40		19 BDL
3/16/92 7:40		19 BDL
3/17/92 7:55		20 BDL
3/18/92 7:50		21 BDL
3/19/92 7:45		22 BDL
3/20/92 8:05		23 BDL
3/21/92 7:50		24 BDL
3/21/92 7:50		24 BDL

DATES

DAYS8/27/93CE-1 EFFL (PPM)

DCETEFFL.XLS

3/22/92 7:40	25 BDL
3/23/92 7:50	26 BDL
3/24/92 8:05	27 BDL
3/25/92 8:05	28 BDL
3/26/92 7:05	29 BDL
3/27/92 8:05	30 BDL
3/28/92 7:00	31 BDL
3/29/92 6:55	32 BDL
4/2/92 15:05	36 BDL
4/2/92 17:05	36 BDL
4/3/92 8:05	37 BDL
4/4/92 6:50	38 BDL
4/5/92 8:05	39 BDL
4/6/92 9:05	40 BDL
4/7/92 9:05	41 BDL
4/8/92 9:00	42 BDL
4/9/92 7:05	43 BDL
4/10/92 7:05	44 BDL
4/11/92 7:05	45 BDL
4/12/92 7:05	46 BDL
4/13/92 8:05	47 BDL
4/14/92 8:05	48 BDL
4/15/92 8:05	49 BDL
4/16/92 7:05	50 BDL
4/17/92 8:05	51 BDL
4/18/92 7:05	52 BDL
4/19/92 7:05	53 BDL
4/20/92 7:05	54 BDL
4/21/92 9:05	55 BDL
4/22/92 8:05	56 BDL
4/23/92 9:05	57 BDL
4/23/92 16:05	57 BDL
4/24/92 9:05	58 BDL
4/26/92 8:05	60 BDL
4/27/92 8:05	61 BDL
4/28/92 8:05	62 BDL
4/28/92 8:05	62 BDL
4/29/92 8:05	63 BDL
4/30/92 8:05	64 BDL
5/1/92 8:05	65 BDL
5/2/92 8:05	66 BDL
5/3/92 8:05	67 BDL
5/4/92 8:00	68 BDL
5/5/92 8:05	69 BDL
5/6/92 8:05	70 BDL
5/7/92 7:05	71 BDL
5/8/92 7:05	72 BDL
5/9/92 8:05	73 BDL
5/10/92 8:05	74 BDL
5/11/92 8:05	75 BDL
5/12/92 8:05	76 BDL
5/13/92 8:05	77 BDL

DATES

DAYS8/27/93CE-I EFFL (PPM)

DCETEFFL.XLS

5/14/92 7:05	78 BDL
5/15/92 7:05	79 BDL
5/16/92 10:05	80 BDL
5/17/92 8:05	81 BDL
5/18/92 17:10	82 BDL
5/19/92 8:05	83 BDL
5/20/92 8:05	84 BDL
5/20/92 8:05	84 BDL
5/21/92 7:55	85 BDL
5/22/92 7:05	86 BDL
5/23/92 8:05	87 BDL
5/24/92 8:05	88 BDL
5/25/92 8:05	89 BDL
5/26/92 8:05	90 BDL
5/27/92 8:05	91 BDL
5/28/92 8:05	92 BDL
5/28/92 8:05	92 BDL
5/29/92 6:10	93 BDL
5/30/92 8:05	94 BDL
5/31/92 10:05	95 BDL
6/1/92 8:05	96 BDL
6/2/92 8:05	97 BDL
6/2/92 8:05	97 BDL
6/3/92 8:05	98 BDL
6/4/92 8:05	99 BDL
6/5/92 8:05	100 BDL
6/6/92 16:05	101 BDL
6/7/92 11:05	102 BDL
6/8/92 8:05	103 BDL
6/10/92 8:05	105 BDL
6/11/92 8:05	106 BDL
6/11/92 8:05	106 BDL
6/12/92 8:00	107 BDL
6/13/92 12:00	108 BDL
6/14/92 13:00	109 BDL
6/16/92 8:05	111 BDL
6/17/92 8:00	112
6/17/92 8:05	112 BDL
6/18/92 8:00	113
6/18/92 8:05	113 BDL
6/19/92 9:21	114 BDL
6/23/92 8:30	118 BDL
6/24/92 8:00	119 BDL
6/25/92 8:00	120 BDL
6/26/92 8:30	121 BDL
6/27/92 11:30	122 BDL
6/28/92 11:30	123 BDL
6/29/92 7:35	124 BDL
6/30/92 9:05	125 BDL
7/1/92 9:35	126 BDL
7/2/92 8:05	127 BDL
7/3/92 8:05	128 BDL

DATES

DAYS8/27/93CE-t EFFL (PPM)

DCETEFFL.XLS

7/4/92 11:05	129 BDL
7/5/92 11:05	130 BDL
7/6/92 9:05	131 BDL
7/7/92 9:35	132 BDL
7/8/92 8:05	133 BDL
7/9/92 9:05	134 BDL
7/10/92 10:05	135 BDL
7/11/92 9:35	136 BDL
7/11/92 9:35	136 BDL
7/12/92 10:24	137 BDL
7/13/92 8:43	138 BDL
7/14/92 8:43	139 BDL
7/15/92 8:15	140 BDL
7/15/92 8:15	140 BDL
7/16/92 8:14	141 BDL
7/17/92 9:50	142 BDL
7/18/92 8:10	143 BDL
7/19/92 8:10	144 BDL
7/20/92 7:51	145 BDL
7/20/92 7:51	145 BDL
7/21/92 9:15	146 BDL
7/22/92 8:44	147 BDL
7/23/92 8:07	148 BDL
7/24/92 7:55	149 BDL
7/25/92 8:15	150 BDL
7/26/92 9:34	151 BDL
7/27/92 8:05	152 BDL
7/28/92 10:05	153 BDL
7/29/92 9:05	154 BDL
7/30/92 7:05	155 BDL
7/30/92 7:05	155 BDL
7/31/92 9:05	156 BDL
8/6/92 8:05	162 BDL
8/7/92 8:25	163 BDL
8/8/92 9:35	164 BDL
8/9/92 8:05	165 BDL
8/10/92 7:40	166 BDL
8/11/92 8:05	167 BDL
8/12/92 7:55	168 BDL
8/13/92 8:25	169 BDL
8/14/92 8:20	170 BDL
8/15/92 8:25	171 BDL
8/16/92 8:20	172 BDL
8/20/92 17:05	176 BDL
8/20/92 17:05	176 BDL
8/21/92 8:05	177 BDL
8/22/92 9:35	178 BDL
8/23/92 10:05	179 BDL
8/24/92 8:21	180 BDL
8/24/92 8:21	180 BDL
8/25/92 9:00	181 BDL
8/26/92 8:35	182 BDL

DATES

DAYS8/27/93CE-t EFFL (PPM)

DCETEFFL.XLS

8/27/92 8:05	183 BDL
8/28/92 8:35	184 BDL
8/29/92 9:05	185 BDL
8/30/92 9:05	186 BDL
9/1/92 21:30	188 BDL
9/2/92 9:35	-177 BDL
9/3/92 8:05	190 BDL
9/4/92 8:35	191 BDL
9/5/92 13:05	192 BDL
9/6/92 10:00	193 BDL
9/7/92 10:05	194 BDL
9/8/92 9:00	195 BDL
9/9/92 9:00	196 BDL
9/10/92 8:05	197 BDL
9/11/92 8:05	198 BDL
9/12/92 9:05	199 BDL
9/14/92 9:05	201 BDL
9/14/92 9:05	201 BDL
9/15/92 9:05	202 BDL
9/16/92 9:45	203 BDL
9/17/92 8:35	204 BDL
9/18/92 9:05	205 BDL
9/18/92 9:05	205 BDL
9/19/92 9:05	206 BDL
9/20/92 10:35	-524 BDL
9/21/92 10:05	208 BDL
9/22/92 8:35	209 BDL
9/23/92 8:35	210 BDL
9/24/92 8:20	211 BDL
9/27/92 8:35	214 BDL
9/28/92 8:05	215 BDL
9/29/92 8:35	216 BDL
10/1/92 9:35	218 BDL
10/2/92 8:35	219 BDL
10/3/92 9:35	220 BDL
10/4/92 8:30	221 BDL
10/5/92 8:35	222 BDL
10/6/92 9:05	223 BDL
10/7/92 9:05	224 BDL
10/8/92 9:35	225 BDL
10/9/92 9:05	226 BDL
10/10/92 10:35	227 BDL
10/11/92 9:35	228 BDL
10/15/92 10:05	232 BDL
10/16/92 9:05	233 BDL
10/17/92 9:27	234 BDL
10/18/92 9:35	235 BDL
10/19/92 9:35	236 BDL
10/20/92 9:35	237 BDL
10/21/92 9:35	238 BDL
10/22/92 9:05	239 BDL
10/23/92 9:35	240 BDL

DATES	DAYS8/27/93CE-I EFFL (PPM)	DCETEFL.XLS
10/24/92 10:35	241 BDL	
10/25/92 9:09	242 BDL	
10/26/92 9:05	243 BDL	
10/27/92 9:05	244 BDL	
10/27/92 9:05	244 BDL	
10/28/92 9:09	245 BDL	
10/29/92 9:05	246 BDL	
10/30/92 10:32	247 BDL	
10/31/92 11:05	248 BDL	
11/1/92 14:05	249 BDL	
11/2/92 10:05	250 BDL	
11/3/92 9:35	251 BDL	
11/4/92 9:36	252 BDL	
11/5/92 9:35	253 BDL	
11/6/92 9:35	254 BDL	
11/7/92 9:35	255 BDL	
11/8/92 10:33	256 BDL	
11/9/92 9:35	257 BDL	
11/10/92 10:05	258 BDL	
11/11/92 19:34	259 BDL	
11/12/92 9:35	260 BDL	
11/13/92 9:35	261 BDL	
11/14/92 15:05	262 BDL	
11/15/92 13:05	263 BDL	
11/16/92 9:35	264 BDL	
11/17/92 10:05	265 BDL	
11/18/92 9:05	266 BDL	
11/19/92 9:05	267 BDL	
11/20/92 10:05	268 BDL	
11/21/92 12:05	269 BDL	
11/22/92 12:05	270 BDL	
11/23/92 9:35	271 BDL	
11/24/92 9:35	272 BDL	
11/25/92 9:33	273 BDL	
12/14/92 10:03	292 BDL	
12/15/92 9:33	293 BDL	
12/15/92 9:33	293 BDL	
12/16/92 9:05	294 BDL	
12/17/92 9:03	295 BDL	
12/18/92 9:33	296 BDL	
12/19/92 17:33	297 BDL	
12/20/92 10:35	298 BDL	
12/21/92 10:05	299 BDL	
12/22/92 10:05	300 BDL	
12/23/92 9:05	301 BDL	
12/23/92 9:05	301 BDL	
12/28/92 16:35	306 BDL	
12/29/92 11:03	307	6
12/30/92 10:05	308 BDL	
12/31/92 11:05	309 BDL	
1/2/93 12:03	311 BDL	
1/3/93 15:03	312 BDL	

DATES

DAYS8/27/93CE-t EFFL (PPM)

DCETEFL.XLS

1/4/93 10:33	313 BDL
1/5/93 9:35	314 BDL
1/6/93 9:35	315 BDL
1/7/93 10:03	316 BDL
1/8/93 9:35	317 BDL
1/8/93 9:35	317 BDL
1/9/93 12:03	318 BDL
1/10/93 14:35	319 BDL
1/11/93 11:05	320 BDL
1/12/93 11:35	321 BDL
1/13/93 8:33	322 BDL
1/14/93 10:35	323 BDL
1/15/93 10:35	324 BDL
1/26/93 16:03	335 BDL
1/27/93 10:33	336 BDL
1/28/93 9:33	337 BDL
1/29/93 8:35	338 BDL
1/31/93 11:03	340 BDL
2/1/93 10:33	341 BDL
2/2/93 9:17	342 BDL
2/3/93 9:35	343 BDL
2/4/93 10:03	344 BDL
2/5/93 10:03	345 BDL
2/7/93 15:03	347 BDL
2/8/93 10:33	348 BDL
2/9/93 10:33	349 BDL
2/10/93 13:05	350 BDL
2/11/93 9:03	351 BDL
2/12/93 10:03	352 BDL
2/13/93 11:33	353 BDL
2/14/93 19:03	354 BDL
2/15/93 9:03	355 BDL
2/16/93 9:05	356 BDL
2/17/93 9:05	357 BDL
2/18/93 10:05	358 BDL
2/18/93 10:05	358 BDL
2/19/93 9:35	359 BDL
2/24/93 11:05	364 BDL
2/25/93 9:33	365 BDL
2/26/93 9:35	366 BDL
2/27/93 13:03	367 BDL
2/28/93 10:05	368 BDL
3/1/93 10:05	369 BDL
3/2/93 8:35	370 BDL
3/3/93 10:05	371 BDL
3/3/93 10:05	371 BDL
3/4/93 10:05	372 BDL
3/5/93 9:35	373 BDL
3/6/93 10:03	374 BDL
3/7/93 13:03	375 BDL
3/8/93 10:35	376 BDL
3/9/93 10:05	377 BDL

DATES

DAYS8/27/93CE-I EFFL (PPM)

DCETEFFL.XLS

3/10/93 9:33	378 BDL
3/11/93 8:03	379 BDL
3/12/93 10:05	380 BDL
3/13/93 13:03	381 BDL
3/14/93 15:03	382 BDL
3/14/93 15:03	382 BDL
3/15/93 14:05	383 BDL
3/16/93 9:33	384 BDL
3/17/93 9:03	385 BDL
3/18/93 9:03	386 BDL
3/18/93 9:03	386 BDL
3/19/93 10:33	387 BDL
3/20/93 9:33	388 BDL
3/21/93 9:33	389 BDL
3/22/93 9:33	390 BDL
3/23/93 11:03	391 BDL
3/24/93 7:05	392 BDL
3/25/93 9:33	393 BDL
3/26/93 9:03	394 BDL
3/27/93 11:03	395 BDL
3/28/93 9:03	396 BDL
3/29/93 10:05	397 BDL
3/30/93 9:03	398 BDL
3/31/93 10:33	399 BDL
3/31/93 10:33	399 BDL
4/1/93 10:05	400 BDL
4/2/93 10:33	401 BDL
4/3/93 13:03	402 BDL
4/4/93 14:03	403 BDL
4/12/93 10:11	411 BDL
4/13/93 11:03	412 BDL
4/14/93 11:05	413 BDL
4/15/93 10:03	414 BDL
4/15/93 10:03	414 BDL
4/16/93 10:33	415 BDL
4/17/93 11:03	416 BDL
4/18/93 12:05	417 BDL
4/19/93 7:33	418 BDL
4/20/93 10:33	419 BDL
4/21/93 11:03	420 BDL
4/22/93 11:33	421 BDL
4/24/93 12:10	423 BDL
4/25/93 7:42	424 BDL

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

WSRC DATA & CHART

FILE NAME:

DCECEFFL.XLS

c-DCE EFFLUENT CONCENTRATIONS

DATES	DAYS	DCE-c (PPM)
-------	------	-------------

2/26/92 10:47		0 BDL
2/26/92 10:51		0 BDL
2/26/92 11:26		0 BDL
2/26/92 12:28		0 BDL
2/26/92 13:26		0 BDL
2/26/92 15:25		0 BDL
2/26/92 19:50		0 BDL
2/28/92 20:30		0 BDL
2/26/92 23:20		1 BDL
2/27/92 3:23		1 BDL
2/27/92 7:23		1 BDL
2/27/92 11:22		1 BDL
2/27/92 15:26		1 BDL
2/27/92 17:20		1 BDL
2/27/92 18:10		1 BDL
2/28/92 6:20		2 BDL
2/28/92 12:15		2 BDL
2/28/92 18:20		2 BDL
2/29/92 7:10		3 BDL
2/29/92 19:15		3 BDL
3/1/92 3:05		4 BDL
3/1/92 15:00		4 BDL
3/2/92 7:50		5 BDL
3/2/92 19:05		5 BDL
3/5/92 23:48		9 BDL
3/6/92 2:50		9 BDL
3/6/92 10:50		9 BDL
3/7/92 7:50		10 BDL
3/8/92 7:50		11 BDL
3/9/92 7:50		12 BDL
3/10/92 7:50		13 BDL
3/10/92 10:00		13 BDL
3/11/92 7:45		14 BDL
3/12/92 7:45		15 BDL
3/13/92 7:50		16 BDL
3/14/92 7:50		17 BDL
3/15/92 7:35		18 BDL
3/16/92 7:40		19 BDL
3/16/92 7:40		19 BDL
3/17/92 7:55		20 BDL
3/18/92 7:50		21 BDL
3/19/92 7:45		22 BDL
3/20/92 8:05		23 BDL
3/21/92 7:50		24 BDL
3/21/92 7:50		24 BDL

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

3/22/92 7:40	25 BDL	
3/23/92 7:50	26 BDL	
3/24/92 8:05	27 BDL	
3/25/92 8:05	28 BDL	
3/26/92 7:05	29 BDL	
3/27/92 8:05	30 BDL	
3/28/92 7:00	31 BDL	
3/29/92 6:55	32 BDL	
4/2/92 15:05	36 BDL	
4/2/92 17:05	36 BDL	
4/3/92 8:05	37	12
4/4/92 6:50	38 BDL	
4/5/92 8:05	39 BDL	
4/6/92 9:05	40 BDL	
4/7/92 9:05	41 BDL	
4/8/92 9:00	42 BDL	
4/9/92 7:05	43 BDL	
4/10/92 7:05	44 BDL	
4/11/92 7:05	45 BDL	
4/12/92 7:05	46 BDL	
4/13/92 8:05	47 BDL	
4/14/92 8:05	48 BDL	
4/15/92 8:05	49 BDL	
4/16/92 7:05	50 BDL	
4/17/92 8:05	51 BDL	
4/18/92 7:05	52 BDL	
4/19/92 7:05	53 BDL	
4/20/92 7:05	54 BDL	
4/21/92 9:05	55 BDL	
4/22/92 8:05	56 BDL	
4/23/92 9:05	57 BDL	
4/23/92 16:05	57 BDL	
4/24/92 9:05	58 BDL	
4/26/92 8:05	60 BDL	
4/27/92 8:05	61 BDL	
4/28/92 8:05	62 BDL	
4/28/92 8:05	62 BDL	
4/29/92 8:05	63 BDL	
4/30/92 8:05	64 BDL	
5/1/92 8:05	65 BDL	
5/2/92 8:05	66 BDL	
5/3/92 8:05	67 BDL	
5/4/92 8:00	68 BDL	
5/5/92 8:05	69 BDL	
5/6/92 8:05	70 BDL	
5/7/92 7:05	71 BDL	
5/8/92 7:05	72 BDL	
5/9/92 8:05	73 BDL	
5/10/92 8:05	74 BDL	
5/11/92 8:05	75 BDL	
5/12/92 8:05	76 BDL	
5/13/92 8:05	77 BDL	

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

5/14/92 7:05	78 BDL
5/15/92 7:05	79 BDL
5/16/92 10:05	80 BDL
5/17/92 8:05	81 BDL
5/18/92 17:10	82 BDL
5/19/92 8:05	83 BDL
5/20/92 8:05	84 BDL
5/20/92 8:05	84 BDL
5/21/92 7:55	85 BDL
5/22/92 7:05	86 BDL
5/23/92 8:05	87 BDL
5/24/92 8:05	88 BDL
5/25/92 8:05	89 BDL
5/26/92 8:05	90 BDL
5/27/92 8:05	91 BDL
5/28/92 8:05	92 BDL
5/28/92 8:05	92 BDL
5/29/92 6:10	93 BDL
5/30/92 8:05	94 BDL
5/31/92 10:05	95 BDL
6/1/92 8:05	96 BDL
6/2/92 8:05	97 BDL
6/2/92 8:05	97 BDL
6/3/92 8:05	98 BDL
6/4/92 8:05	99 BDL
6/5/92 8:05	100 BDL
6/6/92 16:05	101 BDL
6/7/92 11:05	102 BDL
6/8/92 8:05	103 BDL
6/10/92 8:05	105 BDL
6/11/92 8:05	106 BDL
6/11/92 8:05	106 BDL
6/12/92 8:00	107 BDL
6/13/92 12:00	108 BDL
6/14/92 13:00	109 BDL
6/16/92 8:05	111 BDL
6/17/92 8:00	112
6/17/92 8:05	112 BDL
6/18/92 8:00	113
6/18/92 8:05	113 BDL
6/19/92 9:21	114 BDL
6/23/92 8:30	118 BDL
6/24/92 8:00	119 BDL
6/25/92 8:00	120 BDL
6/26/92 8:30	121 BDL
6/27/92 11:30	122 BDL
6/28/92 11:30	123 BDL
6/29/92 7:35	124 BDL
6/30/92 9:05	125 BDL
7/1/92 9:35	126 BDL
7/2/92 8:05	127 BDL
7/3/92 8:05	128 BDL

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

7/4/92 11:05	129 BDL
7/5/92 11:05	130 BDL
7/6/92 9:05	131 BDL
7/7/92 9:35	132 BDL
7/8/92 8:05	133 BDL
7/9/92 9:05	134 BDL
7/10/92 10:05	135 BDL
7/11/92 9:35	136 BDL
7/11/92 9:35	136 BDL
7/12/92 10:24	137 BDL
7/13/92 8:43	138 BDL
7/14/92 8:43	139 BDL
7/15/92 8:15	140 BDL
7/15/92 8:15	140 BDL
7/16/92 8:14	141 BDL
7/17/92 9:50	142 BDL
7/18/92 8:10	143 BDL
7/19/92 8:10	144 BDL
7/20/92 7:51	145 BDL
7/20/92 7:51	145 BDL
7/21/92 9:15	146 BDL
7/22/92 8:44	147 BDL
7/23/92 8:07	148 BDL
7/24/92 7:55	149 BDL
7/25/92 8:15	150 BDL
7/26/92 9:34	151 BDL
7/27/92 8:05	152 BDL
7/28/92 10:05	153 BDL
7/29/92 9:05	154 BDL
7/30/92 7:05	155 BDL
7/30/92 7:05	155 BDL
7/31/92 9:05	156 BDL
8/6/92 8:05	162 BDL
8/7/92 8:25	163 BDL
8/8/92 9:35	164 BDL
8/9/92 8:05	165 BDL
8/10/92 7:40	166 BDL
8/11/92 8:05	167 BDL
8/12/92 7:55	168 BDL
8/13/92 8:25	169 BDL
8/14/92 8:20	170 BDL
8/15/92 8:25	171 BDL
8/16/92 8:20	172 BDL
8/20/92 17:05	176 BDL
8/20/92 17:05	176 BDL
8/21/92 8:05	177 BDL
8/22/92 9:35	178 BDL
8/23/92 10:05	179 BDL
8/24/92 8:21	180 BDL
8/24/92 8:21	180 BDL
8/25/92 9:00	181 BDL
8/26/92 8:35	182 BDL

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

8/27/92 8:05	183 BDL
8/28/92 8:35	184 BDL
8/29/92 9:05	185 BDL
8/30/92 9:05	186 BDL
9/1/92 21:30	188 BDL
9/2/91 9:36	-177 BDL
9/3/92 8:05	190 BDL
9/4/92 8:35	191 BDL
9/5/92 13:05	192 BDL
9/6/92 10:00	193 BDL
9/7/92 10:05	194 BDL
9/8/92 9:00	195 BDL
9/9/92 9:00	196 BDL
9/10/92 8:05	197 BDL
9/11/92 8:05	198 BDL
9/12/92 9:05	199 BDL
9/14/92 9:05	201 BDL
9/14/92 9:05	201 BDL
9/15/92 9:05	202 BDL
9/16/92 9:45	203 BDL
9/17/92 8:35	204 BDL
9/18/92 9:05	205 BDL
9/18/92 9:05	205 BDL
9/19/92 9:05	206 BDL
9/20/90 10:35	-524 BDL
9/21/92 10:05	208 BDL
9/22/92 8:35	209 BDL
9/23/92 8:35	210 BDL
9/24/92 8:20	211 BDL
9/27/92 8:35	214 BDL
9/28/92 8:05	215 BDL
9/29/92 8:35	216 BDL
10/1/92 9:35	218 BDL
10/2/92 8:35	219 BDL
10/3/92 9:35	220 BDL
10/4/92 8:30	221 BDL
10/5/92 8:35	222 BDL
10/6/92 9:05	223 BDL
10/7/92 9:05	224 BDL
10/8/92 9:35	225 BDL
10/9/92 9:05	226 BDL
10/10/92 10:35	227 BDL
10/11/92 9:35	228 BDL
10/15/92 10:05	232 BDL
10/16/92 9:05	233 BDL
10/17/92 9:27	234 BDL
10/18/92 9:35	235 BDL
10/19/92 9:35	236 BDL
10/20/92 9:35	237 BDL
10/21/92 9:35	238 BDL
10/22/92 9:05	239 BDL
10/23/92 9:35	240 BDL

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

10/24/92 10:35	241 BDL
10/25/92 9:09	242 BDL
10/26/92 9:05	243 BDL
10/27/92 9:05	244 BDL
10/27/92 9:05	244 BDL
10/28/92 9:09	245 BDL
10/29/92 9:05	246 BDL
10/30/92 10:32	247 BDL
10/31/92 11:05	248 BDL
11/1/92 14:05	249 BDL
11/2/92 10:05	250 BDL
11/3/92 9:35	251 BDL
11/4/92 9:36	252 BDL
11/5/92 9:35	253 BDL
11/6/92 9:35	254 BDL
11/7/92 9:35	255 BDL
11/8/92 10:33	256 BDL
11/9/92 9:35	257 BDL
11/10/92 10:05	258 BDL
11/11/92 19:34	259 BDL
11/12/92 9:35	260 BDL
11/13/92 9:35	261 BDL
11/14/92 15:05	262 BDL
11/15/92 13:05	263 BDL
11/16/92 9:35	264 BDL
11/17/92 10:05	265 BDL
11/18/92 9:05	266 BDL
11/19/92 9:05	267 BDL
11/20/92 10:05	268 BDL
11/21/92 12:05	269 BDL
11/22/92 12:05	270 BDL
11/23/92 9:35	271 BDL
11/24/92 9:35	272 BDL
11/25/92 9:33	273 BDL
12/14/92 10:03	292 BDL
12/15/92 9:33	293 BDL
12/15/92 9:33	293 BDL
12/16/92 9:05	294 BDL
12/17/92 9:03	295 BDL
12/18/92 9:33	296 BDL
12/19/92 17:33	297 BDL
12/20/92 10:35	298 BDL
12/21/92 10:05	299 BDL
12/22/92 10:05	300 BDL
12/23/92 9:05	301 BDL
12/23/92 9:05	301 BDL
12/28/92 16:35	306 BDL
12/29/92 11:03	307 BDL
12/30/92 10:05	308 BDL
12/31/92 11:05	309 BDL
1/2/93 12:03	311 BDL
1/3/93 15:03	312 BDL

DATES

DAYS8/27/93CE-C EFFL (PPM)

DCECEFFL.XLS

1/4/93 10:33	313 BDL
1/5/93 9:35	314 BDL
1/6/93 9:35	315 BDL
1/7/93 10:03	316 BDL
1/8/93 9:35	317 BDL
1/8/93 9:35	317 BDL
1/9/93 12:03	318 BDL
1/10/93 14:35	319 BDL
1/11/93 11:05	320 BDL
1/12/93 11:35	321 BDL
1/13/93 8:33	322 BDL
1/14/93 10:35	323 BDL
1/15/93 10:35	324 BDL
1/26/93 16:03	335 BDL
1/27/93 10:33	336 BDL
1/28/93 9:33	337 BDL
1/29/93 8:35	338 BDL
1/31/93 11:03	340 BDL
2/1/93 10:33	341 BDL
2/2/93 9:17	342 BDL
2/3/93 9:35	343 BDL
2/4/93 10:03	344 BDL
2/5/93 10:03	345 BDL
2/7/93 15:03	347 BDL
2/8/93 10:33	348 BDL
2/9/93 10:33	349 BDL
2/10/93 13:05	350 BDL
2/11/93 9:03	351 BDL
2/12/93 10:03	352 BDL
2/13/93 11:33	353 BDL
2/14/93 19:03	354 BDL
2/15/93 9:03	355 BDL
2/16/93 9:05	356 BDL
2/17/93 9:05	357 BDL
2/18/93 10:05	358 BDL
2/18/93 10:05	358 BDL
2/19/93 9:35	359 BDL
2/24/93 11:05	364 BDL
2/25/93 9:33	365 BDL
2/26/93 9:35	366 BDL
2/27/93 13:03	367 BDL
2/28/93 10:05	368 BDL
3/1/93 10:05	369 BDL
3/2/93 8:35	370 BDL
3/3/93 10:05	371 BDL
3/3/93 10:05	371 BDL
3/4/93 10:05	372 BDL
3/5/93 9:35	373 BDL
3/6/93 10:03	374 BDL
3/7/93 13:03	375 BDL
3/8/93 10:35	376 BDL
3/9/93 10:05	377 BDL

DATES	DAYS8/27/93CE-C EFFL (PPM)	DCECEFFL.XLS
3/10/93 9:33	378 BDL	
3/11/93 8:03	379 BDL	
3/12/93 10:05	380 BDL	
3/13/93 13:03	381 BDL	
3/14/93 15:03	382 BDL	
3/14/93 15:03	382 BDL	
3/15/93 14:05	383 BDL	
3/16/93 9:33	384 BDL	
3/17/93 9:03	385 BDL	
3/18/93 9:03	386 BDL	
3/18/93 9:03	386 BDL	
3/19/93 10:33	387 BDL	
3/20/93 9:33	388 BDL	
3/21/93 9:33	389 BDL	
3/22/93 9:33	390 BDL	
3/23/93 11:03	391 BDL	
3/24/93 7:05	392 BDL	
3/25/93 9:33	393 BDL	
3/26/93 9:03	394 BDL	
3/27/93 11:03	395 BDL	
3/28/93 9:03	396 BDL	
3/29/93 10:05	397 BDL	
3/30/93 9:03	398 BDL	
3/31/93 10:33	399 BDL	
3/31/93 10:33	399 BDL	
4/1/93 10:05	400 BDL	
4/2/93 10:33	401 BDL	
4/3/93 13:03	402 BDL	
4/4/93 14:03	403 BDL	
4/12/93 10:11	411 BDL	
4/13/93 11:03	412 BDL	
4/14/93 11:05	413 BDL	
4/15/93 10:03	414 BDL	
4/15/93 10:03	414 BDL	
4/16/93 10:33	415 BDL	
4/17/93 11:03	416 BDL	
4/18/93 12:05	417 BDL	
4/19/93 7:33	418 BDL	
4/20/93 10:33	419 BDL	
4/21/93 11:03	420 BDL	
4/22/93 11:33	421 BDL	
4/24/93 12:10	423 BDL	
4/25/93 7:42	424 BDL	

DATES

DAYS

TCE EFFLU. (PPM)

TCEFFLU.XLS

WSRC DATA & CHART

FILE NAME:

TCEFFLU.XLS

TCE EFFLUENT CONCENTRATIONS

DATES	DAYS	TCE (PPM)	
2/26/92 10:47		0	39
2/26/92 10:51		0	42
2/26/92 11:26		0 BDL	
2/26/92 12:28		0 BDL	
2/26/92 13:26		0 BDL	
2/26/92 15:25		0 BDL	
2/26/92 19:50		0 BDL	
2/26/92 20:30		0 BDL	
2/26/92 23:20		1 BDL	
2/27/92 3:23		1 BDL	
2/27/92 7:23		1 BDL	
2/27/92 11:22		1 BDL	
2/27/92 15:26		1 BDL	
2/27/92 17:20		1 BDL	
2/27/92 18:10		1 BDL	
2/28/92 6:20		2 BDL	
2/28/92 12:15		2 BDL	
2/28/92 18:20		2 BDL	
2/29/92 7:10		3 BDL	
2/29/92 19:15		3	7
3/1/92 3:05		4 BDL	
3/1/92 15:00		4 BDL	
3/2/92 7:50		5 BDL	
3/2/92 19:05		5	7
3/5/92 23:48		9 BDL	
3/6/92 2:50		9 BDL	
3/6/92 10:50		9 BDL	
3/7/92 7:50		10 BDL	
3/8/92 7:50		11 BDL	
3/9/92 7:50		12 BDL	
3/10/92 7:50		13	13
3/10/92 10:00		13 BDL	
3/11/92 7:45		14	5
3/12/92 7:45		15 BDL	
3/13/92 7:50		16 BDL	
3/14/92 7:50		17 BDL	
3/15/92 7:35		18 BDL	
3/16/92 7:40		19 BDL	
3/16/92 7:40		19 BDL	
3/17/92 7:55		20 BDL	
3/18/92 7:50		21 BDL	
3/19/92 7:45		22 BDL	
3/20/92 8:05		23 BDL	
3/21/92 7:50		24 BDL	
3/21/92 7:50		24 BDL	

DATES	DAYS	TCE EFFLU. (PPM)	TCEEFFLU.XLS
3/22/92 7:40	25	BDL	
3/23/92 7:50	26	BDL	
3/24/92 8:05	27	14	
3/25/92 8:05	28	20	
3/26/92 7:05	29	BDL	
3/27/92 8:05	30	14	
3/28/92 7:00	31	3	
3/29/92 6:55	32	2	
4/2/92 15:05	36	5	
4/2/92 17:05	36	BDL	
4/3/92 8:05	37	17	
4/4/92 6:50	38	14	
4/5/92 8:05	39	BDL	
4/6/92 9:05	40	16	
4/7/92 9:05	41	14	
4/8/92 9:00	42	14	
4/9/92 7:05	43	14	
4/10/92 7:05	44	BDL	
4/11/92 7:05	45	15	
4/12/92 7:05	46	BDL	
4/13/92 8:05	47	BDL	
4/14/92 8:05	48	13	
4/15/92 8:05	49	BDL	
4/16/92 7:05	50	BDL	
4/17/92 8:05	51	13	
4/18/92 7:05	52	14	
4/19/92 7:05	53	14	
4/20/92 7:05	54	BDL	
4/21/92 9:05	55	11	
4/22/92 8:05	56	BDL	
4/23/92 9:05	57	11	
4/23/92 16:05	57	17	
4/24/92 9:05	58	BDL	
4/26/92 8:05	60	14	
4/27/92 8:05	61	12	
4/28/92 8:05	62	BDL	
4/28/92 8:05	62	BDL	
4/29/92 8:05	63	BDL	
4/30/92 8:05	64	11	
5/1/92 8:05	65	12	
5/2/92 8:05	66	15	
5/3/92 8:05	67	15	
5/4/92 8:00	68	BDL	
5/5/92 8:05	69	11	
5/6/92 8:05	70	11	
5/7/92 7:05	71	14	
5/8/92 7:05	72	16	
5/9/92 8:05	73	15	
5/10/92 8:05	74	14	
5/11/92 8:05	75	11	
5/12/92 8:05	76	11	
5/13/92 8:05	77	BDL	

DATES	DAYS	TCE EFFLU. (PPM)	TCEEFFLU.XLS
5/14/92 7:05	78	13	
5/15/92 7:05	79	15	
5/16/92 10:05	80	14	
5/17/92 8:05	81	14	
5/18/92 17:10	82	13	
5/19/92 8:05	83	BDL	
5/20/92 8:05	84	BDL	
5/20/92 8:05	84	BDL	
5/21/92 7:55	85	BDL	
5/22/92 7:05	86	BDL	
5/23/92 8:05	87	BDL	
5/24/92 8:05	88	BDL	
5/25/92 8:05	89	BDL	
5/26/92 8:05	90	BDL	
5/27/92 8:05	91	BDL	
5/28/92 8:05	92	BDL	
5/28/92 8:05	92	BDL	
5/29/92 6:10	93	BDL	
5/30/92 8:05	94	BDL	
5/31/92 10:05	95	BDL	
6/1/92 8:05	96	BDL	
6/2/92 8:05	97	BDL	
6/2/92 8:05	97	BDL	
6/3/92 8:05	98	BDL	
6/4/92 8:05	99	BDL	
6/5/92 8:05	100	5	
6/6/92 16:05	101	5	
6/7/92 11:05	102	BDL	
6/8/92 8:05	103	BDL	
6/10/92 8:05	105	8	
6/11/92 8:05	106	8	
6/11/92 8:05	106	8	
6/12/92 8:00	107	10	
6/13/92 12:00	108	9	
6/14/92 13:00	109	9	
6/16/92 8:05	111	10	
6/17/92 8:00	112		
6/17/92 8:05	112	9	
6/18/92 8:00	113		
6/18/92 8:05	113	9	
6/19/92 9:21	114	10	
6/23/92 8:30	118	9	
6/24/92 8:00	119	9	
6/25/92 8:00	120	BDL	
6/26/92 8:30	121	BDL	
6/27/92 11:30	122	BDL	
6/28/92 11:30	123	BDL	
6/29/92 7:35	124	BDL	
6/30/92 9:05	125	BDL	
7/1/92 9:35	126	BDL	
7/2/92 8:05	127	BDL	
7/3/92 8:05	128	BDL	

DATES	DAYS	TCE EFFLU. (PPM)	TCEEFFLU.XLS
7/4/92 11:05	129	BDL	
7/5/92 11:05	130	BDL	
7/6/92 9:05	131	BDL	
7/7/92 9:35	132	BDL	
7/8/92 8:05	133	BDL	
7/9/92 9:05	134	BDL	
7/10/92 10:05	135	BDL	
7/11/92 9:35	136	BDL	
7/11/92 9:35	136	BDL	
7/12/92 10:24	137	BDL	
7/13/92 8:43	138	8	
7/14/92 8:43	139	BDL	
7/15/92 8:15	140	BDL	
7/15/92 8:15	140	BDL	
7/16/92 8:14	141	9	
7/17/92 9:50	142	8	
7/18/92 8:10	143	8	
7/19/92 8:10	144	8	
7/20/92 7:51	145	8	
7/20/92 7:51	145	8	
7/21/92 9:15	146	BDL	
7/22/92 8:44	147	8	
7/23/92 8:07	148	8	
7/24/92 7:55	149	8	
7/25/92 8:15	150	BDL	
7/26/92 9:34	151	BDL	
7/27/92 8:05	152	BDL	
7/28/92 10:05	153	BDL	
7/29/92 9:05	154	BDL	
7/30/92 7:05	155	BDL	
7/30/92 7:05	155	BDL	
7/31/92 9:05	156	BDL	
8/6/92 8:05	162	BDL	
8/7/92 8:25	163	BDL	
8/8/92 9:35	164	BDL	
8/9/92 8:05	165	BDL	
8/10/92 7:40	166	BDL	
8/11/92 8:05	167	BDL	
8/12/92 7:55	168	BDL	
8/13/92 8:25	169	BDL	
8/14/92 8:20	170	18	
8/15/92 8:25	171	12	
8/16/92 8:20	172	10	
8/20/92 17:05	176	BDL	
8/20/92 17:05	176	BDL	
8/21/92 8:05	177	BDL	
8/22/92 9:35	178	BDL	
8/23/92 10:05	179	BDL	
8/24/92 8:21	180	BDL	
8/24/92 8:21	180	BDL	
8/25/92 9:00	181	BDL	
8/26/92 8:35	182	BDL	

DATES	DAYS	TCE EFFLU. (PPM)	TCEEFFLU.XLS
8/27/92 8:05	183	BDL	
8/28/92 8:35	184	BDL	
8/29/92 9:05	185		10
8/30/92 9:05	186	BDL	
9/1/92 21:30	188	BDL	
9/2/91 9:36	-177	BDL	
9/3/92 8:05	190	BDL	
9/4/92 8:35	191	BDL	
9/5/92 13:05	192	BDL	
9/6/92 10:00	193	BDL	
9/7/92 10:05	194	BDL	
9/8/92 9:00	195	BDL	
9/9/92 9:00	196	BDL	
9/10/92 8:05	197	BDL	
9/11/92 8:05	198	BDL	
9/12/92 9:05	199	BDL	
9/14/92 9:05	201	BDL	
9/14/92 9:05	201	BDL	
9/15/92 9:05	202	BDL	
9/16/92 9:45	203	BDL	
9/17/92 8:35	204	BDL	
9/18/92 9:05	205	BDL	
9/18/92 9:05	205	BDL	
9/19/92 9:05	206	BDL	
9/20/90 10:35	-524	BDL	
9/21/92 10:05	208	BDL	
9/22/92 8:35	209	BDL	
9/23/92 8:35	210	BDL	
9/24/92 8:20	211	BDL	
9/27/92 8:35	214	BDL	
9/28/92 8:05	215	BDL	
9/29/92 8:35	216	BDL	
10/1/92 9:35	218	BDL	
10/2/92 8:35	219	BDL	
10/3/92 9:35	220		13
10/4/92 8:30	221	BDL	
10/5/92 8:35	222	BDL	
10/6/92 9:05	223	BDL	
10/7/92 9:05	224	BDL	
10/8/92 9:35	225	BDL	
10/9/92 9:05	226	BDL	
10/10/92 10:35	227	BDL	
10/11/92 9:35	228	BDL	
10/15/92 10:05	232	BDL	
10/16/92 9:05	233	BDL	
10/17/92 9:27	234	BDL	
10/18/92 9:35	235	BDL	
10/19/92 9:35	236	BDL	
10/20/92 9:35	237	BDL	
10/21/92 9:35	238	BDL	
10/22/92 9:05	239	BDL	
10/23/92 9:35	240	BDL	

DATES	DAYS	TCE EFFLU. (PPM)	TCEFFLU.XLS
10/24/92 10:35	241	BDL	
10/25/92 9:09	242	BDL	
10/26/92 9:05	243	BDL	
10/27/92 9:05	244	BDL	
10/27/92 9:05	244	BDL	
10/28/92 9:09	245	BDL	
10/29/92 9:05	246	BDL	
10/30/92 10:32	247	BDL	
10/31/92 11:05	248	BDL	
11/1/92 14:05	249	BDL	
11/2/92 10:05	250	BDL	
11/3/92 9:35	251	BDL	
11/4/92 9:36	252	BDL	
11/5/92 9:35	253	BDL	
11/6/92 9:35	254	BDL	
11/7/92 9:35	255	BDL	
11/8/92 10:33	256	BDL	
11/9/92 9:35	257	BDL	
11/10/92 10:05	258	BDL	
11/11/92 19:34	259	BDL	
11/12/92 9:35	260	BDL	
11/13/92 9:35	261	BDL	
11/14/92 15:05	262	BDL	
11/15/92 13:05	263	BDL	
11/16/92 9:35	264	BDL	
11/17/92 10:05	265	BDL	
11/18/92 9:05	266	BDL	
11/19/92 9:05	267	BDL	
11/20/92 10:05	268	BDL	
11/21/92 12:05	269	BDL	
11/22/92 12:05	270	BDL	
11/23/92 9:35	271	BDL	
11/24/92 9:35	272	BDL	
11/25/92 9:33	273	BDL	
12/14/92 10:03	292	BDL	
12/15/92 9:33	293	BDL	
12/15/92 9:33	293	BDL	
12/16/92 9:05	294	BDL	
12/17/92 9:03	295	BDL	
12/18/92 9:33	296	BDL	
12/19/92 17:33	297		
12/20/92 10:35	298	BDL	
12/21/92 10:05	299	BDL	
12/22/92 10:05	300	BDL	
12/23/92 9:05	301	BDL	
12/23/92 9:05	301	BDL	
12/28/92 16:35	306	BDL	
12/29/92 11:03	307	BDL	
12/30/92 10:05	308	BDL	
12/31/92 11:05	309	BDL	
1/2/93 12:03	311	BDL	
1/3/93 15:03	312	BDL	

6

AIIM

Association for Information and Image Management

1100 Wayne Avenue, Suite 1100
Silver Spring, Maryland 20910
301/587-8202

Centimeter

Inches

MANUFACTURED TO AIIM STANDARDS
BY APPLIED IMAGE, INC.

7 of 7

DATES	DAYS	TCE EFFLU. (PPM)	TCEEFFLU.XLS
1/4/93 10:33	313	BDL	
1/5/93 9:35	314	BDL	
1/6/93 9:35	315	BDL	
1/7/93 10:03	316	BDL	
1/8/93 9:35	317	BDL	
1/8/93 9:35	317	BDL	
1/9/93 12:03	318	BDL	
1/10/93 14:35	319	BDL	
1/11/93 11:05	320	BDL	
1/12/93 11:35	321	BDL	
1/13/93 8:33	322	BDL	
1/14/93 10:35	323	BDL	
1/15/93 10:35	324	BDL	
1/26/93 16:03	335	BDL	
1/27/93 10:33	336	BDL	
1/28/93 9:33	337	BDL	
1/29/93 8:35	338	BDL	
1/31/93 11:03	340	BDL	
2/1/93 10:33	341	BDL	
2/2/93 9:17	342	BDL	
2/3/93 9:35	343	BDL	
2/4/93 10:03	344	BDL	
2/5/93 10:03	345	BDL	
2/7/93 15:03	347	BDL	
2/8/93 10:33	348	BDL	
2/9/93 10:33	349	BDL	
2/10/93 13:05	350	BDL	
2/11/93 9:03	351	BDL	
2/12/93 10:03	352	BDL	
2/13/93 11:33	353	BDL	
2/14/93 19:03	354	BDL	
2/15/93 9:03	355	BDL	
2/16/93 9:05	356	BDL	
2/17/93 9:05	357	BDL	
2/18/93 10:05	358	BDL	
2/18/93 10:05	358	BDL	
2/19/93 9:35	359	BDL	
2/24/93 11:05	364	BDL	
2/25/93 9:33	365	BDL	
2/26/93 9:35	366	BDL	
2/27/93 13:03	367	BDL	
2/28/93 10:05	368	BDL	
3/1/93 10:05	369	BDL	
3/2/93 8:35	370	BDL	
3/3/93 10:05	371	BDL	
3/3/93 10:05	371	BDL	
3/4/93 10:05	372	BDL	
3/5/93 9:35	373	BDL	
3/6/93 10:03	374	BDL	
3/7/93 13:03	375	BDL	
3/8/93 10:35	376	BDL	
3/9/93 10:05	377	BDL	

DATES	DAYS	TCE EFFLU. (PPM)	TCEEFFLU.XLS
3/10/93 9:33	378	BDL	
3/11/93 8:03	379	BDL	
3/12/93 10:05	380	BDL	
3/13/93 13:03	381	BDL	
3/14/93 15:03	382	BDL	
3/14/93 15:03	382	BDL	
3/15/93 14:05	383	BDL	
3/16/93 9:33	384	BDL	
3/17/93 9:03	385	BDL	
3/18/93 9:03	386	BDL	
3/18/93 9:03	386	BDL	
3/19/93 10:33	387	BDL	
3/20/93 9:33	388	BDL	
3/21/93 9:33	389	BDL	
3/22/93 9:33	390	BDL	
3/23/93 11:03	391	BDL	
3/24/93 7:05	392	BDL	
3/25/93 9:33	393	BDL	
3/26/93 9:03	394	BDL	
3/27/93 11:03	395	BDL	
3/28/93 9:03	396	BDL	
3/29/93 10:05	397	BDL	
3/30/93 9:03	398	BDL	
3/31/93 10:33	399	BDL	
3/31/93 10:33	399	BDL	
4/1/93 10:05	400	BDL	
4/2/93 10:33	401	BDL	
4/3/93 13:03	402	BDL	
4/4/93 14:03	403	BDL	
4/12/93 10:11	411	BDL	
4/13/93 11:03	412	BDL	
4/14/93 11:05	413	BDL	
4/15/93 10:03	414	BDL	
4/15/93 10:03	414	BDL	
4/16/93 10:33	415	BDL	
4/17/93 11:03	416	BDL	
4/18/93 12:05	417	BDL	
4/19/93 7:33	418	BDL	
4/20/93 10:33	419	BDL	
4/21/93 11:03	420	BDL	
4/22/93 11:33	421	BDL	
4/24/93 12:10	423	BDL	
4/25/93 7:42	424	BDL	

DATES

DAYS399CE EFFL (PPM)

PCEEFFLU.XLS

WSRC DATA & CHART

FILE NAME:

PCEEFFLU.XLS

PCE EFFLUENT CONCENTRATIONS

DATES	DAYS	PCE (PPM)
2/26/92 10:47	0	154
2/26/92 10:51	0	168
2/26/92 11:26	0	18
2/26/92 12:28	0	BDL
2/26/92 13:26	0	BDL
2/26/92 15:25	0	BDL
2/26/92 19:50	0	BDL
2/26/92 20:30	0	BDL
2/26/92 23:20	1	BDL
2/27/92 3:23	1	BDL
2/27/92 7:23	1	BDL
2/27/92 11:22	1	BDL
2/27/92 15:26	1	7
2/27/92 17:20	1	21
2/27/92 18:10	1	BDL
2/28/92 6:20	2	BDL
2/28/92 12:15	2	BDL
2/28/92 18:20	2	BDL
2/29/92 7:10	3	BDL
2/29/92 19:15	3	9
3/1/92 3:05	4	BDL
3/1/92 15:00	4	BDL
3/2/92 7:50	5	BDL
3/2/92 19:05	5	9
3/5/92 23:48	9	BDL
3/6/92 2:50	9	10
3/6/92 10:50	9	7
3/7/92 7:50	10	BDL
3/8/92 7:50	11	BDL
3/9/92 7:50	12	6
3/10/92 7:50	13	29
3/10/92 10:00	13	BDL
3/11/92 7:45	14	6
3/12/92 7:45	15	5
3/13/92 7:50	16	8
3/14/92 7:50	17	7
3/15/92 7:35	18	BDL
3/16/92 7:40	19	6
3/16/92 7:40	19	5
3/17/92 7:55	20	BDL
3/18/92 7:50	21	BDL
3/19/92 7:45	22	BDL
3/20/92 8:05	23	BDL
3/21/92 7:50	24	BDL
3/21/92 7:50	24	BDL

DATES

DAYS400CE EFFL (PPM)

PCEFFLU.XLS

3/22/92 7:40	25 BDL	
3/23/92 7:50	26 BDL	
3/24/92 8:05	27	16
3/25/92 8:05	28	18
3/26/92 7:05	29 BDL	
3/27/92 8:05	30 BDL	
3/28/92 7:00	31	16
3/29/92 6:55	32	17
4/2/92 15:05	36	22
4/2/92 17:05	36	16
4/3/92 8:05	37	26
4/4/92 6:50	38	50
4/5/92 8:05	39	16
4/6/92 9:05	40	29
4/7/92 9:05	41	17
4/8/92 9:00	42	18
4/9/92 7:05	43	18
4/10/92 7:05	44	16
4/11/92 7:05	45	20
4/12/92 7:05	46	15
4/13/92 8:05	47 BDL	
4/14/92 8:05	48	17
4/15/92 8:05	49	15
4/16/92 7:05	50 BDL	
4/17/92 8:05	51	15
4/18/92 7:05	52	18
4/19/92 7:05	53	18
4/20/92 7:05	54 BDL	
4/21/92 9:05	55	15
4/22/92 8:05	56	14
4/23/92 9:05	57	16
4/23/92 16:05	57	19
4/24/92 9:05	58	13
4/26/92 8:05	60	20
4/27/92 8:05	61	17
4/28/92 8:05	62 BDL	
4/28/92 8:05	62 BDL	
4/29/92 8:05	63	14
4/30/92 8:05	64	16
5/1/92 8:05	65	16
5/2/92 8:05	66	22
5/3/92 8:05	67	23
5/4/92 8:00	68	13
5/5/92 8:05	69	16
5/6/92 8:05	70	16
5/7/92 7:05	71	20
5/8/92 7:05	72	27
5/9/92 8:05	73	23
5/10/92 8:05	74	23
5/11/92 8:05	75	16
5/12/92 8:05	76	14
5/13/92 8:05	77	14

DATES

DAYS401CE EFFL (PPM)

PCEEFFLU.XLS

5/14/92 7:05	78	23
5/15/92 7:05	79	25
5/16/92 10:05	80	24
5/17/92 8:05	81	24
5/18/92 17:10	82	20
5/19/92 8:05	83	14
5/20/92 8:05	84 BDL	
5/20/92 8:05	84 BDL	
5/21/92 7:55	85	26
5/22/92 7:05	86	9
5/23/92 8:05	87	9
5/24/92 8:05	88	7
5/25/92 8:05	89	8
5/26/92 8:05	90	10
5/27/92 8:05	91	13
5/28/92 8:05	92	13
5/28/92 8:05	92	14
5/29/92 6:10	93	5
5/30/92 8:05	94 BDL	
5/31/92 10:05	95	6
6/1/92 8:05	96	11
6/2/92 8:05	97	9
6/2/92 8:05	97	9
6/3/92 8:05	98	10
6/4/92 8:05	99	9
6/5/92 8:05	100	19
6/6/92 16:05	101	18
6/7/92 11:05	102	19
6/8/92 8:05	103 BDL	
6/10/92 8:05	105	19
6/11/92 8:05	106	19
6/11/92 8:05	106	19
6/12/92 8:00	107	22
6/13/92 12:00	108	21
6/14/92 13:00	109	20
6/16/92 8:05	111	20
6/17/92 8:00	112	
6/17/92 8:05	112	21
6/18/92 8:00	113	
6/18/92 8:05	113	21
6/19/92 9:21	114	25
6/23/92 8:30	118	20
6/24/92 8:00	119	28
6/25/92 8:00	120 BDL	
6/26/92 8:30	121	17
6/27/92 11:30	122 BDL	
6/28/92 11:30	123 BDL	
6/29/92 7:35	124 BDL	
6/30/92 9:05	125 BDL	
7/1/92 9:35	126 BDL	
7/2/92 8:05	127 BDL	
7/3/92 8:05	128 BDL	

DATES	DAYS402CE EFFL (PPM)	PCEEFFLU.XLS
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7/4/92 11:05	129	BDL
7/5/92 11:05	130	BDL
7/6/92 9:05	131	BDL
7/7/92 9:35	132	BDL
7/8/92 8:05	133	14
7/9/92 9:05	134	15
7/10/92 10:05	135	15
7/11/92 9:35	136	16
7/11/92 9:35	136	16
7/12/92 10:24	137	17
7/13/92 8:43	138	16
7/14/92 8:43	139	18
7/15/92 8:15	140	15
7/15/92 8:15	140	17
7/16/92 8:14	141	32
7/17/92 9:50	142	16
7/18/92 8:10	143	17
7/19/92 8:10	144	18
7/20/92 7:51	145	16
7/20/92 7:51	145	16
7/21/92 9:15	146	16
7/22/92 8:44	147	17
7/23/92 8:07	148	16
7/24/92 7:55	149	14
7/25/92 8:15	150	BDL
7/26/92 9:34	151	BDL
7/27/92 8:05	152	BDL
7/28/92 10:05	153	BDL
7/29/92 9:05	154	BDL
7/30/92 7:05	155	12
7/30/92 7:05	155	11
7/31/92 9:05	156	10
8/6/92 8:05	162	BDL
8/7/92 8:25	163	BDL
8/8/92 9:35	164	BDL
8/9/92 8:05	165	BDL
8/10/92 7:40	166	BDL
8/11/92 8:05	167	BDL
8/12/92 7:55	168	BDL
8/13/92 8:25	169	BDL
8/14/92 8:20	170	17
8/15/92 8:25	171	15
8/16/92 8:20	172	20
8/20/92 17:05	176	BDL
8/20/92 17:05	176	BDL
8/21/92 8:05	177	BDL
8/22/92 9:35	178	BDL
8/23/92 10:05	179	BDL
8/24/92 8:21	180	BDL
8/24/92 8:21	180	BDL
8/25/92 9:00	181	BDL
8/26/92 8:35	182	BDL

DATES

DAYS403CE EFFL (PPM)

PCEFFLU.XLS

8/27/92 8:05	183 BDL	
8/28/92 8:35	184 BDL	
8/29/92 9:05	185	15
8/30/92 9:05	186 BDL	
9/1/92 21:30	188 BDL	
9/2/91 9:36	-177 BDL	
9/3/92 8:05	190 BDL	
9/4/92 8:35	191 BDL	
9/5/92 13:05	192 BDL	
9/6/92 10:00	193 BDL	
9/7/92 10:05	194 BDL	
9/8/92 9:00	195 BDL	
9/9/92 9:00	196 BDL	
9/10/92 8:05	197 BDL	
9/11/92 8:05	198 BDL	
9/12/92 9:05	199 BDL	
9/14/92 9:05	201 BDL	
9/14/92 9:05	201 BDL	
9/15/92 9:05	202 BDL	
9/16/92 9:45	203 BDL	
9/17/92 8:35	204 BDL	
9/18/92 9:05	205 BDL	
9/18/92 9:05	205 BDL	
9/19/92 9:05	206 BDL	
9/20/90 10:35	-524 BDL	
9/21/92 10:05	208 BDL	
9/22/92 8:35	209 BDL	
9/23/92 8:35	210 BDL	
9/24/92 8:20	211 BDL	
9/27/92 8:35	214 BDL	
9/28/92 8:05	215 BDL	
9/29/92 8:35	216 BDL	
10/1/92 9:35	218 BDL	
10/2/92 8:35	219	18
10/3/92 9:35	220	19
10/4/92 8:30	221	18
10/5/92 8:35	222	17
10/6/92 9:05	223 BDL	
10/7/92 9:05	224 BDL	
10/8/92 9:35	225 BDL	
10/9/92 9:05	226 BDL	
10/10/92 10:35	227 BDL	
10/11/92 9:35	228 BDL	
10/15/92 10:05	232 BDL	
10/16/92 9:05	233 BDL	
10/17/92 9:27	234 BDL	
10/18/92 9:35	235 BDL	
10/19/92 9:35	236 BDL	
10/20/92 9:35	237 BDL	
10/21/92 9:35	238 BDL	
10/22/92 9:05	239 BDL	
10/23/92 9:35	240 BDL	

DATES	DAYS404CE EFFL (PPM)	PCEEFFLU.XLS
10/24/92 10:35	241 BDL	
10/25/92 9:09	242 BDL	
10/26/92 9:05	243 BDL	
10/27/92 9:05	244 BDL	
10/27/92 9:05	244 BDL	
10/28/92 9:09	245 BDL	
10/29/92 9:05	246 BDL	
10/30/92 10:32	247 BDL	
10/31/92 11:05	248 BDL	
11/1/92 14:05	249 BDL	
11/2/92 10:05	250 BDL	
11/3/92 9:35	251 BDL	
11/4/92 9:36	252 BDL	
11/5/92 9:35	253 BDL	
11/6/92 9:35	254 BDL	
11/7/92 9:35	255 BDL	
11/8/92 10:33	256 BDL	
11/9/92 9:35	257 BDL	
11/10/92 10:05	258 BDL	
11/11/92 19:34	259 BDL	
11/12/92 9:35	260 BDL	
11/13/92 9:35	261 BDL	
11/14/92 15:05	262 BDL	
11/15/92 13:05	263 BDL	
11/16/92 9:35	264 BDL	
11/17/92 10:05	265 BDL	
11/18/92 9:05	266 BDL	
11/19/92 9:05	267 BDL	
11/20/92 10:05	268 BDL	
11/21/92 12:05	269 BDL	
11/22/92 12:05	270 BDL	
11/23/92 9:35	271 BDL	
11/24/92 9:35	272 BDL	
11/25/92 9:33	273 BDL	
12/14/92 10:03	292 BDL	
12/15/92 9:33	293 BDL	
12/15/92 9:33	293 BDL	
12/16/92 9:05	294 BDL	
12/17/92 9:03	295 BDL	
12/18/92 9:33	296 BDL	
12/19/92 17:33	297 BDL	
12/20/92 10:35	298	15
12/21/92 10:05	299	7
12/22/92 10:05	300 BDL	
12/23/92 9:05	301 BDL	
12/23/92 9:05	301 BDL	
12/28/92 16:35	306 BDL	
12/29/92 11:03	307 BDL	
12/30/92 10:05	308 BDL	
12/31/92 11:05	309 BDL	
1/2/93 12:03	311 BDL	
1/3/93 15:03	312 BDL	

DATES

DAYS405CE EFFL (PPM)

PCEEFFLU.XLS

1/4/93 10:33	313 BDL	
1/5/93 9:35	314 BDL	
1/6/93 9:35	315 BDL	
1/7/93 10:03	316 BDL	
1/8/93 9:35	317 BDL	
1/8/93 9:35	317 BDL	
1/9/93 12:03	318 BDL	
1/10/93 14:35	319 BDL	
1/11/93 11:05	320 BDL	
1/12/93 11:35	321 BDL	
1/13/93 8:33	322 BDL	
1/14/93 10:35	323 BDL	
1/15/93 10:35	324 BDL	
1/20/93 16:03	335 BDL	
1/27/93 10:33	336 BDL	
1/28/93 9:33	337 BDL	
1/29/93 8:35	338 BDL	
1/31/93 11:03	340 BDL	
2/1/93 10:33	341	7
2/2/93 9:17	342 BDL	
2/3/93 9:35	343 BDL	
2/4/93 10:03	344 BDL	
2/5/93 10:03	345 BDL	
2/7/93 15:03	347	5
2/8/93 10:33	348 BDL	
2/9/93 10:33	349	7
2/10/93 13:05	350	9
2/11/93 9:03	351	6
2/12/93 10:03	352 BDL	
2/13/93 11:33	353	9
2/14/93 19:03	354	9
2/15/93 9:03	355	7
2/16/93 9:05	356	9
2/17/93 9:05	357	10
2/18/93 10:05	358	11
2/18/93 10:05	358	11
2/19/93 9:35	359	11
2/24/93 11:05	364	10
2/25/93 9:33	365	10
2/26/93 9:35	366	10
2/27/93 13:03	367	7
2/28/93 10:05	368	6
3/1/93 10:05	369	8
3/2/93 8:35	370	6
3/3/93 10:05	371	5
3/3/93 10:05	371	5
3/4/93 10:05	372	11
3/5/93 9:35	373	11
3/6/93 10:03	374	9
3/7/93 13:03	375	7
3/8/93 10:35	376	8
3/9/93 10:05	377	7

DATES

DAYS406CE EFFL (PPM)

PCEEFFLU.XLS

3/10/93 9:33	378	6
3/11/93 8:03	379	9
3/12/93 10:05	380	7
3/13/93 13:03	381 BDL	
3/14/93 15:03	382	10
3/14/93 15:03	382	10
3/15/93 14:05	383	7
3/16/93 9:33	384	8
3/17/93 9:03	385 BDL	
3/18/93 9:03	386 BDL	
3/18/93 9:03	386 BDL	
3/19/93 10:33	387 BDL	
3/20/93 9:33	388 BDL	
3/21/93 9:33	389 BDL	
3/22/93 9:33	390 BDL	
3/23/93 11:03	391 BDL	
3/24/93 7:05	392 BDL	
3/25/93 9:33	393 BDL	
3/26/93 9:03	394 BDL	
3/27/93 11:03	395 BDL	
3/28/93 9:03	396 BDL	
3/29/93 10:05	397 BDL	
3/30/93 9:03	398	6
3/31/93 10:33	399 BDL	
3/31/93 10:33	399 BDL	
4/1/93 10:05	400 BDL	
4/2/93 10:33	401 BDL	
4/3/93 13:03	402 BDL	
4/4/93 14:03	403	6
4/12/93 10:11	411 BDL	
4/13/93 11:03	412 BDL	
4/14/93 11:05	413 BDL	
4/15/93 10:03	414 BDL	
4/15/93 10:03	414 BDL	
4/16/93 10:33	415	6
4/17/93 11:03	416 BDL	
4/18/93 12:05	417 BDL	
4/19/93 7:33	418 BDL	
4/20/93 10:33	419 BDL	
4/21/93 11:03	420 BDL	
4/22/93 11:33	421 BDL	
4/24/93 12:10	423 BDL	
4/25/93 7:42	424 BDL	

ES

DAYSOC EFFL (PPM)

VOCEFFLU.XLS

ATA * CHART

FILE NAME:

VOCEFFLU.XLS

OC IN EFFLUENT

	DAYS	TOTAL VOC (PPM)
2 10:47	0	193
2 10:51	0	210
2 11:26	0	18
2 12:28	0	0
2 13:26	0	0
2 15:25	0	0
2 19:50	0	0
2 20:30	0	0
2 23:20	1	0
92 3:23	1	0
92 7:23	1	0
2 11:22	1	0
2 15:26	1	7
2 17:20	1	21
2 18:10	1	0
92 6:20	2	0
2 12:15	2	0
2 18:20	2	0
92 10	3	0
2	3	16
92 3:05	4	0
2 15:00	4	0
92 7:50	5	0
2 19:05	5	16
2 23:48	9	0
92 2:50	9	10
2 10:50	9	7
92 7:50	10	0
92 7:50	11	0
92 7:50	12	6
92 7:50	13	42
2 10:00	13	BDL
92 7:45	14	11
92 7:45	15	5
92 7:50	16	8
92 7:50	17	7
92 7:35	18	BDL
92 7:40	19	6
92 7:40	19	5
92 7:55	20	BDL
92 7:50	21	BDL
92 7:45	22	BDL
92 8:05	23	BDL
92 10	24	BDL
92 10	24	BDL

DATES DAYSOC EFFL (PPM) VOCEFFLU.XLS

5/14/92 7:05	78	36
5/15/92 7:05	79	40
5/16/92 10:05	80	38
5/17/92 8:05	81	38
5/18/92 17:10	82	33
5/19/92 8:05	83	14
5/20/92 8:05	84 BDL	
5/20/92 8:05	84 BDL	
5/21/92 7:55	85	34
5/22/92 7:05	86	16
5/23/92 8:05	87	16
5/24/92 8:05	88	14
5/25/92 8:05	89	15
5/26/92 8:05	90	17
5/27/92 8:05	91	20
5/28/92 8:05	92	20
5/28/92 8:05	92	21
5/29/92 6:10	93	5
5/30/92 8:05	94 BDL	
5/31/92 10:05	95	6
6/1/92 8:05	96	11
6/2/92 8:05	97	9
6/2/92 8:05	97	9
6/3/92 8:05	98	10
6/4/92 8:05	99	9
6/5/92 8:05	100	24
6/6/92 16:05	101	23
6/7/92 11:05	102	19
6/8/92 8:05	103 BDL	
6/10/92 8:05	105	27
6/11/92 8:05	106	27
6/11/92 8:05	106	27
6/12/92 8:00	107	41
6/13/92 12:00	108	38
6/14/92 13:00	109	37
6/16/92 8:05	111	38
6/17/92 8:00	112	
6/17/92 8:05	112	38
6/18/92 8:00	113	
6/18/92 8:05	113	38
6/19/92 9:21	114	43
6/23/92 8:30	118	28
6/24/92 8:00	119	45
6/25/92 8:00	120 BDL	
6/26/92 8:30	121	17
6/27/92 11:30	122 BDL	
6/28/92 11:30	123 BDL	
6/29/92 7:35	124 BDL	
6/30/92 9:05	125 BDL	
7/1/92 9:35	126 BDL	
7/2/92 8:05	127 BDL	
7/3/92 8:05	128 BDL	

DATES DAYSOC EFFL (PPM) VOCEFFLU.XLS

7/4/92 11:05	129	BDL
7/5/92 11:05	130	BDL
7/6/92 9:05	131	BDL
7/7/92 9:35	132	BDL
7/8/92 8:05	133	21
7/9/92 9:05	134	23
7/10/92 10:05	135	22
7/11/92 9:35	136	24
7/11/92 9:35	136	24
7/12/92 10:24	137	25
7/13/92 8:43	138	23
7/14/92 8:43	139	26
7/15/92 8:15	140	23
7/15/92 8:15	140	24
7/16/92 8:14	141	48
7/17/92 9:50	142	31
7/18/92 8:10	143	32
7/19/92 8:10	144	33
7/20/92 7:51	145	32
7/20/92 7:51	145	32
7/21/92 3:15	146	23
7/22/92 8:44	147	33
7/23/92 8:07	148	32
7/24/92 7:55	149	22
7/25/92 8:15	150	BDL
7/26/92 9:34	151	BDL
7/27/92 8:05	152	BDL
7/28/92 10:05	153	BDL
7/29/92 9:05	154	7
7/30/92 7:05	155	12
7/30/92 7:05	155	11
7/31/92 9:05	156	10
8/6/92 8:05	162	BDL
8/7/92 8:25	163	BDL
8/8/92 9:35	164	BDL
8/9/92 8:05	165	BDL
8/10/92 7:40	166	BDL
8/11/92 8:05	167	BDL
8/12/92 7:55	168	BDL
8/13/92 8:25	169	BDL
8/14/92 8:20	170	35
8/15/92 8:25	171	27
8/16/92 8:20	172	30
8/20/92 17:05	176	BDL
8/20/92 17:05	176	BDL
8/21/92 8:05	177	BDL
8/22/92 9:35	178	BDL
8/23/92 10:05	179	BDL
8/24/92 8:21	180	BDL
8/24/92 8:21	180	BDL
8/25/92 9:00	181	BDL
8/26/92 8:35	182	BDL

2 8:05	183 BDL	
2 8	184 BDL	
2 9:00	185	25
2 9:05	186 BDL	
21:30	188 BDL	
1 9:36	-177 BDL	
2 8:05	190 BDL	
2 8:35	191 BDL	
13:05	192 BDL	
10:00	193 BDL	
10:05	194 BDL	
2 9:00	195 BDL	
2 9:00	196 BDL	
2 8:05	197 BDL	
2 8:05	198 BDL	
2 9:05	199 BDL	
2 9:05	201 BDL	
2 9:05	201 BDL	
2 9:05	202 BDL	
2 9:45	203 BDL	
2 8:35	204 BDL	
2 9:05	205 BDL	
2 9:05	205 BDL	
2 9:05	206 BDL	
10:35	-524 BDL	
10	208 BDL	
12 L	209 BDL	
12 8:35	210 BDL	
12 8:20	211 BDL	
12 8:35	214 BDL	
12 8:05	215 BDL	
12 8:35	216 BDL	
12 9:35	218 BDL	
12 8:35	219	30
12 9:35	220	43
12 8:30	221	29
12 8:35	222	28
12 9:05	223 BDL	
12 9:05	224 BDL	
12 9:35	225 BDL	
12 9:05	226 BDL	
1 10:35	227 BDL	
12 9:35	228 BDL	
1 10:05	232 BDL	
12 9:05	233 BDL	
12 9:27	234 BDL	
12 9:35	235 BDL	
12 9:35	236 BDL	
12 9:35	237 BDL	
12 9:35	238 BDL	
12 r	239 BDL	
12 L	240 BDL	

DATES

DAYSOC EFFL (PPM)

VOCEFFLU.XLS

1/4/93 10:33	313 BDL	
1/5/93 9:35	314 BDL	
1/6/93 9:35	315 BDL	
1/7/93 10:03	316 BDL	
1/8/93 9:35	317 BDL	
1/8/93 9:35	317 BDL	
1/9/93 12:03	318 BDL	
1/10/93 14:35	319 BDL	
1/11/93 11:05	320 BDL	
1/12/93 11:35	321 BDL	
1/13/93 8:33	322 BDL	
1/14/93 10:35	323 BDL	
1/15/93 10:35	324 BDL	
1/26/93 16:03	335	16
1/27/93 10:33	336	15
1/28/93 9:33	337	14
1/29/93 8:35	338	18
1/31/93 11:03	340	14
2/1/93 10:33	341	7
2/2/93 9:17	342 BDL	
2/3/93 9:35	343 BDL	
2/4/93 10:03	344 BDL	
2/5/93 10:03	345 BDL	
2/7/93 15:03	347	5
2/8/93 10:33	348 BDL	
2/9/93 10:33	349	7
2/10/93 13:05	350	9
2/11/93 9:03	351	6
2/12/93 10:03	352 BDL	
2/13/93 11:33	353	9
2/14/93 19:03	354	9
2/15/93 9:03	355	7
2/16/93 9:05	356	9
2/17/93 9:05	357	10
2/18/93 10:05	358	11
2/18/93 10:05	358	11
2/19/93 9:35	359	11
2/24/93 11:05	364	10
2/25/93 9:33	365	10
2/26/93 9:35	366	10
2/27/93 13:03	367	7
2/28/93 10:05	368	6
3/1/93 10:05	369	8
3/2/93 8:35	370	6
3/3/93 10:05	371	5
3/3/93 10:05	371	5
3/4/93 10:05	372	11
3/5/93 9:35	373	11
3/6/93 10:03	374	9
3/7/93 13:03	375	7
3/8/93 10:35	376	8
3/9/93 10:05	377	7

DATES	DAYSOC EFFL (PPM)	VOCEFFLU.XLS
3/10/93 9:33	378	6
3/11/93 8:03	379	9
3/12/93 10:05	380	7
3/13/93 13:03	381 BDL	
3/14/93 15:03	382	10
3/14/93 15:03	382	10
3/15/93 14:05	383	7
3/16/93 9:33	384	8
3/17/93 9:03	385 BDL	
3/18/93 9:03	386 BDL	
3/18/93 9:03	386 BDL	
3/19/93 10:33	387 BDL	
3/20/93 9:33	388 BDL	
3/21/93 9:33	389 BDL	
3/22/93 9:33	390 BDL	
3/23/93 11:03	391 BDL	
3/24/93 7:05	392 BDL	
3/25/93 9:33	393 BDL	
3/26/93 9:03	394 BDL	
3/27/93 11:03	395 BDL	
3/28/93 9:03	396 BDL	
3/29/93 10:05	397 BDL	
3/30/93 9:03	398	6
3/31/93 10:33	399 BDL	
3/31/93 10:33	399 BDL	
4/1/93 10:05	400 BDL	
4/2/93 10:33	401 BDL	
4/3/93 13:03	402 BDL	
4/4/93 14:03	403	6
4/12/93 10:11	411 BDL	
4/13/93 11:03	412 BDL	
4/14/93 11:05	413 BDL	
4/15/93 10:03	414 BDL	
4/15/93 10:03	414 BDL	
4/16/93 10:33	415	6
4/17/93 11:03	416 BDL	
4/18/93 12:05	417 BDL	
4/19/93 7:33	418 BDL	
4/20/93 10:33	419 BDL	
4/21/93 11:03	420 BDL	
4/22/93 11:33	421 BDL	
4/24/93 12:10	423 BDL	
4/25/93 7:42	424 BDL	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
4/5/92 15:00	40	1.22	
4/6/92 9:00	40	2.25	
4/6/92 9:05	40	2.33	
4/6/92 16:00	41	1.95	
4/7/92 9:00	41	2.29	
4/7/92 16:00	42	2.36	
4/8/92 8:55	42	2.2	
4/8/92 16:00	43	1.56	
4/9/92 7:00	43	2.04	
4/9/92 7:00	43	2.06	
4/9/92 16:00	44	2.06	
4/11/92 7:00	45	2.28	
4/11/92 13:00	46	2.11	
4/12/92 7:00	46	2.4	
4/12/92 13:55	47	2.3	
4/13/92 8:00	47	2.47	
4/13/92 16:00	48	2.56	
4/14/92 8:00	48	2.47	
4/14/92 16:00	49	2.59	
4/15/92 8:00	49	2.68	
4/15/92 15:00	50	2.39	
4/16/92 7:00	50	2.56	
4/16/92 15:55	51	2.02	
4/17/92 8:00	51	1.88	
4/17/92 14:00	52	1.91	
4/18/92 7:00	52	2.1	
4/18/92 7:05	52	1.99	
4/18/92 13:00	53	1.99	
4/19/92 7:00	53	1.56	
4/19/92 14:05	54	1.59	
4/20/92 9:00	54	2.31	
4/20/92 16:00	55	2.54	
4/21/92 9:00	55	2.66	
4/21/92 16:00	56	2.58	
4/22/92 8:00	56	2.7	
4/22/92 8:05	56	2.6	
4/23/92 9:00	57	2.21	
4/23/92 16:00	58	1.01	
4/24/92 9:00	58	2.36	
4/24/92 14:00	59	2.38	
4/26/92 8:00	60	2.31	
4/26/92 14:00	61	2.41	
4/27/92 8:00	61	2.61	
4/27/92 15:00	62	2.53	
4/28/92 8:00	62	2.65	
4/28/92 15:00	63	2.36	
4/29/92 8:00	63	2.53	
4/29/92 15:00	64	2.76	
4/30/92 8:00	64	2.6	
4/30/92 16:00	65	2.1	
5/1/92 8:00	65	2.1	
5/1/92 15:00	66	2.69	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
5/2/92 8:00	66	2.37	
5/3/92 8:00	67	2.25	
5/4/92 8:00	68	2.55	
5/4/92 15:00	69	2.57	
5/5/92 8:00	69	2.55	
5/5/92 15:00	70	2.38	
5/6/92 8:00	70	2.61	
5/6/92 16:00	71	2.56	
5/7/92 7:00	71	2.1883	
5/7/92 15:00	72	2.41	
5/8/92 7:00	72	2.43	
5/8/92 7:00	72	2.54	
5/8/92 13:00	73	2.27	
5/8/92 13:00	73	2.28	
5/9/92 8:00	73	2.44	
5/10/92 8:00	74	2.28	
5/11/92 8:00	75	2.51	
5/11/92 14:00	76	2.4	
5/12/92 8:00	76	2.5	
5/12/92 14:00	77	2.36	
5/12/92 14:00	77	2.41	
5/13/92 8:00	77	2.5	
5/13/92 14:00	78	2.54	
5/14/92 7:00	78	2.2894	
5/14/92 15:00	79	2.41	
5/14/92 15:00	79	2.44	
5/15/92 7:00	79	2.21	
5/15/92 14:00	80	2.21	
5/16/92 10:00	80	2.14	
5/17/92 8:00	81	2.31	
5/18/92 17:05	83	2.28	
5/19/92 8:00	83	2.43	
5/19/92 15:00	84	2.32	
5/19/92 15:00	84	2.33	
5/20/92 8:00	84	2.29	
5/20/92 15:00	85	2.58	
5/21/92 8:00	85	2.44	
5/21/92 14:30	86	1.8	
5/21/92 14:30	86	1.85	
5/22/92 7:00	86	1.78	
5/22/92 13:05	87	1.64	
5/22/92 13:05	87	1.64	
5/23/92 8:00	87	1.84	
5/24/92 8:00	88	1.49	
5/25/92 8:00	89	1.4866	
5/25/92 17:00	90	1.7051	
5/26/92 8:00	90	1.92	
5/26/92 14:00	91	1.94	
5/26/92 14:00	91	2	
5/27/92 8:00	91	1.86	
5/27/92 13:00	92	1.83	
5/28/92 8:00	92	2.03	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
5/28/92 16:00	93	1.64	
5/28/92 16:00	93	1.68	
5/29/92 6:05	93	1.88	
5/29/92 12:00	94	1.85	
5/29/92 12:00	94	1.89	
5/30/92 8:00	94	1.74	
5/31/92 10:00	95	1.88	
6/1/92 8:00	96	1.91	
6/1/92 14:00	97	1.94	
6/2/92 8:00	97	1.8945	
6/2/92 14:00	98	1.8164	
6/2/92 14:00	98	1.8366	
6/3/92 8:00	98	1.9012	
6/3/92 14:00	99	1.8355	
6/4/92 8:00	99	1.92	
6/4/92 14:00	100	1.76	
6/4/92 14:00	100	1.83	
6/5/92 8:00	100	1.73	
6/6/92 16:00	102	1.91	
6/7/92 11:00	102	1.81	
6/8/92 8:00	103	1.3225	
6/10/92 8:00	105	1.836	
6/10/92 8:00	105	1.8705	
6/10/92 14:00	106	1.8238	
6/11/92 8:00	106	1.8472	
6/11/92 14:00	107	1.647	
6/12/92 8:00	107	2.1813	
6/12/92 8:00	107	2.3988	
6/12/92 12:00	108	1.6964	
6/13/92 12:00	109	2.2747	
6/13/92 12:00	109	2.3055	
6/14/92 13:00	110	2.4631	
6/15/92 9:30	110	2.5229	
6/15/92 15:00	111	2.1038	
6/16/92 8:00	111	2.46	
6/16/92 14:00	112	2.34	
6/17/92 8:00	112	2.31	
6/17/92 8:00	112	2.44	
6/17/92 13:00	113	2.29	
6/18/92 8:00	113	1.02	
6/18/92 16:25	114	2.328	
6/19/92 9:08	114	2.568	
6/19/92 12:15	115	2.642	
6/23/92 8:30	118	2.31	
6/23/92 13:30	119	2.453	
6/24/92 8:00	119	2.446	
6/24/92 8:00	119	2.468	
6/24/92 12:00	120	2.564	
6/25/92 8:00	120	2.0679	
6/25/92 12:30	121	1.5869	
6/26/92 8:30	121	1.84	
6/26/92 8:30	121	1.88	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
6/26/92 13:00	122	2.3364	
6/27/92 11:30	122	2.1108	
6/28/92 11:30	123	2.2726	
6/28/92 11:30	123	2.3535	
6/29/92 7:30	124	2.2169	
6/29/92 13:00	125	2.3334	
6/30/92 9:00	125	2.0538	
6/30/92 14:00	126	2.316	
7/1/92 9:30	126	2.2459	
7/1/92 14:00	127	1.9467	
7/1/92 14:00	127	1.955	
7/2/92 8:00	127	2.1105	
7/2/92 13:30	128	2.323	
7/3/92 8:00	128	2.3246	
7/3/92 12:00	129	2.2757	
7/3/92 12:00	129	2.398	
7/4/92 11:00	129	2.2776	
7/5/92 11:00	130	2.181	
7/6/92 9:00	131	2.1752	
7/6/92 15:00	132	2.0653	
7/7/92 9:30	132	2.28	
7/8/92 8:00	133	2.19	
7/8/92 15:00	134	2.37	
7/9/92 9:00	134	1.99	
7/9/92 14:00	135	1.89	
7/10/92 10:00	135	2.25	
7/10/92 13:00	136	2.14	
7/11/92 9:30	136	2.13	
7/12/92 10:15	137	2.3	
7/13/92 8:40	138	2.48	
7/13/92 13:35	139	2.52	
7/14/92 8:40	139	2.62	
7/14/92 13:25	140	2.38	
7/15/92 8:11	140	2.392	
7/15/92 8:11	140	2.462	
7/15/92 13:31	141	2.47	
7/16/92 8:10	141	1.45	
7/16/92 13:58	142	2.41	
7/17/92 9:45	142	2.4913	
7/17/92 13:29	143	2.368	
7/18/92 8:05	143	2.2116	
7/19/91 8:02	-222	2.2966	
7/20/92 7:45	145	2.3683	
7/20/92 13:00	146	2.3965	
7/21/92 9:10	146	2.0229	
7/21/92 13:30	147	2.3212	
7/21/92 13:30	147	2.5555	
7/22/92 8:39	147	2.4196	
7/22/92 13:35	148	2.4468	
7/23/92 8:02	148	1.7446	
7/23/92 13:30	149	2.1404	
7/24/92 7:50	149	2.1553	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
7/24/92 13:00	150	2.2793	
7/25/92 8:10	150	2.3362	
7/26/92 9:30	151	1.2349	
7/27/92 8:00	152	1.06	
7/27/92 13:00	153	1.9803	
7/28/92 10:00	153	1.7822	
7/28/92 12:00	154	2.0849	
7/29/92 9:00	154	1.3959	
7/29/92 9:00	154	1.67	
7/29/92 13:00	155	0.548	
7/30/92 7:00	155	1.5199	
7/30/92 12:00	156	1.2397	
7/31/92 8:00	156	0.4811	
7/31/92 9:00	156	0.5401	
7/31/92 12:00	157	2.4255	
8/6/92 8:00	162	2.0411	
8/6/92 12:00	163	2.1779	
8/7/92 8:20	163	1.699	
8/7/92 13:22	164	2.3555	
8/8/92 9:30	164	2.1424	
8/9/92 8:00	165	2.0257	
8/10/92 7:35	166	2.1707	
8/10/92 7:35	166	2.194	
8/10/92 13:20	167	2.32	
8/11/92 8:00	167	2.12	
8/11/92 13:00	168	2.48	
8/12/92 7:50	168	2.09	
8/12/92 12:26	169	2.3023	
8/12/92 12:26	169	2.3236	
8/13/92 8:20	169	1.2836	
8/13/92 15:00	170	2.0233	
8/14/92 8:15	170	1.6663	
8/14/92 13:00	171	2.3392	
8/14/92 13:00	171	2.3512	
8/15/92 8:20	171	2.223	
8/16/92 8:15	172	2.211	
8/17/92 9:00	173	2.042	
8/17/92 9:00	173	2.0447	
8/17/92 14:30	174	2.2439	
8/18/92 8:25	174	2.2919	
8/18/92 14:00	175	2.2837	
8/19/92 8:10	175	2.1291	
8/20/92 17:00	177	2.2013	
8/21/92 8:00	177	1.53	
8/21/92 13:30	178	2.12	
8/22/92 9:30	178	2.15	
8/23/92 10:00	179	2.2816	
8/24/92 8:16	180	2.0977	
8/24/92 13:30	181	2.4817	
8/25/92 8:50	181	2.0564	
8/25/92 14:00	182	2.3066	
8/26/92 8:30	182	2.0981	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
8/26/92 13:30	183	2.3196	
8/27/92 8:00	183	1.6446	
8/27/92 13:30	184	2.1776	
8/28/92 8:30	184	2.097	
8/28/92 13:00	185	2.1605	
8/29/92 9:00	185	2.2	
8/30/92 9:00	186	2.2051	
8/31/92 8:30	187	2.1336	
8/31/92 13:00	188	2.2166	
9/1/92 21:25	189	2.0631	
9/2/92 9:31	189	2.1646	
9/2/92 9:31	189	2.1992	
9/2/91 13:30	-176	2.127	
9/3/92 8:00	190	2.2407	
9/3/92 13:40	191	2.3418	
9/4/92 8:30	191	2.3396	
9/4/92 12:00	192	2.2385	
9/5/92 13:00	193	2.2145	
9/5/92 13:00	193	2.2633	
9/6/92 9:55	193	2.1858	
9/7/92 10:00	194	2.288	
9/7/92 12:30	195	2.2335	
9/8/92 8:55	195	2.2806	
9/8/92 8:55	195	2.2989	
9/8/92 12:55	196	2.3847	
9/9/92 8:55	196	2.0848	
9/9/92 12:00	197	2.2334	
9/10/92 8:00	197	2.1573	
9/10/92 12:00	198	2.0899	
9/10/92 12:00	198	2.1034	
9/11/92 8:00	198	2.1972	
9/11/92 12:00	199	2.2592	
9/12/92 9:00	199	2.21	
9/13/92 9:00	200	2.14	
9/14/92 9:00	201	1.6269	
9/14/92 9:00	201	1.7038	
9/14/92 16:05	202	2.2223	
9/15/92 9:00	202	2.2096	
9/15/92 13:00	203	2.4521	
9/16/92 9:40	203	2.2741	
9/16/92 13:45	204	2.3236	
9/16/92 13:45	204	2.3365	
9/17/92 8:30	204	1.8588	
9/17/92 14:00	205	2.1006	
9/18/92 9:00	205	1.7169	
9/18/92 13:30	206	1.9457	
9/19/92 9:00	206	1.9481	
9/20/92 10:30	207	1.968	
9/21/92 10:00	208	1.94	
9/21/92 14:00	209	2.14	
9/22/92 8:30	209	2.03	
9/22/92 13:00	210	2.02	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
9/23/92 8:30	210	2.17	
9/23/92 13:00	211	2	
9/24/92 8:15	211	1.52	
9/24/92 13:00	212	2.0257	
9/24/92 13:00	212	2.05	
9/27/92 8:30	214	2.3389	
9/28/92 8:00	215	2.255	
9/28/92 13:00	216	2.3096	
9/29/92 8:30	216	2.2018	
9/29/92 14:30	217	2.0832	
10/1/92 9:30	218	2.23	
10/1/92 14:00	219	2.22	
10/2/92 8:30	219	1.83	
10/2/92 13:00	220	1.5	
10/3/92 9:30	220	2.03	
10/4/92 8:28	221	2.2258	
10/5/92 8:30	222	1.51	
10/5/92 13:30	223	2.22	
10/6/92 9:00	223	2.27	
10/6/92 9:00	223	2.28	
10/6/92 13:30	224	2.34	
10/7/92 9:00	224	2.19	
10/7/92 13:30	225	2.28	
10/8/92 9:30	225	2.15	
10/8/92 14:00	226	2.24	
10/9/92 9:00	226	2.16	
10/9/92 13:30	227	2.38	
10/10/92 10:30	227	2.15	
10/11/92 9:30	228	2.1368	
10/15/92 10:00	232	2.0916	
10/15/92 13:00	233	2.1278	
10/15/92 13:00	233	2.1797	
10/16/92 9:00	233	1.9115	
10/16/92 13:00	234	2.2957	
10/17/92 9:23	234	2.1141	
10/18/92 9:30	235	2.0824	
10/19/92 9:30	236	2.0237	
10/19/92 9:30	236	2.0692	
10/19/92 13:30	237	2.03	
10/20/92 9:30	237	2.1273	
10/20/92 13:30	238	2.0091	
10/21/92 9:30	238	2.1062	
10/21/92 13:00	239	2.3004	
10/22/92 9:00	239	1.9929	
10/22/92 12:00	240	2.2	
10/23/92 9:30	240	1.7772	
10/23/92 14:00	241	2.0032	
10/24/92 10:30	241	1.9954	
10/24/92 17:00	242	1.9648	
10/25/92 9:07	242	2.1321	
10/25/92 9:07	242	2.1331	
10/25/92 15:00	243	1.9423	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
10/26/92 9:00	243	2.0315	
10/26/92 15:00	244	2.0615	
10/27/92 9:00	244	2.1159	
10/27/92 14:30	245	2.1892	
10/28/92 9:07	245	2.1278	
10/28/92 13:30	246	2.1174	
10/28/92 13:30	246	2.1522	
10/29/92 9:00	246	1.9691	
10/29/92 9:00	246	1.9987	
10/29/92 13:00	247	2.0954	
10/30/92 10:25	247	2.13	
10/30/92 18:00	248	2.17	
10/31/92 11:00	248	1.91	
11/1/92 14:00	250	2.1816	
11/2/92 10:00	250	1.9036	
11/2/92 15:00	251	2.0551	
11/3/92 9:30	251	1.8894	
11/3/92 17:30	252	2.0159	
11/4/92 9:33	252	2.1313	
11/4/92 14:00	253	2.1188	
11/5/92 9:30	253	1.9254	
11/5/92 9:30	253	1.9386	
11/5/92 13:00	254	1.9563	
11/6/92 9:30	254	2.003	
11/6/92 14:00	255	2.271	
11/7/92 9:30	255	1.97	
11/8/92 10:30	256	2.1315	
11/8/92 10:30	256	2.1581	
11/9/92 9:30	257	2.01	
11/9/92 13:30	258	1.97	
11/10/92 10:00	258	2.0351	
11/10/92 14:00	259	2.1283	
11/11/92 19:32	260	2.13	
11/12/92 9:30	260	2	
11/12/92 9:30	260	2	
11/12/92 13:00	261	2.1	
11/13/92 9:30	261	1.96	
11/13/92 13:00	262	2.15	
11/14/92 15:00	263	2.09	
11/15/92 13:00	264	2.25	
11/16/92 9:30	264	1.9112	
11/16/92 13:00	265	2.04	
11/17/92 10:00	265	0.68	
11/17/92 10:00	265	0.6933	
11/17/92 14:30	266	0.63	
11/18/92 9:00	266	1.9	
11/18/92 13:00	267	1.77	
11/19/92 9:00	267	0.863	
11/19/92 13:00	268	1.5682	
11/20/92 10:00	268	1.6907	
11/20/92 14:00	269	1.77322	
11/21/92 12:00	270	1.73	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
11/21/92 12:00	270	1.78	
11/22/92 12:00	271	1.89	
11/23/92 9:30	271	1.74	
11/23/92 13:00	272	1.86	
11/24/92 9:30	272	1.77	
11/24/92 13:00	273	1.69	
11/25/92 9:30	273	1.65	
11/25/92 9:30	273	1.66	
11/25/92 12:30	274	1.64	
11/27/92 9:00	275	1.3008	
11/27/92 13:00	276	1.5455	
11/28/92 16:00	277	1.8633	
11/29/92 12:00	278	1.8941	
11/30/92 9:30	278	1.832	
11/30/92 14:00	279	1.8207	
12/1/92 9:30	279	1.8048	
12/1/92 9:30	279	1.842	
12/1/92 14:00	280	1.9378	
12/4/92 10:30	282	1.3033	
12/4/92 15:30	283	1.6684	
12/5/92 11:03	283	1.6373	
12/5/92 11:03	283	1.6402	
12/6/92 18:00	285	1.7088	
12/7/92 10:30	285	1.6268	
12/7/92 15:00	286	1.8657	
12/7/92 15:00	286	1.8898	
12/8/92 10:00	286	1.7766	
12/8/92 10:00	286	1.6881	
12/9/92 9:30	287	1.0508	
12/9/92 13:30	288	1.7096	
12/10/92 8:30	288	1.2371	
12/10/92 14:00	289	1.7122	
12/11/92 9:00	289	1.7219	
12/11/92 13:30	290	1.7661	
12/12/92 12:00	291	1.67	
12/12/92 12:00	291	1.7214	
12/14/92 10:00	292	1.7	
12/14/92 15:00	293	1.85	
12/15/92 9:30	293	1.85	
12/15/92 13:30	294	1.79	
12/16/92 9:00	294	1.88	
12/16/92 14:00	295	1.77	
12/16/92 14:00	295	1.81	
12/17/92 9:00	295	1.65	
12/17/92 13:00	296	1.63	
12/18/92 9:30	296	1.65	
12/18/92 13:00	297	1.43	
12/19/92 17:30	298	1.78	
12/20/92 10:30	298	1.92	
12/21/92 10:00	299	1.7175	
12/21/92 14:30	300	1.5108	
12/22/92 10:00	300	1.6224	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
12/22/92 13:30	301	1.4097	
12/22/92 13:30	301	1.4319	
12/23/92 9:00	301	1.4278	
12/23/92 9:00	301	1.4482	
12/23/92 14:00	302	1.4296	
12/24/92 10:30	302	1.6647	
12/24/92 12:30	303	1.7137	
12/26/92 13:00	305	1.5786	
12/26/92 13:00	305	1.592	
12/27/92 12:30	306	1.7492	
12/28/92 16:30	307	1.8337	
12/29/92 11:00	307	1.8306	
12/29/92 14:00	308	1.9111	
12/30/92 10:00	308	1.7103	
12/30/92 10:00	308	1.737	
12/30/92 14:30	309	1.6235	
12/31/92 11:00	309	1.7843	
12/31/92 11:00	309	1.786	
12/31/92 12:00	310	1.8394	
1/2/93 12:00	312	1.7936	
1/3/93 15:00	313	1.8168	
1/4/93 10:30	313	1.7758	
1/4/93 14:30	314	1.8247	
1/5/93 9:30	314	1.8631	
1/5/93 14:00	315	1.9109	
1/6/93 9:30	315	1.8138	
1/6/93 14:30	316	1.9815	
1/7/93 10:00	316	1.5343	
1/7/93 13:30	317	1.7192	
1/8/93 9:30	317	1.7814	
1/8/93 13:30	318	1.914	
1/9/93 12:00	319	1.7045	
1/10/93 14:30	320	1.7875	
1/10/93 14:30	320	1.8025	
1/11/93 11:00	320	1.7678	
1/11/93 14:30	321	1.7978	
1/12/93 11:30	321	1.7936	
1/12/93 14:30	322	1.8711	
1/13/93 8:30	322	1.8843	
1/14/93 10:30	323	1.8185	
1/14/93 10:30	323	1.8304	
1/15/93 10:30	324	1.7026	
1/26/93 16:00	336	1.6113	
1/27/93 10:30	336	1.7704	
1/28/93 9:30	337	1.5202	
1/28/93 9:30	337	1.5345	
1/29/93 8:30	338	1.6467	
1/31/93 11:00	340	1.8247	
2/1/93 10:30	341	1.3396	
2/1/93 13:30	342	1.2957	
2/2/93 9:15	342	1.4397	
2/2/93 14:00	343	1.5513	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
2/2/93 14:00	343	1.5699	
2/3/93 9:30	343	1.4791	
2/3/93 15:00	344	1.6999	
2/4/93 10:00	344	1.6072	
2/4/93 15:00	345	1.6442	
2/5/93 10:00	345	1.4052	
2/5/93 15:30	346	1.4386	
2/7/93 15:00	348	1.4259	
2/8/93 10:30	348	1.4884	
2/8/93 15:00	349	1.5218	
2/9/93 10:30	349	1.5409	
2/10/93 13:00	351	1.5087	
2/12/93 10:00	352	1.6616	
2/12/93 16:00	353	1.5827	
2/13/93 11:30	353	1.456	
2/14/93 19:00	355	1.4312	
2/15/93 9:00	355	1.5789	
2/15/93 9:00	355	1.5977	
2/15/93 14:30	356	1.5595	
2/16/93 9:00	356	1.5877	
2/16/93 14:30	357	1.6269	
2/17/93 9:00	357	1.6026	
2/17/93 15:00	358	1.6382	
2/18/93 10:00	358	1.5178	
2/18/93 14:00	359	1.6849	
2/19/93 9:30	359	1.6442	
2/19/93 14:00	360	1.6936	
2/24/93 11:00	364	1.6428	
2/24/93 15:50	365	1.5557	
2/25/93 9:30	365	1.549	
2/25/93 13:55	366	1.5625	
2/26/93 9:30	366	1.5147	
2/26/93 13:30	367	1.5109	
2/27/93 13:00	368	1.5324	
2/28/93 10:00	368	1.521	
2/28/93 15:45	369	1.4712	
3/1/93 10:00	369	1.4754	
3/1/93 15:00	370	1.4397	
3/2/93 8:30	370	1.5168	
3/2/93 15:00	371	1.4131	
3/3/93 10:00	371	1.4946	
3/3/93 14:00	372	1.4653	
3/3/93 14:00	372	1.4742	
3/4/93 10:00	372	1.6004	
3/4/93 13:30	373	1.5631	
3/5/93 9:30	373	1.5244	
3/5/93 14:30	374	1.527	
3/6/93 10:00	374	1.4495	
3/6/93 16:30	375	1.4416	
3/7/93 13:00	376	1.6502	
3/8/93 10:30	376	1.6108	
3/8/93 16:00	377	1.5819	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
3/9/93 10:00	377	1.5555	
3/9/93 14:00	378	1.6203	
3/10/93 9:30	378	1.5722	
3/10/93 13:00	379	1.5667	
3/11/93 8:00	379	1.5444	
3/11/93 12:00	380	1.2235	
3/12/93 10:00	380	1.5068	
3/12/93 14:00	381	1.4225	
3/13/93 13:00	382	1.3996	
3/14/93 15:00	383	1.4674	
3/15/93 14:00	384	1.604	
3/16/93 9:30	384	1.6008	
3/16/93 15:30	385	1.545	
3/17/93 9:00	385	1.6345	
3/17/93 13:00	386	1.7256	
3/17/93 13:00	386	1.7381	
3/18/93 9:00	386	1.7705	
3/18/93 13:00	387	1.7727	
3/19/93 10:30	387	1.7007	
3/19/93 10:30	387	1.7257	
3/19/93 14:00	388	1.7036	
3/20/93 9:30	388	1.5547	
3/20/93 13:00	389	1.5921	
3/21/93 9:30	389	1.5445	
3/21/93 9:30	389	1.5737	
3/22/93 9:30	390	1.5101	
3/22/93 15:00	391	1.5387	
3/23/93 11:00	391	1.5504	
3/23/93 15:00	392	1.5687	
3/24/93 7:00	392	1.5403	
3/24/93 16:00	393	1.5759	
3/24/93 16:00	393	1.5862	
3/25/93 9:30	393	1.747	
3/25/93 13:30	394	1.5452	
3/26/93 9:00	394	1.341	
3/26/93 13:00	395	1.3774	
3/27/93 11:00	395	1.5175	
3/28/93 9:00	396	1.4988	
3/28/93 13:00	397	1.477	
3/29/93 10:00	397	1.6001	
3/29/93 18:33	398	1.5588	
3/30/93 9:00	398	1.5991	
3/30/93 17:00	399	1.4739	
3/31/93 10:30	399	1.5896	
3/31/93 13:00	400	1.5968	
4/1/93 10:00	400	1.5166	
4/1/93 13:00	401	1.583	
4/2/93 10:30	401	1.542	
4/2/93 14:00	402	1.553	
4/3/93 13:00	403	1.6673	
4/4/93 14:00	404	1.6507	
4/12/93 10:08	411	1.45	

DATES	DAYS	O2 INFLU (%)	CO2INFLU.XLS
4/12/93 12:15	412	1.46	
4/13/93 11:00	412	1.6	
4/13/93 15:30	413	1.57	
4/14/93 11:00	413	1.36	
4/14/93 11:00	413	1.36	
4/14/93 14:00	414	1.52	
4/15/93 10:00	414	1.53	
4/15/93 17:00	415	1.55	
4/16/93 10:30	415	1.6	
4/16/93 10:33	415	1.57	
4/16/93 16:30	416	1.47	
4/17/93 11:00	416	1.49	
4/17/93 13:00	417	1.45	
4/18/93 12:00	418	1.57	
4/19/93 7:30	418	1.54	
4/19/93 14:30	419	1.65	
4/20/93 10:30	419	1.47	
4/20/93 10:30	419	1.53	
4/20/93 13:00	420	1.49	
4/21/93 11:00	420	1.54	
4/21/93 15:00	421	1.66	
4/24/93 12:00	424	1.37	
4/25/93 18:45	425	1.64	

DATES

DAYS

O2 EFFLU (%)

CO2EFFLU.XLS

WSRC DATA & CHART

FILE NAME:

CO2EFFLU.XLS

CO2 EFFLUENT CONCENTRATION

DATES	DAYS	EFFLUENT CO2 %
2/26/92 0:00	0	0
3/11/92 16:45	15	1.4
3/12/92 7:50	15	2.1
3/12/92 15:45	16	2.1
3/13/92 7:45	16	1.8
3/13/92 16:45	17	1.3
3/14/92 7:45	17	2
3/14/92 15:45	18	1.6
3/15/92 7:30	18	1.3
3/15/92 16:15	19	1.1
3/16/92 7:35	19	1.2
3/16/92 15:50	20	1.7
3/17/92 7:50	20	2
3/17/92 16:30	21	1.9
3/18/92 7:55	21	1.7
3/18/92 17:00	22	1.8
3/19/92 7:50	22	1.7
3/19/92 14:30	23	1.5
3/20/92 8:05	23	2
3/20/92 17:00	24	0.8
3/21/92 7:45	24	1.4
3/21/92 16:00	25	1.9
3/22/92 7:45	25	1.77
3/22/92 15:45	26	1.49
3/23/92 7:45	26	2.09
3/23/92 7:50	26	2.08
3/24/92 8:00	27	1.87
3/24/92 8:00	27	2.13
3/24/92 16:45	28	2.06
3/25/92 8:00	28	1.79
3/25/92 16:30	29	1.4
3/26/92 7:00	29	2.24
3/26/92 16:00	30	2
3/27/92 8:00	30	0.14
3/27/92 17:00	31	1.83
3/28/92 14:00	32	0.94
3/29/92 6:50	32	1.09
3/29/92 14:55	33	1.53
4/2/92 15:00	37	1.77
4/2/92 17:00	37	1.81
4/2/92 19:00	37	1.33
4/3/92 8:00	37	1.7
4/3/92 16:05	38	1.8
4/4/92 6:45	38	1.4
4/5/92 8:00	39	1.45

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
4/5/92 15:00	40	1.22	
4/6/92 9:00	40	2.25	
4/6/92 9:05	40	2.33	
4/6/92 16:00	41	1.95	
4/7/92 9:00	41	2.29	
4/7/92 16:00	42	2.36	
4/8/92 8:55	42	2.2	
4/8/92 16:00	43	1.56	
4/9/92 7:00	43	2.04	
4/9/92 7:00	43	2.06	
4/9/92 16:00	44	2.06	
4/11/92 7:00	45	2.28	
4/11/92 13:00	46	2.11	
4/12/92 7:00	46	2.4	
4/12/92 13:55	47	2.3	
4/13/92 8:00	47	2.47	
4/13/92 16:00	48	2.56	
4/14/92 8:00	48	2.47	
4/14/92 16:00	49	2.59	
4/15/92 8:00	49	2.68	
4/15/92 15:00	50	2.39	
4/16/92 7:00	50	2.56	
4/16/92 15:55	51	2.02	
4/17/92 8:00	51	1.88	
4/17/92 14:00	52	1.91	
4/18/92 7:00	52	2.1	
4/18/92 7:05	52	1.99	
4/18/92 13:00	53	1.99	
4/19/92 7:00	53	1.56	
4/19/92 14:05	54	1.59	
4/20/92 9:00	54	2.31	
4/20/92 16:00	55	2.54	
4/21/92 9:00	55	2.66	
4/21/92 16:00	56	2.58	
4/22/92 8:00	56	2.7	
4/22/92 8:05	56	2.6	
4/23/92 9:00	57	2.21	
4/23/92 16:00	58	1.01	
4/24/92 9:00	58	2.36	
4/24/92 14:00	59	2.38	
4/26/92 8:00	60	2.31	
4/26/92 14:00	61	2.41	
4/27/92 8:00	61	2.61	
4/27/92 15:00	62	2.53	
4/28/92 8:00	62	2.65	
4/28/92 15:00	63	2.36	
4/29/92 8:00	63	2.53	
4/29/92 15:00	64	2.76	
4/30/92 8:00	64	2.6	
4/30/92 16:00	65	2.1	
5/1/92 8:00	65	2.1	
5/1/92 15:00	66	2.69	

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
5/2/92 8:00	66	2.37	
5/3/92 8:00	67	2.25	
5/4/92 8:00	68	2.55	
5/4/92 15:00	69	2.57	
5/5/92 8:00	69	2.55	
5/5/92 15:00	70	2.38	
5/6/92 8:00	70	2.61	
5/6/92 16:00	71	2.56	
5/7/92 7:00	71	2.1883	
5/7/92 15:00	72	2.41	
5/8/92 7:00	72	2.43	
5/8/92 7:00	72	2.54	
5/8/92 13:00	73	2.27	
5/8/92 13:00	73	2.28	
5/9/92 8:00	73	2.44	
5/10/92 8:00	74	2.28	
5/11/92 8:00	75	2.51	
5/11/92 14:00	76	2.4	
5/12/92 8:00	76	2.5	
5/12/92 14:00	77	2.36	
5/12/92 14:00	77	2.41	
5/13/92 8:00	77	2.5	
5/13/92 14:00	78	2.54	
5/14/92 7:00	78	2.2894	
5/14/92 15:00	79	2.41	
5/14/92 15:00	79	2.44	
5/15/92 7:00	79	2.21	
5/15/92 14:00	80	2.21	
5/16/92 10:00	80	2.14	
5/17/92 8:00	81	2.31	
5/18/92 17:05	83	2.28	
5/19/92 8:00	83	2.43	
5/19/92 15:00	84	2.32	
5/19/92 15:00	84	2.33	
5/20/92 8:00	84	2.29	
5/20/92 15:00	85	2.58	
5/21/92 8:00	85	2.44	
5/21/92 14:30	86	1.8	
5/21/92 14:30	86	1.85	
5/22/92 7:00	86	1.78	
5/22/92 13:05	87	1.64	
5/22/92 13:05	87	1.64	
5/23/92 8:00	87	1.84	
5/24/92 8:00	88	1.49	
5/25/92 8:00	89	1.4866	
5/25/92 17:00	90	1.7051	
5/26/92 8:00	90	1.92	
5/26/92 14:00	91	1.94	
5/26/92 14:00	91	2	
5/27/92 8:00	91	1.86	
5/27/92 13:00	92	1.83	
5/28/92 8:00	92	2.03	

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
5/28/92 16:00	93	1.64	
5/28/92 16:00	93	1.68	
5/29/92 6:05	93	1.88	
5/29/92 12:00	94	1.85	
5/29/92 12:00	94	1.89	
5/30/92 8:00	94	1.74	
5/31/92 10:00	95	1.88	
6/1/92 8:00	96	1.91	
6/1/92 14:00	97	1.94	
6/2/92 8:00	97	1.8945	
6/2/92 14:00	98	1.8164	
6/2/92 14:00	98	1.8366	
6/3/92 8:00	98	1.9012	
6/3/92 14:00	99	1.8355	
6/4/92 8:00	99	1.92	
6/4/92 14:00	100	1.76	
6/4/92 14:00	100	1.83	
6/5/92 8:00	100	1.73	
6/6/92 16:00	102	1.91	
6/7/92 11:00	102	1.81	
6/8/92 8:00	103	1.3225	
6/10/92 8:00	105	1.836	
6/10/92 8:00	105	1.8705	
6/10/92 14:00	106	1.8238	
6/11/92 8:00	106	1.8472	
6/11/92 14:00	107	1.647	
6/12/92 8:00	107	2.1813	
6/12/92 8:00	107	2.3988	
6/12/92 12:00	108	1.6964	
6/13/92 12:00	109	2.2747	
6/13/92 12:00	109	2.3055	
6/14/92 13:00	110	2.4631	
6/15/92 9:30	110	2.5229	
6/15/92 15:00	111	2.1038	
6/16/92 8:00	111	2.46	
6/16/92 14:00	112	2.34	
6/17/92 8:00	112	2.31	
6/17/92 8:00	112	2.44	
6/17/92 13:00	113	2.29	
6/18/92 8:00	113	1.02	
6/18/92 16:25	114	2.328	
6/19/92 9:08	114	2.568	
6/19/92 12:15	115	2.642	
6/23/92 8:30	118	2.31	
6/23/92 13:30	119	2.453	
6/24/92 8:00	119	2.446	
6/24/92 8:00	119	2.468	
6/24/92 12:00	120	2.564	
6/25/92 8:00	120	2.0679	
6/25/92 12:30	121	1.5869	
6/26/92 8:30	121	1.84	
6/26/92 8:30	121	1.88	

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
6/26/92 13:00	122	2.3364	
6/27/92 11:30	122	2.1108	
6/28/92 11:30	123	2.2726	
6/28/92 11:30	123	2.3535	
6/29/92 7:30	124	2.2169	
6/29/92 13:00	125	2.3334	
6/30/92 9:00	125	2.0538	
6/30/92 14:00	126	2.316	
7/1/92 9:30	126	2.2459	
7/1/92 14:00	127	1.9467	
7/1/92 14:00	127	1.955	
7/2/92 8:00	127	2.1105	
7/2/92 13:30	128	2.323	
7/3/92 8:00	128	2.3246	
7/3/92 12:00	129	2.2757	
7/3/92 12:00	129	2.398	
7/4/92 11:00	129	2.2776	
7/5/92 11:00	130	2.181	
7/6/92 9:00	131	2.1752	
7/6/92 15:00	132	2.0653	
7/7/92 9:30	132	2.28	
7/7/92 9:30	132	2.1746	
7/8/92 8:00	133	2.19	
7/8/92 15:00	134	2.37	
7/9/92 9:00	134	1.99	
7/9/92 14:00	135	1.89	
7/10/92 10:00	135	2.25	
7/10/92 13:00	136	2.14	
7/11/92 9:30	136	2.13	
7/12/92 10:15	137	2.3	
7/13/92 8:40	138	2.48	
7/13/92 13:35	139	2.52	
7/14/92 8:40	139	2.62	
7/14/92 13:25	140	2.38	
7/15/92 8:11	140	2.392	
7/15/92 8:11	140	2.462	
7/15/92 13:31	141	2.47	
7/16/92 8:10	141	1.45	
7/16/92 13:58	142	2.41	
7/17/92 9:45	142	2.4913	
7/17/92 13:29	143	2.368	
7/18/92 8:05	143	2.2116	
7/19/92 8:02	144	2.2966	
7/20/92 7:45	145	2.3683	
7/20/92 13:00	146	2.3965	
7/21/92 9:10	146	2.0229	
7/21/92 13:30	147	2.3212	
7/21/92 13:30	147	2.5555	
7/22/92 8:39	147	2.4196	
7/22/92 13:35	148	2.4468	
7/23/92 8:02	148	1.7446	
7/23/92 13:30	149	2.1404	

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
7/24/92 7:50	149	2.1553	
7/24/92 13:00	150	2.2793	
7/25/92 8:10	150	2.3382	
7/26/92 9:30	151	1.2349	
7/27/92 8:00	152	1.06	
7/27/92 13:00	153	1.9803	
7/28/92 10:00	153	1.7822	
7/28/92 12:00	154	2.0849	
7/29/92 9:00	154	1.3959	
7/29/92 9:00	154	1.67	
7/29/92 13:00	155	0.548	
7/30/92 7:00	155	1.5199	
7/30/92 12:00	156	1.2397	
7/31/92 9:00	156	0.4811	
7/31/92 9:00	156	0.5401	
7/31/92 12:00	157	2.4255	
8/6/92 8:00	162	2.0411	
8/6/92 12:00	163	2.1779	
8/7/92 8:20	163	1.699	
8/7/92 13:22	164	2.3555	
8/8/92 9:30	164	2.1424	
8/9/92 8:00	165	2.0257	
8/10/92 7:35	166	2.1707	
8/10/92 7:35	166	2.194	
8/10/92 13:20	167	2.32	
8/11/92 8:00	167	2.12	
8/11/92 13:00	168	2.48	
8/12/92 7:50	168	2.09	
8/12/92 12:26	169	2.3023	
8/12/92 12:26	169	2.3236	
8/13/92 8:20	169	1.2836	
8/13/92 15:00	170	2.0233	
8/14/92 8:15	170	1.6663	
8/14/92 13:00	171	2.3392	
8/14/92 13:00	171	2.3512	
8/15/92 8:20	171	2.223	
8/16/92 8:15	172	2.211	
8/17/92 9:00	173	2.042	
8/17/92 9:00	173	2.0447	
8/17/92 14:30	174	2.2439	
8/18/92 8:25	174	2.2919	
8/18/92 14:00	175	2.2837	
8/19/92 8:10	175	2.1291	
8/20/92 17:00	177	2.2013	
8/21/92 8:00	177	1.53	
8/21/92 13:30	178	2.12	
8/22/92 9:30	178	2.15	
8/23/92 10:00	179	2.2816	
8/24/92 8:16	180	2.0977	
8/24/92 13:30	181	2.4817	
8/25/92 8:50	181	2.0564	
8/25/92 14:00	182	2.3066	

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
8/26/92 8:30	182	2.0981	
8/26/92 13:30	183	2.3196	
8/27/92 8:00	183	1.6446	
8/27/92 13:30	184	2.1776	
8/28/92 8:30	184	2.097	
8/28/92 13:00	185	2.1605	
8/29/92 9:00	185	2.2	
8/30/92 9:00	186	2.2051	
8/31/92 8:30	187	2.1336	
8/31/92 13:00	188	2.2166	
9/1/92 21:25	189	2.0631	
9/2/92 9:31	189	2.1646	
9/2/92 9:31	189	2.1992	
9/2/91 13:30	-176	2.127	
9/3/92 8:00	190	2.2407	
9/3/92 13:40	191	2.3418	
9/4/92 8:30	191	2.3396	
9/4/92 12:00	192	2.2385	
9/5/92 13:00	193	2.2145	
9/5/92 13:00	193	2.2633	
9/6/92 9:55	193	2.1858	
9/7/92 10:00	194	2.288	
9/7/92 12:30	195	2.2335	
9/8/92 8:55	195	2.2806	
9/8/92 8:55	195	2.2989	
9/8/92 12:55	196	2.3847	
9/9/92 8:55	196	2.0848	
9/9/92 12:00	197	2.2334	
9/10/92 8:00	197	2.1573	
9/10/92 12:00	198	2.0899	
9/10/92 12:00	198	2.1034	
9/11/92 8:00	198	2.1972	
9/11/92 12:00	199	2.2592	
9/12/92 9:00	199	2.21	
9/13/92 9:00	200	2.14	
9/14/92 9:00	201	1.6269	
9/14/92 9:00	201	1.7038	
9/14/92 16:05	202	2.2223	
9/15/92 9:00	202	2.2096	
9/15/92 13:00	203	2.4521	
9/16/92 9:40	203	2.2741	
9/16/92 13:45	204	2.3236	
9/16/92 13:45	204	2.3365	
9/17/92 8:30	204	1.8588	
9/17/92 14:00	205	2.1006	
9/18/92 9:00	205	1.7169	
9/18/92 13:30	206	1.9457	
9/19/92 9:00	206	1.9481	
9/20/92 10:30	207	1.968	
9/21/92 10:00	208	1.94	
9/21/92 14:00	209	2.14	
9/22/92 8:30	209	2.03	

DATES	DAYS	O2 EFFLU (%)	CO2EFFLU.XLS
9/22/92 13:00	210	2.02	
9/23/92 8:30	210	2.17	
9/23/92 13:00	211	2	
9/24/92 8:15	211	1.52	
9/24/92 13:00	212	2.0257	
9/24/92 13:00	212	2.05	
9/27/92 8:30	214	2.3389	
9/28/92 8:00	215	2.255	
9/28/92 13:00	216	2.3096	
9/29/92 8:30	216	2.2018	
9/29/92 14:30	217	2.0832	
10/1/92 9:30	218	2.23	
10/1/92 14:00	219	2.22	
10/2/92 8:30	219	1.83	

DATES

DAYS

H4 INFLU (%)

CH4INFLU.XLS

WSRC DATA & CHART

FILE NAME:

CH4INFLU.XLS

CH4 INFLUENT CONCENTRATIONS

DATES	DAYS	INNFLUENT CH4 (%)
2/26/92 0:00	0	0
4/28/92 8:00	62	0.058
4/28/92 15:00	63	0.05
4/29/92 8:00	63	0.0524
4/29/92 15:00	64	0.0562
4/30/92 8:00	64	0.0661
4/30/92 16:00	65	0.0497
5/1/92 8:00	65	0.0579
5/1/92 15:00	66	0.0746
5/2/92 8:00	66	0.0722
5/3/92 8:00	67	0.0723
5/4/92 8:00	68	0.081
5/4/92 15:00	69	0.0827
5/5/92 8:00	69	0.0854
5/5/92 15:00	70	0.0802
5/6/92 8:00	70	0.0868
5/6/92 16:00	71	0.089
5/7/92 7:00	71	0.0759
5/7/92 15:00	72	0.0751
5/8/92 7:00	72	0.0848
5/8/92 7:00	72	0.0852
5/8/92 13:00	73	0.1511
5/8/92 13:00	73	0.1521
5/9/92 8:00	73	0.0878
5/10/92 8:00	74	0.084
5/11/92 8:00	75	0.0905
5/11/92 14:00	76	0.0837
5/12/92 8:00	76	0.0907
5/12/92 14:00	77	0.0875
5/12/92 14:00	77	0.089
5/13/92 8:00	77	0.0927
5/13/92 14:00	78	0.094
5/14/92 7:00	78	0.0905
5/14/92 15:00	79	0.0874
5/14/92 15:00	79	0.0878
5/15/92 7:00	79	0.0888
5/15/92 14:00	80	0.0902
5/16/92 10:00	80	0.0874
5/17/92 8:00	81	0.0955
5/17/92 8:05	81	2.39
5/18/92 17:05	83	0.1029
5/19/92 8:00	83	0.0989
5/19/92 15:00	84	0.0949
5/19/92 15:00	84	0.0968
5/20/92 8:00	84	0.0942

DATES

DAYS

H4 INFLU (%)

CH4INFLU.XLS

5/20/92 15:00	85	0.104
5/21/92 8:00	85	0.1
5/21/92 14:30	86	0.0724
5/21/92 14:30	86	0.076
5/22/92 7:00	86	0.0711
5/22/92 13:05	87	0.1587
5/22/92 13:05	87	0.1647
5/23/92 8:00	87	0.0892
5/24/92 8:00	88	0.0749
5/25/92 8:00	89	0.0687
5/25/92 17:00	90	0.0752
5/26/92 8:00	90	0.0912
5/26/92 14:00	91	0.0821
5/26/92 14:00	91	0.0855
5/27/92 8:00	91	0.0878
5/27/92 13:00	92	0.0831
5/28/92 8:00	92	0.0979
5/28/92 16:00	93	0.0774
5/28/92 16:00	93	0.0798
5/29/92 6:05	93	0.0949
5/29/92 12:00	94	0.0934
5/29/92 12:00	94	0.0939
5/30/92 8:00	94	0.0902
5/31/92 10:00	95	0.0993
6/1/92 8:00	96	0.1018
6/2/92 8:00	97	0.1089
6/2/92 14:00	98	0.1041
6/2/92 14:00	98	0.1048
6/3/92 8:00	98	0.1141
6/3/92 14:00	99	0.1112
6/4/92 8:00	99	0.12
6/4/92 14:00	100	0.11
6/4/92 14:00	100	0.11
6/5/92 8:00	100	0.11
6/6/92 16:00	102	0.13
6/7/92 11:00	102	0.12
6/8/92 8:00	103	0.089
6/10/92 8:00	105	0.127
6/10/92 8:00	105	0.1284
6/10/92 14:00	106	0.1295
6/11/92 8:00	106	0.1321
6/11/92 14:00	107	0.1146
6/12/92 8:00	107	0.1583
6/12/92 8:00	107	0.1745
6/12/92 12:00	108	0.1032
6/13/92 12:00	109	0.1712
6/13/92 12:00	109	0.1745
6/14/92 13:00	110	0.1939
6/15/92 9:30	110	0.1998
6/15/92 15:00	111	0.1691
6/16/92 8:00	111	0.2
6/16/92 14:00	112	0.2

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
6/17/92 8:00	112	0.2	
6/17/92 8:00	112	0.2	
6/17/92 13:00	113	0.19	
6/18/92 8:00	113	0.05	
6/18/92 16:25	114	0.203	
6/19/92 9:08	114	0.226	
6/19/92 12:15	115	0.242	
6/23/92 8:30	118	0.208	
6/23/92 13:30	119	0.219	
6/24/92 8:00	119	0.22	
6/24/92 8:00	119	0.222	
6/24/92 12:00	120	0.232	
6/25/92 8:00	120	0.1721	
6/25/92 12:30	121	0.1181	
6/26/92 8:30	121	0.143	
6/26/92 8:30	121	0.145	
6/26/92 13:00	122	0.2147	
6/27/92 11:30	122	0.1856	
6/28/92 11:30	123	0.2225	
6/28/92 11:30	123	0.2265	
6/29/92 7:30	124	0.2152	
6/29/92 13:00	125	0.2271	
6/30/92 9:00	125	0.199	
6/30/92 14:00	126	0.2385	
7/1/92 14:00	127	0.1967	
7/1/92 14:00	127	0.1974	
7/2/92 8:00	127	0.2122	
7/2/92 13:30	128	0.2325	
7/3/92 8:00	128	0.2434	
7/3/92 12:00	129	0.2355	
7/3/92 12:00	129	0.2584	
7/4/92 11:00	129	0.2422	
7/5/92 11:00	130	0.2396	
7/6/92 9:00	131	0.2456	
7/6/92 13:00	132	0.2325	
7/7/92 9:30	132	0.25	
7/8/92 8:00	133	0.24	
7/8/92 15:00	134	0.27	
7/9/92 9:00	134	0.21	
7/9/92 14:00	135	0.27	
7/10/92 10:00	135	0.26	
7/10/92 13:00	136	0.25	
7/11/92 9:30	136	0.24	
7/12/92 10:15	137	0.26	
7/13/92 8:40	138	0.3	
7/13/92 13:35	139	0.3	
7/14/92 8:40	139	0.312	
7/14/92 13:25	140	0.279	
7/15/92 8:11	140	0.2841	
7/15/92 8:11	140	0.2914	
7/15/92 13:31	141	0.295	
7/16/92 8:10	141	0.14	

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
8/17/92 9:00	173	0.4141	
8/17/92 14:30	174	0.4659	
8/18/92 8:25	174	0.4814	
8/18/92 14:00	175	0.5114	
8/19/92 8:10	175	0.4504	
8/20/92 17:00	177	0.4958	
8/21/92 8:00	177	0.3	
8/21/92 13:30	178	0.45	
8/22/92 9:30	178	0.47	
8/23/92 10:00	179	0.5096	
8/24/92 8:16	180	0.4742	
8/24/92 13:30	181	0.5416	
8/25/92 8:50	181	0.477	
8/25/92 14:00	182	0.5291	
8/26/92 8:30	182	0.486	
8/26/92 13:30	183	0.5435	
8/27/92 8:00	183	0.3418	
8/27/92 13:30	184	0.5395	
8/28/92 8:30	184	0.5086	
8/28/92 13:00	185	0.5335	
8/29/92 9:00	185	0.51	
8/30/92 9:00	186	0.53	
8/31/92 8:30	187	0.5225	
8/31/92 13:00	188	0.5512	
9/1/92 21:25	189	0.5297	
9/2/92 13:30	190	0.5528	
9/2/92 9:31	189	0.5542	
9/2/92 9:31	189	0.5596	
9/3/92 8:00	190	0.5702	
9/3/92 13:40	191	0.6061	
9/4/92 8:30	191	0.5932	
9/4/92 12:00	192	0.5758	
9/5/92 13:00	193	0.5768	
9/5/92 13:00	193	0.5868	
9/6/92 9:55	193	0.5841	
9/7/92 10:00	194	0.6235	
9/7/92 12:30	195	0.6062	
9/8/92 8:55	195	0.6367	
9/8/92 8:55	195	0.6392	
9/8/92 12:55	196	0.6585	
9/9/92 8:55	196	0.6009	
9/9/92 12:00	197	0.6468	
9/10/92 8:00	197	0.6368	
9/10/92 12:00	198	0.633	
9/10/92 12:00	198	0.6363	
9/11/92 8:00	198	0.6737	
9/11/92 12:00	199	0.6714	
9/12/92 9:00	199	0.67	
9/13/92 9:00	200	0.67	
9/14/92 9:00	201	0.4706	
9/14/92 9:00	201	0.4923	
9/14/92 16:05	202	0.7124	

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
9/15/92 9:00	202	0.7158	
9/15/92 13:00	203	0.7953	
9/16/92 9:40	203	0.7625	
9/16/92 13:45	204	0.775	
9/16/92 13:45	204	0.7765	
9/17/92 8:30	204	0.6103	
9/17/92 14:00	205	0.7191	
9/18/92 9:00	205	0.5649	
9/18/92 13:30	206	0.6704	
9/19/92 9:00	206	0.6742	
9/20/92 10:30	207	0.705	
9/21/92 10:00	208	0.71	
9/21/92 14:00	209	0.77	
9/22/92 8:30	209	0.75	
9/22/92 12:00	210	0.74	
9/23/92 8:30	210	0.82	
9/23/92 13:00	211	0.78	
9/24/92 8:15	211	0.5	
9/24/92 13:00	212	0.76	
9/24/92 13:00	212	0.77	
9/27/92 8:30	214	0.8999	
9/28/92 8:00	215	0.8751	
9/28/92 13:00	216	0.9152	
9/29/92 8:30	216	0.8796	
9/29/92 14:30	217	0.8369	
10/1/92 9:30	218	0.9	
10/1/92 14:00	219	0.9	
10/2/92 8:30	219	0.72	
10/2/92 13:00	220	0.54	
10/3/92 9:30	220	0.88	
10/4/92 8:28	221	0.9344	
10/5/92 8:30	222	0.56	
10/5/92 13:30	223	0.92	
10/6/92 9:00	223	0.95	
10/6/92 9:00	223	0.95	
10/6/92 13:30	224	0.98	
10/7/92 9:00	224	0.96	
10/7/92 13:30	225	0.98	
10/8/92 9:30	225	0.94	
10/8/92 14:00	226	1	
10/9/92 9:00	226	0.93	
10/9/92 13:30	227	1.04	
10/10/92 10:30	227	0.98	
10/11/92 9:30	228	0.9943	
10/15/92 10:00	232	0.9543	
10/15/92 13:00	233	0.9432	
10/15/92 13:00	233	0.9764	
10/16/92 9:00	233	0.8511	
10/16/92 13:00	234	1.0796	
10/17/92 9:23	234	1.0248	
10/18/92 9:30	235	0.9872	
10/19/92 9:30	236	0.9621	

DATES

DAYS

H4 INFLU (%)

CH4INFLU.XLS

10/19/92 9:30	236	0.9819
10/19/92 13:30	237	1
10/20/92 9:30	237	1.0579
10/20/92 13:30	238	0.9796
10/21/92 9:30	238	1.0593
10/21/92 13:00	239	1.1552
10/22/92 9:00	239	1
10/22/92 12:00	240	1.1104
10/23/92 9:30	240	0.8404
10/23/92 14:00	241	1.0148
10/24/92 10:30	241	1.0442
10/24/92 17:00	242	1.0243
10/25/92 9:07	242	1.1044
10/25/92 9:07	242	1.1074
10/25/92 15:00	243	1.0018
10/26/92 9:00	243	1.0237
10/26/92 15:00	244	1.0282
10/27/92 9:00	244	1.048
10/27/92 14:30	245	1.0829
10/28/92 9:07	245	1.0288
10/28/92 13:30	246	1.0082
10/28/92 13:30	246	1.0293
10/29/92 9:00	246	0.929
10/29/92 9:00	246	0.9523
10/29/92 13:00	247	0.9907
10/30/92 10:25	247	1.02
10/30/92 18:00	248	1.04
10/31/92 11:00	248	0.9
11/1/92 14:00	250	1.0216
11/2/92 10:00	250	0.8901
11/2/92 15:00	251	0.9692
11/3/92 9:30	251	0.8744
11/3/92 17:30	252	0.9309
11/4/92 9:33	252	0.9762
11/4/92 14:00	253	0.9652
11/5/92 9:30	253	0.8706
11/5/92 9:30	253	0.8747
11/5/92 13:00	254	0.8973
11/6/92 9:30	254	0.8592
11/6/92 14:00	255	1.0301
11/7/92 9:30	255	0.9
11/8/92 10:30	256	0.9895
11/8/92 10:30	256	1.001
11/9/92 9:30	257	0.94
11/9/92 13:30	258	0.91
11/10/92 10:00	258	0.9566
11/10/92 14:00	259	1.0049
11/11/92 19:32	260	1.02
11/12/92 9:30	260	0.94
11/12/92 9:30	260	0.95
11/12/92 13:00	261	1
11/13/92 9:30	261	0.93

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
11/13/92 13:00	262	1.01	
11/14/92 15:00	263	0.98	
11/15/92 13:00	264	1.04	
11/16/92 9:30	264	0.88	
11/16/92 13:00	265	0.93	
11/17/92 10:00	265	1.44	
11/17/92 10:00	265	1.47	
11/17/92 14:30	266	1.38	
11/18/92 9:00	266	0.93	
11/18/92 13:00	267	0.85	
11/19/92 9:00	267	0.3472	
11/19/92 13:00	268	0.7567	
11/20/92 10:00	268	0.8025	
11/20/92 14:00	269	0.8637	
11/21/92 12:00	270	0.84	
11/21/92 12:00	270	0.86	
11/22/92 12:00	271	0.9	
11/23/92 9:30	271	0.83	
11/23/92 13:00	272	0.87	
11/24/92 9:30	272	0.82	
11/24/92 13:00	273	0.78	
11/25/92 9:30	273	0.76	
11/25/92 9:30	273	0.76	
11/25/92 12:30	274	0.75	
11/27/92 9:00	275	0.5378	
11/27/92 13:00	276	0.6828	
11/28/92 16:00	277	0.82	
11/29/92 12:00	278	0.857	
11/30/92 9:30	278	0.8017	
11/30/92 14:00	279	0.7885	
12/1/92 9:30	279	0.7789	
12/1/92 9:30	279	0.7871	
12/1/92 14:00	280	0.8338	
12/4/92 10:30	282	0.5107	
12/4/92 15:30	283	0.7044	
12/5/92 11:03	283	0.6957	
12/5/92 11:03	283	0.6961	
12/6/92 18:00	285	0.6982	
12/7/92 10:30	285	0.6398	
12/7/92 15:00	286	0.757	
12/7/92 15:00	286	0.7678	
12/8/92 10:00	286	0.7169	
12/9/92 9:30	287	0.4027	
12/9/92 13:30	288	0.6896	
12/10/92 8:30	288	0.4507	
12/10/92 14:00	289	0.6951	
12/11/92 9:00	289	0.6768	
12/11/92 13:30	290	0.7024	
12/12/92 12:00	291	0.6463	
12/12/92 12:00	291	0.6675	
12/14/92 10:00	292	0.66	
12/14/92 15:00	293	0.72	

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
12/15/92 9:30	293	0.72	
12/15/92 13:30	294	0.69	
12/16/92 9:00	294	0.71	
12/16/92 14:00	295	0.66	
12/16/92 14:00	295	0.67	
12/17/92 9:00	295	0.62	
12/17/92 13:00	296	0.6	
12/18/92 9:30	296	0.6	
12/18/92 13:00	297	0.51	
12/19/92 17:30	298	0.67	
12/20/92 10:30	298	0.7	
12/21/92 10:00	299	0.6127	
12/21/92 14:30	300	0.5397	
12/22/92 10:00	300	0.5832	
12/22/92 13:30	301	0.4989	
12/22/92 13:30	301	0.5057	
12/23/92 9:00	301	0.4839	
12/23/92 9:00	301	0.4878	
12/23/92 14:00	302	0.4792	
12/24/92 10:30	302	0.5856	
12/24/92 12:30	303	0.5982	
12/26/92 13:00	305	0.5391	
12/26/92 13:00	305	0.5443	
12/27/92 12:30	306	0.5824	
12/28/92 16:30	307	0.539	
12/29/92 11:00	307	0.5285	
12/29/92 14:00	308	0.5541	
12/30/92 10:00	308	0.4853	
12/30/92 10:00	308	0.4919	
12/30/92 14:30	309	0.4523	
12/31/92 11:00	309	0.5103	
12/31/92 11:00	309	0.5104	
12/31/92 12:00	310	0.5236	
1/2/93 12:00	312	0.5029	
1/3/93 15:00	313	0.5035	
1/4/93 10:30	313	0.4854	
1/4/93 14:30	314	0.4982	
1/5/93 9:30	314	0.5054	
1/5/93 14:00	315	0.5148	
1/6/93 9:30	315	0.4839	
1/6/93 14:30	316	0.5182	
1/7/93 10:00	316	0.3904	
1/7/93 13:30	317	0.4598	
1/8/93 9:30	317	0.4897	
1/8/93 13:30	318	0.5235	
1/9/93 12:00	319	0.4609	
1/10/93 14:30	320	0.4723	
1/10/93 14:30	320	0.4805	
1/11/93 11:00	320	0.4742	
1/11/93 14:30	321	0.4737	
1/12/93 11:30	321	0.4716	
1/12/93 14:30	322	0.4977	

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
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1/13/93 8:30	322	0.4945
1/14/93 10:30	323	0.4744
1/14/93 10:30	323	0.4785
1/15/93 10:30	324	0.4325
1/26/93 16:00	336	0.4053
1/27/93 10:30	336	0.445
1/28/93 9:30	337	0.3647
1/28/93 9:30	337	0.3679
1/29/93 8:30	338	0.414
1/31/93 11:00	340	0.4796
2/1/93 10:30	341	0.3642
2/1/93 13:30	342	0.345
2/2/93 9:15	342	0.3872
2/2/93 14:00	343	0.4197
2/2/93 14:00	343	0.4239
2/3/93 9:30	343	0.4017
2/3/93 15:00	344	0.459
2/4/93 10:00	344	0.433
2/4/93 15:00	345	0.4491
2/5/93 10:00	345	0.3823
2/5/93 15:30	346	0.3966
2/7/93 15:00	348	0.3956
2/8/93 10:30	348	0.4066
2/8/93 15:00	349	0.4099
2/9/93 10:30	349	0.4186
2/10/93 13:00	351	0.4166
2/12/93 10:00	352	0.46
2/12/93 16:00	353	0.4378
2/13/93 11:30	353	0.397
2/14/93 19:00	355	0.3975
2/15/93 9:00	355	0.4305
2/15/93 9:00	355	0.4352
2/15/93 14:30	356	0.4259
2/16/93 9:00	356	0.4352
2/16/93 14:30	357	0.4501
2/17/93 9:00	357	0.4397
2/17/93 15:00	358	0.4456
2/18/93 10:00	358	0.4167
2/18/93 14:00	359	0.4641
2/19/93 9:30	359	0.447
2/19/93 14:00	360	0.4633
2/24/93 11:00	364	0.4535
2/24/93 15:50	365	0.4331
2/25/93 9:30	365	0.4326
2/25/93 13:55	366	0.4346
2/26/93 9:30	366	0.4318
2/26/93 13:30	367	0.43
2/27/93 13:00	368	0.4279
2/28/93 10:00	368	0.4339
2/28/93 15:45	369	0.4176
3/1/93 10:00	369	0.4203
3/1/93 15:00	370	0.4117

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
3/2/93 8:30	370	0.4378	
3/2/93 15:00	371	0.4083	
3/3/93 10:00	371	0.4283	
3/3/93 14:00	372	0.423	
3/3/93 14:00	372	0.4256	
3/4/93 10:00	372	0.4646	
3/4/93 13:30	373	0.4507	
3/5/93 9:30	373	0.4758	
3/5/93 14:30	374	0.4332	
3/6/93 10:00	374	0.4248	
3/6/93 16:30	375	0.4244	
3/7/93 13:00	376	0.4758	
3/8/93 10:30	376	0.4758	
3/8/93 16:00	377	0.4648	
3/9/93 10:00	377	0.4526	
3/9/93 14:00	378	0.467	
3/10/93 9:30	378	0.4689	
3/10/93 13:00	379	0.4594	
3/11/93 8:00	379	0.4503	
3/11/93 12:00	380	0.3398	
3/12/93 10:00	380	0.4429	
3/12/93 14:00	381	0.4225	
3/13/93 13:00	382	0.4181	
3/14/93 15:00	383	0.4266	
3/15/93 14:00	384	0.4634	
3/16/93 9:30	384	0.4713	
3/16/93 15:30	385	0.4538	
3/17/93 9:00	385	0.4832	
3/17/93 13:00	386	0.5186	
3/17/93 13:00	386	0.522	
3/18/93 9:00	386	0.5331	
3/18/93 13:00	387	0.5316	
3/19/93 10:30	387	0.5015	
3/19/93 10:30	387	0.5124	
3/19/93 14:00	388	0.5125	
3/20/93 9:30	388	0.4741	
3/20/93 13:00	389	0.4776	
3/21/93 9:30	389	0.4672	
3/21/93 9:30	389	0.4764	
3/22/93 9:30	390	0.4662	
3/22/93 15:00	391	0.4708	
3/23/93 11:00	391	0.4734	
3/23/93 15:00	392	0.4768	
3/24/93 7:00	392	0.4937	
3/24/93 16:00	393	0.5019	
3/24/93 16:00	393	0.5047	
3/25/93 9:30	393	0.5346	
3/25/93 13:30	394	0.4808	
3/26/93 9:00	394	0.4316	
3/26/93 13:00	395	0.4524	
3/27/93 11:00	395	0.478	
3/28/93 9:00	396	0.4721	

DATES	DAYS	H4 INFLU (%)	CH4INFLU.XLS
3/28/93 13:00	397	0.4652	
3/29/93 10:00	397	0.4939	
3/29/93 18:33	398	0.4921	
3/30/93 9:00	398	0.5096	
3/30/93 17:00	399	0.4532	
3/31/93 10:30	399	0.4976	
3/31/93 13:00	400	0.4963	
4/1/93 10:00	400	0.4617	
4/1/93 13:00	401	0.5027	
4/2/93 10:30	401	0.5162	
4/2/93 14:00	402	0.4864	
4/3/93 13:00	403	0.5252	
4/4/93 14:00	404	0.5132	
4/12/93 10:08	411	0.46	
4/12/93 12:15	412	0.46	
4/13/93 11:00	412	0.51	
4/13/93 15:30	413	0.5	
4/14/93 11:00	413	0.43	
4/14/93 11:00	413	0.43	
4/14/93 14:00	414	0.48	
4/15/93 10:00	414	0.5	
4/15/93 17:00	415	0.5	
4/16/93 10:30	415	0.55	
4/16/93 10:33	415	0.54	
4/16/93 16:30	416	0.47	
4/17/93 11:00	416	0.48	
4/17/93 13:00	417	0.47	
4/18/93 12:00	418	0.5	
4/19/93 7:30	418	0.5	
4/19/93 14:30	419	0.53	
4/20/93 10:30	419	0.47	
4/20/93 10:30	419	0.49	
4/20/93 13:00	420	0.48	
4/21/93 11:00	420	0.51	
4/21/93 15:00	421	0.53	
4/24/93 12:00	424	0.43	
4/25/93 18:45	425	0.54	

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END