Final Report

IMPROVEMENT OF THE EMISSION INVENTORY FOR REACTIVE ORGANIC GASES AND OXIDES OF NITROGEN IN THE SOUTH COAST AIR BASIN VOLUME II: APPENDIXES A THROUGH H

SYSAPP-85/082

May 1985

Prepared by

William Rogers Oliver

Systems Applications, Inc.
101 Lucas Valley Road
San Rafael, California 94903

and

Scott H. Peoples

Radian Corporation
10395 Old Placerville Road
Sacramento, California 95827

Prepared for

Air Resources Board
Sacramento, California 95812
Contract No. A2-076-32

60258 ef 84052(b)

VOLUME II

Appendix A	SURVEY QUESTIONNAIRE FORMS.....	A-1
Appendix B	DOCUMENTATION OF RECOMMENDED CHANGES TO THE EMISSION INVENTORY FOR STATIONARY INTERNAL COMBUSTION ENGINES.....	B-1
Appendix C	MODIFIED MBTH METHOD FOR ALDEHYDE ANALYSIS.....	C-1
Appendix D	UNREDUCED ANALYTICAL RESULTS USED TO CREATE NEW SPECIATION PROFILES.....	D-1
Appendix E	SPECIATION PROFILES DEVELOPED IN THIS STUDY.....	E-1
Appendix F	SIX EXAMPLES OF RECOMMENDED CHANGES TO THE INVENTORY....	F-1
Appendix G	OLD INVENTORY CATEGORY CODES ASSIGNED IN THIS STUDY.....	G-1
Appendix H	LISTING OF REVISED POINT SOURCES.....	H-1

Appendix A

SURVEY QUESTIONNAIRE FORMS

STATE OF CALIFORNIA

GEORGE DEUKMEJIAN, *Governor*

AIR RESOURCES BOARD
1102 Q STREET
P.O. BOX 2815
SACRAMENTO, CA 95812

(916) 445-0753

Radian Corporation, through a subcontract with Systems Applications, Inc., is under contract to the Research Division of the California Air Resources Board (ARB) to improve the 1979 reactive organic gas (ROG) and nitrogen oxide (NOx) emissions inventory for the South Coast Air Basin. To assist Systems Applications and Radian in this improvement of the 1979 inventory, ARB has furnished emissions inventory information for a number of facilities. Systems Applications' and Radian's contract with the ARB calls for a survey of these facilities, including your facility. The objective of this survey is to confirm existing emissions-related data for 1979 for your facility and to obtain additional data that will be used to improve the quality of the 1979 ROG and NOx emissions inventory.

This request for data is a formal one made pursuant to the following specified provisions of the California Health and Safety Code. Sections 39003, 39701 and 39703 charge the ARB with conducting research into the causes of and solutions to air pollution, including the collection of data on the control of non-vehicular emissions and the consequences of alternative solutions to specific air pollution problems. Section 39607 requires the State Board to inventory sources of air pollution and to determine the kinds and quantities of air pollutants. Section 39703(d) authorizes the ARB to award contracts for air pollution research projects, and Section 39705 requires the Research Screening Committee to make recommendations with regard to all air pollution research contracts funded by the State, including those conducted under contract with the State Board. Section 41511 authorizes the ARB to require the owner or operator of any air pollution emission source to take such action as the State Board may determine to be reasonable for the determination of the amount of such emissions. Pursuant to this authority, the ARB has adopted Section 91100 of Title 17, California Administrative Code, which authorizes the Executive Officer or his/her authorized representative to require source owners to provide data necessary for the State Board to carry out the purposes of Division 26 of the Health and Safety Code. Finally, Health and Safety Code

Section 39600 authorizes the State Board to do such acts as may be necessary for the proper execution of the powers and duties imposed upon the ARB. The ARB has determined that obtaining responses to the Systems Applications/Radian survey is necessary for the Board to carry out its responsibilities under the provisions of law cited above.

Pursuant to state and federal law, actual air pollution emissions data, whether or not the data constitute trade secrets, cannot be held confidential by the ARB, but other data such as privileged processes, costs, formulas, etc. constituting trade secrets are eligible for confidential treatment. The information provided in response to the survey can be released to the public upon request unless you request trade secret classification or confidential treatment on some other basis in writing (in accordance with the California Public Records Act, Government Code Sections 6250 et seq., and the ARB's public records regulations, Title 17, California Administrative Code, Sections 91000 et seq.). All such requests should be accompanied by an adequate justification for the trade secret designation, which should be as detailed as possible (without disclosing the trade secret). Information supplied to ARB, other than emissions data, which is found to be trade secret or otherwise entitled to confidential treatment will be kept confidential (although such information may be forwarded to the U.S. Environmental Protection Agency, which protects trade secrets in accordance with federal law). Please note that Radian and Systems Applications have formally agreed with the ARB not to disclose any data designated confidential except to, and as directed by, the ARB.

Further information on ARB policy may be obtained from the ARB research contract manager, Mr. Joseph Pantalone, whose telephone number is (916) 323-1535. The ARB contract number for the Systems Applications/Radian contract is A2-076-32. Questions regarding the legal aspects of this request may be directed to the ARB's Office of Legal Affairs, (916) 322-2884.

Please complete and return the survey forms within ten days. Please return the questionnaire forms to:

Mr. Dean Delleney
Radian Corporation
3401 LaGrande Blvd.
Sacramento, CA 95823

All questions concerning the survey should be directed to Mr. Delleney or to Mr. Scott Peoples, also of Radian Corporation, both of whom can be reached at (916) 421-8700.

Thank you very much for your cooperation and assistance.

Sincerely yours,

John R Holmes

John R. Holmes, Ph.D.
Chief, Research Division

Attachment

RADIAN
CORPORATION

INTRODUCTION

The purpose of the enclosed questionnaire(s) are to: (1) confirm information currently in the California Air Resources Board (ARB) 1979 emission inventory for your facility; and (2) obtain additional information concerning the 1979 operation of your facility.

As was discussed in the cover letter, the objective of this ARB study is to improve the 1979 emissions inventory for the South Coast Air Basin for reactive organic gases (ROG) and nitrogen oxides (NO_x). This emission inventory is mainly used in air quality modeling studies for planning purposes. Therefore, changes to the 1979 emission inventory for your facility should have no effect on your facility beyond improving the accuracy of the inventory.

We request that the questionnaire be carefully reviewed and completed by an individual that is knowledgeable about your facility. Each questionnaire form that is received by your facility should be completed to the best of your ability and returned to Radian regardless of how applicable the questionnaire is to your facility. Your cooperation in complying with this request is essential to the success of this study and is appreciated.

The questionnaires were developed based on facility and source types. Therefore, your facility questionnaire may contain a set of several questionnaire forms covering a variety of processes and activities that might be included at your facility.

Please complete each form in your questionnaire set to the best of your ability. The forms have been designed to try to identify each process or activity of interest at your facility. However, in some instances it is difficult to describe a particular process or activity in a standard emission inventory format and, therefore, some effort may be required on your

INTRODUCTION (continued)

part to relate the processes or activities identified in your questionnaire to the operation of your facility in 1979. Your efforts to resolve any discrepancies or inconsistencies will greatly improve the quality of the inventory.

Thank you for your cooperation and assistance in this study.

RADIAN CORPORATION

QUESTIONNAIRE FORM I-A

Miscellaneous Emissions

The purpose of this questionnaire is to investigate emissions from a source or sources whose description or categorization in the ARB's 1979 emission inventory is unspecific. Part 1 of this questionnaire is related to the facility where the source or sources of interest are located. This is followed by one copy of Part 2 for each source of interest. Each source of interest is identified using whatever information was available from the 1979 emission inventory. This identification is then followed by questions concerning the source.

Please provide the data requested and answer the questions presented below. All data and answers provided should be for the calendar year 1979. If a question does not apply to your facility please write DNA after the question. If the information needed to answer the question is not available write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

Part 1

1) Facility Name: _____

2) Facility I.D. No: _____

RADIAN CORPORATION

Form I-A

Part 2

A source that currently exists in the 1979 emission inventory is identified below. The information that is filled in for the first section is from the 1979 inventory. This information, particularly the Permit ID, should allow you to identify the source of interest. If any of this information is incorrect, provide the necessary modifications. Please provide all data and answers for the calendar year 1979.

Please fill in all blanks.

1) Application I.D.: _____

Permit I.D.: _____

Source Classification Code (SCC): _____

SCC Description: _____

_____

Process Description: _____

_____

Device I.D.: _____

Process Rate: _____

NO_x Emission Factor: _____

NO_x Emission Rate: _____

TOG Emission Factor: _____

TOG Emission Rate: _____

2) Provide a detailed description of the source that is identified above. _____

_____

_____

_____

_____

_____

3) Provide any parameters such as throughput, capacity, fuel usage, etc. that could be used to estimate emissions from this source for the calendar year 1979. _____

_____

_____

_____

4) Were emissions from the source described above controlled by any air pollution control system in 1979?

_____ Yes _____ No

5) If the answer to (4) is yes, provide an estimate of the control efficiency of the system. Also provide information that could be used to estimate the control efficiency (i.e., a description of the system, make and model, operating hours or conditions, etc.) _____

_____

_____

6) Have any emissions tests been performed on the source? Are you aware of any emissions tests that have been performed on similar sources at different facilities? If so, provide information about and data from these tests. _____

_____

_____

_____

_____

RADIAN
CORPORATION

QUESTIONNAIRE FORM I-B

Surface Coating

The purpose of this questionnaire is to investigate surface coating activities at your facility in 1979. Please provide the data requested and answer all the questions below. All data and responses should be for the calendar year 1979. If a question does not apply to your facility, write DNA after the question. If the information needed to answer a question is not available, write N/A after the question.

Part 1 of the questionnaire requests information for your entire facility while Part 2 requests information for specific pieces of equipment or operations that are identified in the California Air Resources Board's 1979 emission inventory.

PART 1

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Briefly describe the nature of your business. _____
   _____
   _____
   _____

Form I-B

PART 1 (continued)

5) Were any coatings, degreasers, or solvents (see Table 1) used at your facility in 1979?

_____ Yes _____ No

6) If the answer to 4) is yes, enter the quantity of each coating, degreaser, or solvent used in 1979 next to it's name in Table 1. Add any additional coatings, degreasers, or solvents used at your facility in 1979 to the list in Table 1. If the data is not available, estimate usage and indicate that it is an estimate. (The list of coatings, degreasers, and solvents in Table 1 is consistent with the list of common organics that the South Coast AQMD uses for determining emission fees.)

TABLE 1

Coatings, Degreasers, and Solvents

Coatings

Adhesives
Enamel
Lacquer
Primers
Sealer
Solvents
Stains (Spirits)
Varnish
Water Based
Water Soluble

Degreasers

1,1,1 Trichloroethane
Perchloroethylene
Methylene Chloride
Petroleum (Stoddard)

Solvent

Acetone
Benzene
Butyl Cellosolve
Cellosolve Acetate
Chevron 1100
Chevron 1200
Diamine
Dimethyl Formamide
Dowanol EE
Dowanol EB
Electro Solvent
Epoxy Thinner
Ethyl Alcohol (Commercial)
Freon 11
Freon 113
Freon 12
Furfuryl Alcohol
Hexylene Alcohol
Hexane
Isopropyl Alcohol
Kerosene
Lactol Spirits
Methanol

Solvent (continued)

MEK
Mineral Spirits
Naphtha
Pemsol
Rho-Chem 231
Rho-Chem 47
Rho-Thane
Rho-Tri
Shell 360
Toluene
Turco Cleaning Solvent
VM&P Naphtha
Var Sol #1
West Chem Solvent #3
Xylene

RADIAN CORPORATION

Form I-B

PART 2

A source that currently exists in the 1979 emission inventory is identified below. The information that is filled in for the first section is from the 1979 inventory. This information, particularly the Permit ID, should allow you to identify the source of interest. If any of this information is incorrect, provide the necessary modifications. Please provide all data and answers for the calendar year 1979.

Please fill in all blanks.

1) Application I.D.: _____
Permit I.D.: _____
Source Classification Code (SCC): _____
SCC Description: _____
_____
Process Description: _____
_____
Device I.D.: _____
Process Rate: _____
Total Organic Gas Emission Factor: _____
Total Organic Gas Emission Rate: _____

2) Provide a detailed description of the source identified above. _____
_____
_____
_____

3) Provide 1979 usage data for the solvents and/or surface coatings used with the source described above. _____
_____
_____
_____

PART 2 (continued)

4) Were emissions from the source described above controlled by any air pollution control system in 1979? (Examples of control systems include mist eliminators, condensers, carbon adsorption, and incineration.)

_____ Yes _____ No

5) If the answer to 4) is yes, briefly describe the air pollution control system and indicate the percent control efficiency of the system. _____

_____

_____

_____

How was this control efficiency determined?

_____ source test
_____ estimate
_____ other (please specify)
_____ engineering calculation
_____ vendor specification

6) If source tests have been performed for organic compound emissions please provide a copy of the results or a reference for obtaining the test results. _____

_____

_____

_____

PART 2 (continued)

7) Are any of the organics from the solvents or surface coatings recycled?

_____ Yes _____ No

If yes, how much? _____ gal or _____ percent

8) Are any of the organics from the solvents or surface coatings disposed of as liquids?

_____ Yes _____ No

If yes, how much? _____ gal or _____ percent

RADIAN
CORPORATION

QUESTIONNAIRE FORM I-C

Facility Specific Questions

As part of our investigations to improve the 1979 emission inventory, Radian has reviewed the 1979 emission fee data that your facility submitted to the South Coast Air Quality Management District and the contents of the 1979 emission inventory for your facility. The review of this information has led to the questions and data requests below. Please provide the data requested and answer the questions for the calendar year 1979. If a question does not apply to your facility please write DNA after the question. If the information needed to answer the question is not available, write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Briefly describe the nature of your business.

5)

Form I-C

RADIAN
CORPORATION

QUESTIONNAIRE FORM I-D

Emissions from Storage Tanks

The purpose of this questionnaire is to investigate emissions from sources that are listed in the ARB's 1979 emission inventory as storage tanks with unspecified contents. In order to improve the 1979 emission inventory, the contents of these tanks need to be specified, and emission calculations need to be documented. The questionnaire begins with identification of the sources of interest. The identifying information includes the Permit I.D.'s and emission rates that are currently listed in the inventory for each source of interest. This identification is followed by some general questions about the facility where the sources of interest are located.

It is expected that each source of interest, identified by a Permit I.D., consists of one or more storage tanks. Please complete the attached forms and calculate emissions for each storage tank that is included in the identified sources. The forms that are attached are Form B-6A for floating roof tanks and Form B-6B for fixed roof tanks. These forms were developed by the South Coast Air Quality Management District.

Please provide the data requested and answer the questions presented below. All data and answers provided should be for the calendar year 1979. If a question does not apply to your facility please write DNA after the question. If the information needed to answer the question is not available write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

RADIAN CORPORATION

Form I-D

The following sources currently exist in the ARB's 1979 emission inventory. All of them are identified in the inventory as storage tanks with unspecified contents.

Application I.D.	Permit I.D.	Total Organic Gas (TOG) Emission Rate (ton/yr)

1) Facility Name: _____

2) Facility I.D. No: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Provide the address of the facility where the sources identified on page 2 are located. _____

_____

_____

_____

5) Briefly describe the nature of business that is conducted at the facility identified in (4). _____

_____

_____

_____

6) Please complete the attached forms (Form B-6A and/or Form B-6B) for each tank that is included in the sources identified on page 2. In addition, please provide a list of the tanks (by tank number) that are included in each of the Permit I.D.'s shown on page 2.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
FOR CALENDAR YEAR 1979

FORM B-6A: FLOATING ROOF (EXT. AND INT.) TANK CALCULATION SHEET**

COMPANY NAME: _____

1. Tank No.										
2. Product										
3. Reid Vapor Pressure, psia										
4. Ave. Stock Stor. Temp., ^{o}F, (T_S)										
5. True Vapor Pressure, psia, (P)										
6. Tank Diameter, ft., (D)										
7. Type Floating Roof Seal										
8. Shell Construction										
9. Wind Speed Exponent, (n)										
10. Ave. Wind Velocity, mi/hr, (V)										
11. Seal Factor, (K_S)										
12. Product Factor, (K_C)										
13. Vapor Molecular Wt., lb/lb mole, (M_V)										
14. Clingage Factor, bbl/1000 ft^2, (C)										
15. Throughput, bbl/yr, (Q)										
16. Density of Liquid Stock, lb/gal, (W_L)										
17. Secondary Seal Factor (E_F)										
18. Vapor Pressure Function, (P*)										
19. Standing Loss, lb/yr, (L_S)										
20. Withdrawal Loss, lb/yr, (L_W)										
21. Total Loss, lbs/yr										

**See Instructions

EQ. I: STANDING STORAGE LOSS

$$L_S = K_S V^n P^* D M_V K_C E_f$$

Where:

L_S = *standing storage loss (lb/yr)*

EQ. II: WITHDRAWAL LOSS

$$L_W = \frac{(0.943)\ QCW_L}{D}$$

Where:

L_W = *withdrawal loss (lb/yr)*

Sum of Total Losses
This Sheet _____ lbs/yr

FORM B-6A1: INSTRUCTIONS FOR FLOATING ROOF TANK CALCULATIONS

Space No.

1. List tank number
2. Designate product type by letter as per the following: A-Gasoline; B-Aviation gasoline; C-Light naphtha; D-Jet fuel; E-Diesel fuel; F-Kerosine; G-Turbine fuel; H-Crude oil; I-Recovered oil; J-Pure hydrocarbons; Other organic compounds - specify.
3. List Reid vapor pressure.
4. List average annual storage temperature (T_S). If not known, use Table 2 on Form B-6A2.
5. List true vapor pressure at T_S.
6. List tank diameter in feet.
7. Designate type of floating roof seal system by number and letter as per numbering sequence in Table 1 on Form B-6A2 (EX. for a riveted tank with a mechanical shoe primary seal and a rim-mounted secondary seal, use I-C).
8. For shell construction, choose from: R=Riveted shell; W=Welded shell.
9. For wind speed exponent (n), use Table 1 on Form B-6A2.
10. For average wind velocity (V), use Table 5 on Form B-6A2.
11. For seal factor (K_S), use Table 1 on Form B-6A2.
12. For product factor (K_C) use table 3 on Form B-6A2.
13. For vapor molecular weight (M_V), use AP-42 Table 4.3-1 on (Form B-6B2).
14. For clingage factor (C), use Table 4 on Form B-6A2.
15. List throughput in bbl/yr.
16. For product liquid density (W_l), use AP-42 Table 4.3-1 on (Form B-6B2).
17. For secondary seal factor (E_f) use table 1 on Form B-6A2.
18. Obtain the value of the vapor pressure function (P*) from Form B-6A3.
19. Calculate the standing storage loss (L_S), using Equation I.
20. Calculate the withdrawal loss (L_W), using Equation II.
21. Calculate the total tank loss by adding L_S and L_W.

For further information, refer to API Bulletin 2517 (1980) and AP-42, Section 4.3. April, 1981.

Form B-6A2

Table I

FLOATING ROOF TANK EMISSION FACTORS

Summary of Seal Factors (K_s) Wind Speed Exponents (n) and Secondary Seal Factors (E_f).

SEAL TYPE Welded or Riveted Tanks External Floating Roofs	PETROLEUM LIQUIDS(1)			VOLATILE ORGANICS(2)		
	K_s	n	E_f(2)	K_s	n	E_f
1. Mechanical shoe primary seal						
a. Primary only	1.2	1.5	1.0	1.2	1.5	1.0
b. Shoe-mounted secondary	0.8	1.2	1.0	1.2	1.5	0.25
c. Rim-mounted secondary	0.2	1.0	1.0	1.2	1.5	0.25
2. Liquid-mounted resilient filled (tube) primary seal						
a. Primary only	1.1	1.0	1.0	1.1	1.0	1.0
b. Weather shield	0.8	0.9	1.0	1.1	1.0	1.0
c. Rim-mounted secondary	0.7	0.4	1.0	1.1	1.0	0.25
3. Vapor-mounted resilient filled (tube) primary seal(3)						
a. Primary only	1.2	2.3	1.0	1.2	2.3	1.0
b. Weather shield	0.9	2.2	1.0	1.2	2.3	1.0
c. Rim-mounted secondary	0.2	2.6	1.0	1.2	2.3	0.25
INTERNAL FLOATING ROOFS(2)						
4. a. Single seal	0.7	0.4	1.0	0.7	0.4	1.0
b. Double seal	0.7	0.4	0.25	0.7	0.4	0.25

Table 2 - Average Annual Stock Storage Temp. (T_s) as a Function of Tank Paint Color(1)

Tank Color	Average Annual Stock Storage Temp. T_s (F)
White	Ta* + 0
Aluminum	Ta + 2.5
Gray	Ta + 3.5
Black	Ta + 5.0

*Ta is average annual ambient temp., °F.

Table 3 - Product Factor, K_c (2)

Product	K_c
Crude Oil	0.4
Petroleum Liquids	1.0
Volatile Organic Liquids	10.0

Table 4 - Avg. Clingage Factor, C (bbl/1000 ft^2)(1)

	Shell Condition			
Product	Lt. Rust	Hvy. Rust	Gunite Lined
Gasoline	0.0015	0.0075	0.15
Crude oil	0.0060	0.030	0.60

Table 5 - Annual wind speed

County	MPH
Los Angeles	6.8
Orange	6.3
Riverside	6.2
San Bernardino	7.4

References:

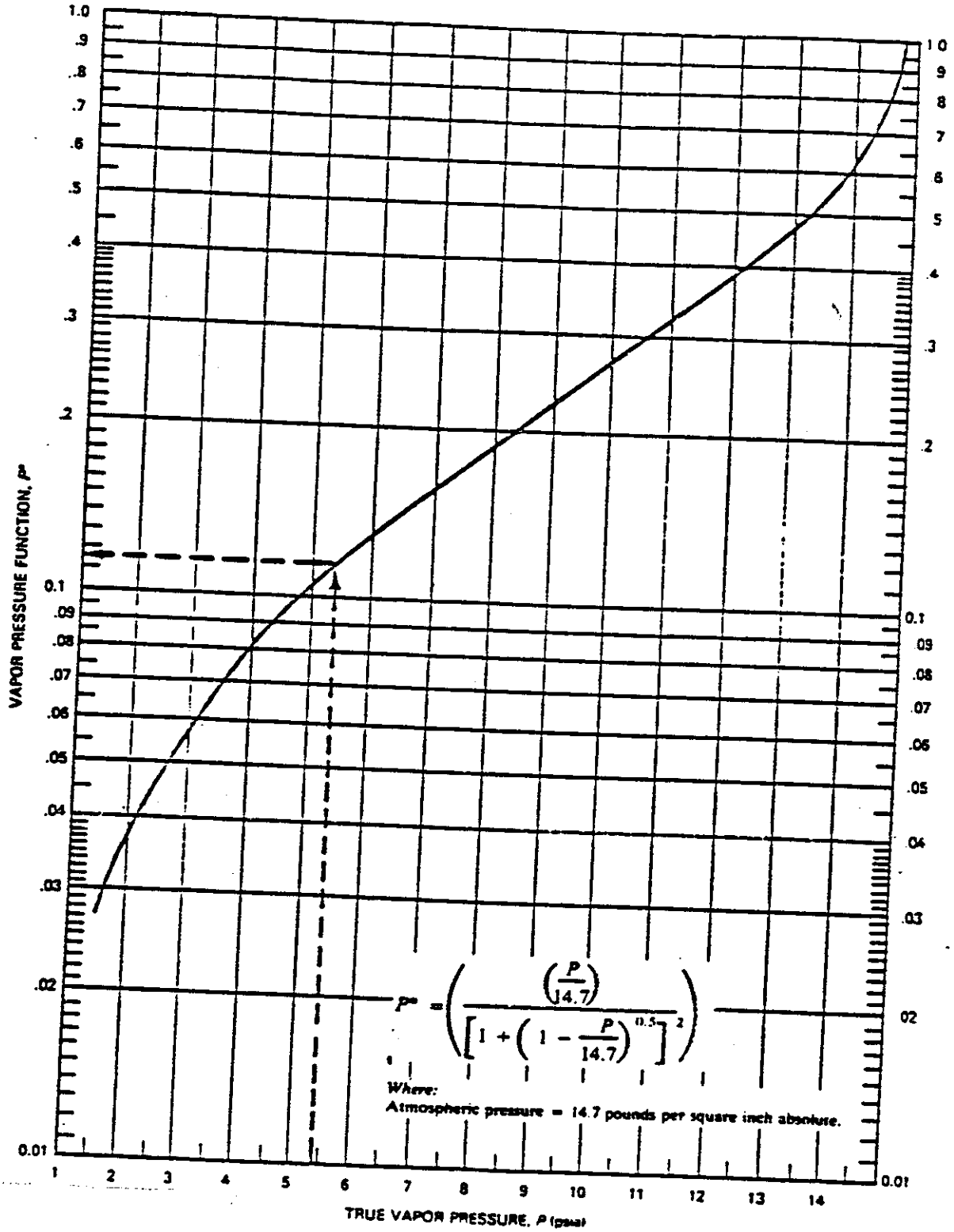
(1) API Bulletin No. 2517 (1980).
(2) AP-42, Supp. No. 12, Section 4.3, April, 1981

Notes:

(3) If tube seal has vapor barriers, use liquid-mounted tube seal factors.

10-82

FORM B-6A3: FLOATING ROOF TANK



NOTE Dashed line illustrates sample problem for P = 5.4 pounds per square inch absolute.

Figure 4.3-8. Vapor pressure function (P*).

FOR CALENDAR YEAR 1982

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

B-6B: FIXED ROOF TANK CALCULATION SHEET*

Y NAME: _____

nk No.											
oduct											
nted to V.R. System (N, V or T)											
erage Storage Temp. ^{o}F											
ue Vapor Pressure, psia, (P)											
nk Diameter, ft., (D)											
por Molecular Wt., lb/lb mole, (M_v											
rage Outage, ft., (H)											
rage Daily Temp. Change, ^{o}F, (T)											
oughput, bbl/yr. (Q)											
novers Per Year											
nover Factor (K_n)											
ustment Factor for Small Tanks (C)											
t Factor (F_p)											
le-Oil Factor (Breathing) (K_{cb})											
le-Oil Factor (Working) (K_{cw})											
thing Loss, lbs/ yr. (L_b)											
ing Loss, lbs/ yr. (L_w)											
l Loss, lbs/yr. (Without Vapor Recovery)											
l Loss, lbs/yr. (With Vapor Recovery)											

ructions Form B-6B1

BREATHING LOSS

$$L_b = 2.26 \times 10^{-2} M_v \left(\frac{P}{14.7-P}\right)^{.68} D^{1.73} H^{.51} T^{.5} F_p C K_{cb}$$

WORKING LOSS

$$L_w = 1.01 \times 10^{-3} M_v P K_n K_{cw} Q$$

Sum of Total Losses This Sheet:

Tanks Without Vapor Recovery: _____ lbs/yr

Tanks With Vapor Recovery : _____ lbs/yr

FORM B-6B1: INSTRUCTIONS FOR FIXED ROOF TANK CALCULATIONS

Space No.	Instructions
1.	List tank number.
2.	Designate product type by letter as per the following: A-Gasoline: B-Avgas: C-Light naphtha: D-Jet fuel: E-Diesel fuel: F-Kerosine: G-Turbine fuel: H-Crude oil: I-Recovered oil: J-Pure hydrocarbons: K-Gas oil: L-Fuel oil: M-Asphalt: Other Organic Compounds - specify.
3.	Indicate by "N" if tank is not vented to control. If vented to vapor recovery, indicate by "V". If vented to thermal oxidizer, indicate by "T".
4.	List average annual storage temp. T_S), if not known use Table 4.3-3. on Form B-6B3.
5.	List true vapor press. (P) at T_S.
6.	List tank diameter in feet.
7.	For vapor molecular weight (M_V), use AP-42 Table 4.3-1. on Form B-6B2.
8.	List average outage (H) in feet. Use (0) if constant level tank.
9.	List average daily temp. change (T), if not known use 20^oF.
10.	List throughput in bbls/yr.
11.	List the number of turnovers per year.
12.	For turnover factor (K_n), use AP-42 Fig. 4.3-7. on Form B-6B3.
13.	For adjustment factor for small tanks (C), use AP-42 Fig. 4.3-4. on Form B-6B3.
14.	For paint factor (F_p), use AP-42 Table 4.3-2. on Form B-6B3.
15.	For crude oil K_{cb} = .65, for gasoline and all other liquids K_{cb} = 1.0.
16.	For crude oil K_{cw} = .84, for gasoline and all other liquids K_{cw} = 1.0.
17.	Calculate the breathing loss (L_b) using Eq. I.
18.	Calculate the working loss (L_w), using Eq. II.
19.	Calculate the total tank loss by adding L_b and L_w.
20.	If the tank is vented to a vapor recovery system, "V", multiply the number in space 19 by .05, if vented to thermal oxidizer, "T", multiply by .01.

FORM B-6B2: PHYSICAL PROPERTIES OF ORGANIC LIQUIDS
(REF: AP-42, SUPP. 12, SEC. 4.3, APRIL 1981

TABLE 4.3-1. PHYSICAL PROPERTIES OF TYPICAL ORGANIC LIQUIDS

Organic Liquid*	Vapor molecular weight @ 60°F	Product density (d), lb/gal @ 60°F	Condensed vapor density (w), lb/gal @ 60°F	True vapor pressure in psia at:						
				40°F	50°F	60°F	70°F	80°F	90°F	100°F
Petroleum Liquids										
Gasoline RVP 13	62	5.6	4.9	4.7	5.7	6.9	8.3	9.9	11.7	13.8
Gasoline RVP 10	66	5.6	5.1	3.4	4.2	5.2	6.2	7.4	8.8	10.5
Gasoline RVP 7	68	5.6	5.2	2.3	2.9	3.5	4.3	5.2	6.2	7.4
Crude oil RVP 5	50	7.1	4.5	1.8	2.3	2.8	3.4	4.0	4.8	5.7
Jet naphtha (JP-4)	80	6.4	5.4	0.8	1.0	1.3	1.6	1.9	2.4	2.7
Jet kerosene	130	7.0	6.1	0.0041	0.0060	0.0085	0.011	0.015	0.021	0.029
Distillate fuel No. 2	130	7.1	6.1	0.0031	0.0045	0.0064	0.0090	0.012	0.016	0.022
Residual oil No. 6	190	7.9	6.4	0.00002	0.00003	0.00004	0.00006	0.00009	0.00013	0.00019
Volatile Organic Liquids										
Acetone	58	6.6	6.6	1.7	2.2	2.9	3.7	4.7	5.9	7.3
Acrylonitrile	53	6.8	6.8	0.8	1.0	1.4	1.8	2.4	3.1	4.0
Benzene	78	7.4	7.4	0.6	0.9	1.2	1.5	2.0	2.6	3.3
Carbon disulfide	76	10.6	10.6	3.0	3.9	4.8	6.0	7.4	9.2	11.2
Carbon tetrachloride	154	13.4	13.4	0.8	1.1	1.4	1.8	2.3	3.0	3.8
Chloroform	119	12.5	12.5	1.5	1.9	2.5	3.2	4.1	5.2	6.3
Cyclohexane	84	6.5	6.5	0.7	0.9	1.2	1.6	2.1	2.6	3.2
1, 2-Dichlorethane	99	10.5	10.5	0.6	0.8	1.0	1.4	1.7	2.2	2.8
Ethylacetate	88	7.6	7.6	0.6	0.8	1.1	1.5	1.9	2.5	3.2
Ethyl alcohol	46	6.6	6.6	0.2	0.4	0.6	0.9	1.2	1.7	2.3
Isopropyl alcohol	60	6.6	6.6	0.2	0.3	0.6	0.7	0.9	1.3	1.8
Methyl alcohol	32	6.6	6.6	0.7	1.0	1.4	2.0	2.6	3.5	4.5
Methylene chloride	85	11.1	11.1	3.1	4.3	5.4	6.8	8.7	10.3	13.3
Methylethyl ketone	72	6.7	6.7	0.7	0.9	1.2	1.5	2.1	2.7	3.3
Methylmethacrylate	100	7.9	7.9	0.1	0.2	0.3	0.6	0.8	1.1	1.4
1, 1, 1-Trichloroethane	133	11.2	11.2	0.9	1.2	1.6	2.0	2.6	3.3	4.2
Trichloroethylene	131	12.3	12.3	0.5	0.7	0.9	1.2	1.5	2.0	2.0
Toluene	92	7.3	7.3	0.2	0.2	0.3	0.4	0.6	0.8	1.0
Vinylacetate	86	7.8	7.8	0.7	1.0	1.3	1.7	2.3	3.1	4.0

* For a more comprehensive listing of volatile organic liquids, see Reference 4.

FORM B-6B3: FACTORS FOR FIXED ROOF TANK CALCULATIONS

Figure 4.3-4. Adjustment factor (C) for small diameter tanks

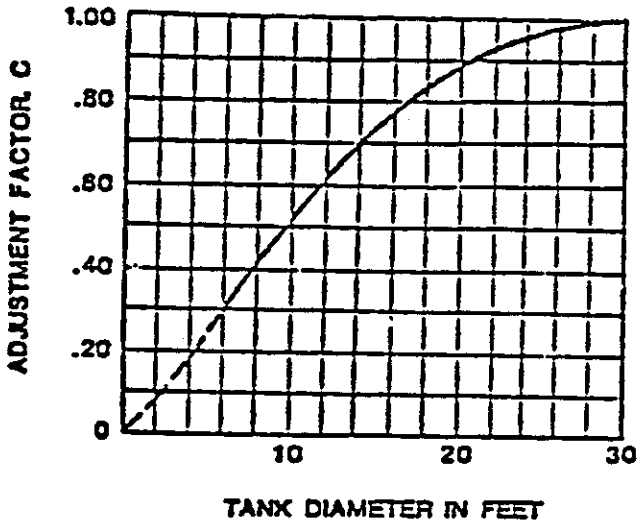


Figure 4.3-7 - Turnover factor (K_n) for fixed roof tanks

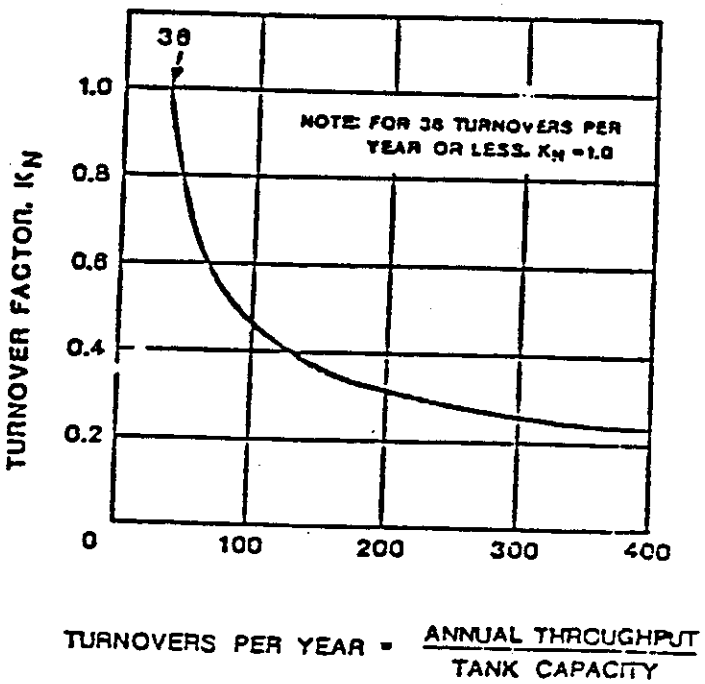


TABLE 4.3-2. PAINT FACTORS FOR FIXED ROOF TANKS

Tank color		Paint factors (F_p)	
		Paint condition	
Roof	Shell	Good	Poor
White	White	1.00	1.15
Aluminum (specular)	White	1.04	1.18
White	Aluminum (specular)	1.16	1.24
Aluminium (specular)	Aluminum (specular)	1.20	1.29
White	Aluminum (diffuse)	1.30	1.38
Aluminum (diffuse)	Aluminum (diffuse)	1.39	1.46
White	Gray	1.30	1.38
Light gray	Light gray	1.33	1.44[a]
Medium gray	Medium gray	1.40	1.58[a]

[a]Estimated from the ratios of the seven preceding paint factors.

Table 4.3-3. AVERAGE STORAGE TEMPERATURE[6] (T_s) AS A FUNCTION OF TANK PAINT COLOR

Tank Color	Average Storage Temperature, T_s (F)
White	T_a* + 0
Aluminum	T_a + 2.5
Gray	T_a + 3.5
Black	T_a + 5.0

*T_a is average ambient temperature in degrees Farenheit.

10-S1

RADIAN
CORPORATION

QUESTIONNAIRE FORM I-E
Surface Coating
Facility Specific Questions

As part of our investigations to improve the 1979 emission inventory, Radian has reviewed the 1979 emission fee data that your facility submitted to the South Coast Air Quality Management District and the contents of the 1979 emission inventory for your facility. The review of this information has led to the questions and data requests below. Please provide the data requested and answer the questions for the calendar year 1979. If a question does not apply to your facility please write DNA after the question. If the information needed to answer the question is not available, write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Were organic compound emissions from your facility controlled by any air pollution control systems in 1979? (Examples of control systems include mist eliminators, condensers, carbon adsorption, and incineration.)

_____ Yes _____ No

5) If the answer to 4) is yes, briefly describe the emission source, the air pollution control system and indicate the percent control efficiency of the system. _____

_____

_____

_____

_____

_____

How was this control efficiency determined?

_____ source test
_____ estimate
_____ other (please specify)
_____ engineering calculation
_____ vendor specification

6) If source tests have been performed for organic compound emissions please provide a copy of the results or a reference for obtaining the test results. _____

_____

_____

_____

7) Are any of the organics from the solvents or surface coatings recycled?

_____ Yes _____ No

If yes, how much? _____ gal or _____ percent

8) Are any of the organics from the solvents or surface coatings disposed of as liquids?

_____ Yes _____ No

If yes, how much? _____ gal or _____ percent

9) _____

Form I-E

TABLE 1

Common Organics

Coatings	Usage (gallons)
Adhesives	
Enamel	
Lacquer	
Primers	
Sealer	
Solvents	
Stains (Spirits)	
Varnish	
Water Based	
Water Soluble	
Degreasers	
1,1,1 Trichloroethane	
Perchloroethylene	
Methylene Chloride	
Petroleum (Stoddard)	
Solvent	
Acetone	
Benzene	
Butyl Cellosolve	
Cellosolve Acetate	
Chevron 1100	
Chevron 1200	
Diamine	
Dimethyl Formamide	
Dowanol EE	
Dowanol EB	
Electro Solvent	
Epoxy Thinner	
Ethyl Alcohol (Commercial)	
Freon 11	
Freon 113	
Freon 12	
Furfuryl Alcohol	
Hexylene Alcohol	
Hexane	
Isopropyl Alcohol	
Kerosene	
Lactol Spirits	
Methanol	

Solvent (continued)	Usage (gallons)
MEK	
Mineral Spirits	
Naphtha	
Pemsol	
Rho-Chem 231	
Rho-Chem 47	
Rho-Thane	
Rho-Tri	
Shell 360	
Toluene	
Turco Cleaning Solvent	
VM&P Naphtha	
Var Sol #1	
West Chem Solvent #3	
Xylene	
Materials	
Charis Black Asphalt	
Contact Cement	
Epoxy Paint or Primer	
Fuel Oil	
Glaze	
Lining, Cans	
Lining, Drum	
Paint Remover	
Polyurethanes	
Quench Oil	
Shellac	
Toner	
Treating Oil	
Urethane	
Wash Coat	
Wax	
FiberglTass Products	
Epoxy (2 component)	
Fiberglass Resin	
Gel Coat	
Plasticizer	
Resins	

RADIAN CORPORATION

Form I-E

TABLE A

Common Solvents and Thinners

	Usage (gallons)
Acetone	
Benzene	
Butyl Acetate	
Butyl Alcohol	
Butyl Cellosolve	
Cellosolve	
Cyclohexane	
Cyclohexanone	
Dimethyl Formamide	
Ethyl Acetate	
Ethyl Alcohol	
Glycol Ether	
Hexane	
Isopropyl Acetate	
Isopropyl Alcohol	
Lactol Spirits	
Methyl Alcohol	
Methyl Cellosolve	
MED (Methyl Ethyl Ketone)	
MIBK (Methyl Isobutyl Ketone)	
Mineral Spirits	
Naptha	
Toluene	
Xylene	
Other _____	_____
_____	_____
_____	_____
_____	_____
_____	_____

RADIAN CORPORATION

QUESTIONNAIRE FORM II-A

Fugitive Emissions

This questionnaire should be completed for all facilities that include fugitive sources such as the sources listed in Table 1. If your facility does not include any of the fugitive sources listed in Table 1, enter zeros for the number of sources. If your facility does include any of these fugitive sources, please complete Table 1 and answer the questions that follow. If a question does not apply to your facility, write DNA after the question. If the information needed to answer a question is not available, write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Complete Table 1 according to the following instructions:

   a) Enter the actual counts or estimates of the number of each source type at your facility for 1979. A copy of South Coast Air Quality Management District Rule 466 is attached to clarify which pumps are subject to the rule.

   b) Indicate whether the numbers are actual counts or estimates in the comments column.

5) Was any type of inspection/maintenance program in effect at your facility in 1979 to control fugitive leaks from the source types you listed in Table 1?

   _____ Yes _____ No

6) If the answer to (5) is yes, briefly describe the program (e.g., frequency of inspection, method of inspection, etc.)

TABLE 1

Source Type	Number of Sources	Comments
1 Valves in Organic Liquid Service		
2 Valves in Fuel Gas or Natural Gas Service		
3 Valves in Organic Gas Service Other Than (2)		
4 Pumps Subject to Rule 466		
5 Pumps Not Subject to Rule 466		
6 Compressors in Organic Gas Service		
7 Pressure Relief Valves Without Rupture Discs That are Vented to the Atmosphere.		

Rule 466. Pumps and Compressors

(Adopted May 7, 1976)
(Amended September 2, 1977)
(Amended December 7, 1979)
(Amended October 3, 1980)

(a) Definitions

(1) For the purpose of this rule:

Volatile Organic Compounds are compounds of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, ethane, methane, 1, 1, 1 trichloroethane, methylene chloride, and trichlorotrifluoroethane, that have a Reid vapor pressure (RVP) greater than 80 mm Hg (1.55 pounds per square inch), or an absolute vapor pressure (AVP) greater than 36 mm Hg (0.7 psi) at 20^0 C.

(2) A Working day is any day of the week except Saturday or Sunday or employee holiday.

(b) Requirements

(1) A person shall not use any pump or compressor handling volatile organic compounds unless such pump or compressor is equipped with adequate seals in good working order or other devices of equal or greater efficiency. Such seals or devices shall be maintained so that there shall not be, during operation or during non-operation:

(A) A leakage of more than three drops per minute.

(B) A visible liquid mist or visible indication of vapor leakage for liquids being pumped which do not condense at ambient conditions.

(C) Any visible indication of leakage at or near the seal/shaft interface for gas compressors.

(2) Any pump or compressor found to leak gaseous volatile organic compounds in excess of 10,000 ppm, measured as hexane, when measured at the potential source with a portable hydrocarbon detection instrument, shall be repaired as follows:

(A) Any pump or compressor having an operable spare permanently connected in the system shall be shut down or the spare pump or compressor placed in service, upon discovery of the leak. Such spare devices shall be inspected with a portable hydrocarbon detection instrument within 48 hours after they have been placed in service. A leaking spare pump or compressor shall be repaired within fifteen working days to a leakage rate of 10,000 ppm or less. If, after repairs are completed, the gaseous leakage rate from the unit in service is greater than 75,000 ppm (10,000 ppm after July 1, 1982) when measured at the source with a portable hydrocarbon detection device, one of the following actions shall be taken:

(i) Vent the emissions to an air pollution control device, or

(ii) Petition the Hearing Board for a variance, or

(iii) Repair or replace the leaking pump or compressor at the next turnaround of the process unit such that the leakage is less than 10,000 ppm. Units to be repaired or replaced at the turnaround shall be tagged to that effect, or otherwise conspicuously marked or coded in a manner easily identifiable to District personnel.

(B) Any pump or compressor having no operable spare permanently connected in the system shall be:

Rule 466 (Cont'd.)

(Amended October 3, 1980)

(i) Repaired within one working day of the discovery of the leak in such a manner that the leakage is minimized; and

(ii) Repaired or replaced at the next scheduled turnaround of the process unit such that the leakage is less than 10,000 ppm.

(iii) If, after repairs are completed, the leakage rate is greater than 75,000 ppm. (10,000 ppm after July 1, 1982) then the leak shall be vented to an air pollution control device, or a petition for variance shall be submitted to the Hearing Board.

(c) Inspection Schedule

Persons subject to this rule shall:

(1) Inspect each operating pump and compressor for any visual leakage once during every 24 hours or operation, except as provided in subsections (c)(2) and (c)(3) of this rule.

(2) Inspect each operating pump and compressor less than three miles from a continuously manned control center for any visual leakage once during every eight-hour period.

(3) Inspect each pump used in crude oil production and pipeline transfer for any visible leakage once each week.

(4) Inspect each pump annually and each compressor quarterly with a portable hydrocarbon detection instrument for gaseous leaks of VOC in excess of 10,000 ppm measured as hexane at the potential source, however, the actual measurement shall be performed per subsection (f)(2).

(5) Reinspect and repair at the end of six months those pumps of subsection (b)(2)(A) found to be leaking at the annual inspection.

(d) Exemptions

The provisions of this rule shall not apply to any pump or compressor which:

(1) Has a driver of less than one (1) horsepower or equivalent rated energy or to any pump or compressor operating at temperatures in excess of 260° C (500° F).

(2) Is vented to an air pollution control system.

(3) Is shut down for maintenance.

(4) Is regulated by Rule 1005.

(5) Handles liquids or gases with a VOC content of 20 percent or less.

(6) Incorporates dual seals with seal oil barriers, or an equivalent design approved by the Executive Officer, provided that the gases emitted from the seal oil reservoir or vented to the atmosphere are in compliance with the requirements of section (b)(2).

(7) Any reciprocating pump used in crude oil production and pipeline transfer is exempt from the provisions of section (b)(2) of this rule.

(e) Recordkeeping

Each operator of a pump or compressor shall maintain records of inspections required by section (c)(4) in a manner specified by the Executive Officer.

(f) Measurement Requirements

(1) The instruments used for the measurement of gaseous volatile organic compounds shall be equated to calibrating with hexane while sampling at one liter per minute.

(2) Actual measurement of gaseous leakage rates may be conducted within a distance of three inches from the potential source, using a concentration versus distance relationship specified by the Executive Officer.

(g) Effective Dates

The provisions of section (b)(2) shall become effective on July 1, 1981.

RADIAN
CORPORATION

QUESTIONNAIRE FORM II-B

Emissions from Vacuum Trucks

This questionnaire is intended to investigate the use of vacuum trucks for removal or transfer of organic liquids in 1979. All uses of vacuum trucks for organic liquids are of interest. These uses include but are not limited to: storage tank cleaning; removal of waste oil or oily water from sumps, pits, etc.; transfer of organic liquids; and cleanup of spills. Please provide answers to all of the questions listed below. If a question does not apply to your facility, write DNA after the question. If the information needed to answer a question is not available, write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Were any vacuum trucks used for organic liquids at your facility in 1979?

_____ Yes _____ No

5) Were the trucks that were used owned by:

_____ your company
_____ a contractor
_____ both of the above

6) List the vacuum truck contractors that were used at your facility in 1979.

_____
_____
_____

7) For each incident in which a vacuum truck was used at your facility in 1979, please list: (1) the organic liquid that was transferred, (2) the amount of liquid that was transferred, and (3) the purpose of the transfer (e.g., tank cleaning, sump emptying, product transfer, etc.). Some examples of organic liquids are: gasoline, light naphtha, jet fuel, diesel fuel, kerosine, turbine fuel, crude oil, weathered crude oil, gas oil, fuel oil, and other (specify). Please specify the organic liquid if it is not on the list above.

RADIAN
CORPORATION

Form II-B

Organic Liquid	Amount Transferred (gal)	Estimated True Vapor Pressure (psia)

RADIAN
CORPORATION

QUESTIONNAIRE FORM II-C

Emissions from Storage Tank Cleaning

This questionnaire is intended to investigate emissions from storage tank cleaning. Storage tanks containing petroleum products, organic chemicals, solvents, and other hydrocarbons are cleaned periodically to prevent contamination of the tank contents. After removing the tank contents, any water left at the bottom of the tank is drained. The vapors remaining in the tank must be withdrawn before personnel may enter the tank to clean it. These vapors are frequently discharged to the atmosphere using an exhaust fan or a steam eductor.

Part 1 of this questionnaire should be completed by all facilities to indicate whether or not storage tank cleaning occurred at your facility in 1979. Part 2 should be completed for each storage tank that was cleaned in 1979. Please complete Part 1 and return the questionnaire even if there were no storage tanks cleaned at your facility in 1979.

If a question does not apply to your facility, write DNA after the question. If the information needed to answer a question is not available, write N/A.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

Form II-C

PART 1

1) Facility Name: _____

2) Facility I.D. No: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Were any storage tanks cleaned at your facility in 1979?

   _____ Yes _____ No

5) If the answer to 4) is yes, how many individual storage tanks were cleaned at your facility in 1979? (If actual data is not available, make the best estimate possible and note that it is an estimate.) _____

_____

PART 2

Complete one copy of Part 2 for each storage tank cleaned in 1979.

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Tank I.D. No. or Designation: _____

4) Tank Contents Prior to Cleaning: Select from the following list: gasoline, light naphtha, jet fuel, diesel fuel, kerosene, turbine fuel, crude oil, weathered crude oil, gas oil, fuel oil, or other (specify). Please make sure to specify the tank contents if they are not included on the list above. _____

_____

5) Reid Vapor Pressure of Contents: _____ psia

6) True Vapor Pressure of Contents: _____ psia

7) Tank Diameter: _____ ft.

8) Tank Height: _____ ft.

9) Tank Capacity: _____ gal or _____ bbl

10) How were the vapors remaining in the tank withdrawn prior to cleaning?

_____ exhaust fan

_____ steam eductor

_____ other (specify)

PART 2 (continued)

11) Indicate the type and amount of cleaning agents or solvents used to clean the tank?

cleaning agent or solvent _____

amount used _____ gal

12) Is the cleaning agent or solvent recovered?

_____ yes _____ no

If yes, how much of the cleaning agent or solvent was (or is normally) recovered?

_____ gal or _____ percent

If no, how much of the cleaning agent or solvent was (or is normally) disposed of as a liquid?

_____ gal or _____ percent

RADIAN
CORPORATION

QUESTIONNAIRE FORM II-D

Industrial Solvent and Surface Coating Usage

Industrial and commercial facilities frequently use solvents (e.g., acetone, stoddard solvent, etc.), surface coatings (e.g., paint, lacquer, primer, etc.) or other organic materials (e.g., resins, plastic coatings, etc.) for a variety of manufacturing, processing, cleaning, degreasing, and maintenance activities. This questionnaire is intended to investigate the types and quantities of solvents and surface coatings used at various facilities in the South Coast Air Basin.

This questionnaire should be completed by all facilities to indicate whether or not solvents or surface coatings were used in 1979. Please complete and return the questionnaire even if there was no solvent or surface coating usage at your facility in 1979.

If a question does not apply to your facility, write DNA after the question. If the information needed to answer a question is not available, write N/A after the question.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

RADIAN
CORPORATION

Form II-D

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

4) Were any surface coatings, degreasers, or solvents (see Table 1) used at your facility in 1979?

   _____Yes _____No

5) If the answer to 4) is yes, enter the quantity of each coating, degreaser, or solvent used in 1979 next to it's name in Table 1. Add any additional coatings, degreasers, or solvents used at your facility in 1979 to the list in Table 1. If the data is not available, estimate usage and indicate that it is an estimate. (The list of coatings, degreasers, and solvents in Table 1 is consistent with the list of common organics that the South Coast AQMD uses for determining emission fees.)

TABLE 1

Common Organics

Coatings

Adhesives
Enamel
Lacquer
Primers
Sealer
Solvents
Stains (Spirits)
Varnish
Water Based
Water Soluble

Degreasers

1,1,1 Trichloroethane
Perchloroethylene
Methylene Chloride
Petroleum (Stoddard)

Solvent

Acetone
Benzene
Butyl Cellosolve
Cellosolve Acetate
Chevron 1100
Chevron 1200
Diamine
Dimethyl Formamide
Dowanol EE
Dowanol EB
Electro Solvent
Epoxy Thinner
Ethyl Alcohol (Commercial)
Freon 11
Freon 113
Freon 12
Furfuryl Alcohol
Hexylene Alcohol
Hexane
Isopropyl Alcohol
Kerosene
Lactol Spirits
Methanol

Solvent (continued)

MEK
Mineral Spirits
Naphtha
Pemsol
Rho-Chem 231
Rho-Chem 47
Rho-Thane
Rho-Tri
Shell 360
Toluene
Turco Cleaning Solvent
VM&P Naphtha
Var Sol #1
West Chem Solvent #3
Xylene

Materials

Charis Black Asphalt
Contact Cement
Epoxy Paint or Primer
Fuel Oil
Glaze
Lining, Cans
Lining, Drum
Paint Remover
Polyurethanes
Quench Oil
Shellac
Toner
Treating Oil
Urethane
Wash Coat
Wax

Fiberglass Products

Epoxy (2 component)
Fiberglass Resin
Gel Coat
Plasticizer
Resins

RADIAN
CORPORATION

QUESTIONNAIRE FORM II-E

Stationary Internal Combustion Engines

The intent of this questionnaire is to determine if there were any stationary internal combustion engines in operation at your facility in 1979 and, if there were, to obtain information on those engines. Part 1 contains questions applicable to your entire facility. Part 2 should be filled out for each engine that was in operation in 1979.

Please return all completed questionnaire forms to:

Dean Delleney
Radian Corporation
3401 La Grande Blvd.
Sacramento, CA 95823

PART 1

1) Facility Name: _____

2) Facility I.D. No.: _____

3) Individual to be contacted with questions regarding this questionnaire form.

   a) Name _____
   b) Title _____
   c) Phone No. _____

Form II-E

4) How many stationary internal combustion engines were in operation at your facility in 1979. _____

5) Please complete a copy of Part 2 of this questionnaire for each engine that was in operation in 1979.

RADIAN CORPORATION

Form II-E

PART 2

Complete one copy of Part 2 for each engine that was in operation in 1979. All data should be for the calendar year 1979.

1) Engine Make and Model: _____

2) Engine I.D. No.: _____

3) Engine Application:
   _____ Emergency Standby Generation
   _____ In-Plant Electrical Generation
   _____ Natural Gas Compression
   _____ Other (Specify) _____

4) Engine Age: _____ Years

5) Rated Horsepower: _____ Brake Horsepower

6) Number of Strokes Per Cycle:
   _____ 2 Stroke _____ 4 Stroke

7) Charging System:
   _____ Naturally Aspirated
   _____ Turbocharged
   _____ Supercharged
   _____ Other (Specify) _____

8) Fuel Type:
   _____ Natural Gas
   _____ Diesel
   _____ Process Gas
   _____ Other (Specify) _____

RADIAN CORPORATION

Form II-E

PART 2 (continued)

9) Higher Heating Value of Fuel:
_____ Btu/ft^3 or _____ Btu/gal

10) Sulfur Content of Fuel:
_____ ppmv or _____ Percent by Weight

11) 1979 Annual Fuel Usage:
_____ 10^6 ft^3/year or _____ 10^3 gal/year

12) Normal Operating Hours:
_____ Hours/Day,
_____ Days/Week, and
_____ Weeks/Year

13) Type and estimated efficiency of air pollution control systems in use in 1979.

System Type:
_____ Timing Retard
_____ Water/Steam Injection
_____ Catalytic Reduction
_____ Other (Specify) _____

Control Efficiency:
_____ Percent NO_x Reduction
_____ Percent CO Reduction
_____ Percent HC Reduction

14) Do you have any emissions data that are specific to this engine? (Please specify and attach a copy of these data.)

_____
_____
_____

Appendix B

DOCUMENTATION OF RECOMMENDED CHANGES TO THE EMISSION INVENTORY FOR STATIONARY INTERNAL COMBUSTION ENGINES

RECOMMENDED CHANGES TO THE POINT SOURCE FILE

This appendix documents recommended changes to the point source file for internal combustion (IC) engines to address two types of conditions:

(1) Facilities for which the original stationary gas-fired IC engine emissions were revised because either the emission factors or the fuel use data were incorrect. The revised emission factors are 3400 lb $NO_x/10^6$ SCF (EPA, 1983) for large engines (greater than 300 horsepower) and 640 lb $NO_x/10^6$ SCF (KVB, 1983) for small engines.

(2) Facilities for which emissions from stationary gas-fired IC engines were not included in the original inventory. For these facilities, emissions from IC engines identified in the ARB survey were added to the point source file.

Recommended changes to the emission inventory are as follows:

(1) Berens Corporation, Facility ID 6753.19: Modify device 717. Change NO_x emission factor from 900 to 640. NO_x emissions change from 20.0 ton/yr to 14.4 ton/yr. Leave all other information the same.

(2) Central Plants, Facility ID 1530.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 18.0 ton/yr to 66.3 ton/yr. Leave all other information the same.

(3) Central Plants, Facility ID 188.30: Modify device 2. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 19.0 ton/yr to 71.4 ton/yr. Leave all other information the same.

(4) Central Plants Facility ID 204.30: Modify device 5. Change NO_x emissions factor from 900 to 3400. NO_x emissions change from 33.6 ton/yr to 127.5 ton/yr. Leave all other information the same.

(5) Central Plants, Facility ID 974.19: Modify device 1. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 16.1 ton/yr to 59.5 ton/yr. Leave all other information the same.

(6) Central Plants, Facility ID 974.19: Modify device 2. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 16.1 ton/yr to 59.5 ton/yr. Leave all other information the same.

84052 6

(7) Central Plants, Facility ID 975.19: Modify device 3. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 17.8 ton/yr to 68.0 ton/yr. Leave all other information the same.

(8) Central Plants, Facility ID 975.19: Modify device 4. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 17.8 ton/yr to 68.0 ton/yr. Leave all other information the same.

(9) Central Plants, Facility ID 975.19: Modify device 5. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 18.7 ton/yr to 71.4 ton/yr. Leave all other information the same.

(10) Central Plants, Facility ID 5135.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 22.0 ton/yr to 81.6 ton/yr. Leave all other information the same.

(11) City of Los Angeles, Facility ID 5175.19: Add device 101 with SCC 2-02-002-02, internal combustion--industrial--natural gas--reciprocating. CO emissions--206.4 ton/yr. SO_2 emissions--0.3 ton/yr. NO_x emissions--1,632.0 ton/yr. TOG emissions--672.0 ton/yr. Operating hours--24 hr/day, 7 day/week, 52 week/yr.

(12) Exxon Co., Facility ID 6746.19: Modify device 2. Change NO_x emission factor as shown at the end of this section. NO_x emissions change from 71.1 ton/yr to 255.3 ton/yr. Leave all other information the same.

(13) Getty Oil Co., Inglewood Field Facility ID 7046.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 37.8 ton/yr to 141.1 ton/yr. Leave all other information the same.

(14) Gulf Oil Refinery, Facility ID 10.19: Modify device 27. Change emissions from 0.0 ton/yr for all pollutants to the following rates: CO emissions--37.7 ton/yr. SO_2 emissions--0.1 ton/yr. NO_x emissions--298.0 ton/yr. TOG emissions--122.7 ton/yr. Leave all other information the same.

(15) Mobil Oil Refinery, Facility ID 4212.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 30.0 ton/yr to 112.2 ton/yr. Leave all other information the same.

(16) Chevron USA, Facility ID 5343.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 6.6 ton/yr to 25.5 ton/yr. Leave all other information the same.

(17) Chevron USA, Facility ID 6607.19: Modify device 1. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 9.6 ton/yr to 35.7 ton/yr. Leave all other information the same.

(18) Chevron USA, Facility ID 6608.19: Modify device 1. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 9.4 ton/yr to 34.0 ton/yr. Leave all other information the same.

(19) Chevron USA, Facility ID 6750.19: Modify device 1. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 19.0 ton/yr to 71.4 ton/yr. Leave all other information the same.

(20) Shell Oil Co., Facility ID 6752.19: Modify device 3. Change NO_x emission factor from 900 to 640. NO_x emissions change from 3.0 ton/yr to 2.2 ton/yr. Leave all other information the same.

(21) Texaco Oil Refinery, Facility ID 23.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 223.2 ton/yr to 843.2 ton/yr. Leave all other information the same.

(22) Union Oil Co., Facility ID 5384.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 119.0 ton/yr to 450.5 ton/yr. Leave all other information the same.

(23) Union Oil Co., Facility ID 5388.19: Modify devices 3 and 4. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 19.0 ton/yr to 73.1 ton/yr for device 3 and from 14.0 ton/yr to 51.0 ton/yr for device 4. Leave all other information the same.

(24) U.S. Steel Corp., Facility ID 50.19: Modify device 717. Change NO_x emission factor from 900 to 3400. NO_x emissions change from 12.0 ton/yr to 44.1 ton/yr. Leave all other information the same.

Additional Documentation

The following additional information is provided for entries (11), (12), and (14).

(11) Eight engines were identified in the ARB survey response for this facility. The fuel usage from the ARB survey was 960×10^6 ft^3/yr. Emissions were calculated as follows:

Pollutant	Emission Factor ($lb/10^6$ ft^3)	Emissions (tons/year)
CO	430.0	206.4
SO_2	0.6	0.3
NO_x	3400.0	1632.0
TOG	1400.0	672.0

(12) The following information was obtained for this facility from the ARB survey.

7 engines at 640 $lb/10^6$ ft^3
Total fuel usage = 10.4 x 10^6 ft^3/yr

3 engines at 3400 $lb/10^6$ ft^3
Total fuel usage = 160.5 x 10^6 ft^3/yr

Composite emission factor

$$\frac{10.4\ (640) + 160.5\ (3400)}{170.9} = 3232\ lb/10^6\ ft^3$$

This emission factor was used in conjunction with the fuel usage from the 1979 emission inventory.

158 x 10^6 ft^3/yr (3232 $lb/10^6$ ft^3) = 255.3 ton/yr

(14) Fuel usage from ARB survey = 175.3 x 10^6 ft^3/yr

Pollutant	Emission Factor ($lb/10^6$ ft^3)	Emissions (tons/year)
CO	430.0	37.7
SO_2	0.6	0.1
NO_x	3400.0	298.0
TOG	1400.0	122.7

RECOMMENDED CHANGES TO THE AREA SOURCE FILE

The following table documents the calculation of emissions from stationary gas-fired IC engines at facilities that could not be identified in the point source file of the emission inventory. The emissions from IC engines for these facilities were therefore summed and entered into the area source file under CES 66787.

TABLE B-1. Gas-fired IC engines included as an area source.

Company/Facility	Fuel Usage (10^6 ft^3/yr)	NO_x Emission Factor (lb/10^6 ft^3)	Emissions (ton/year) CO	SO_2	NO_x	TOG
A. S. Johnston Drilling Corp. Long Beach	0.438	640	0.1	0.0	0.1	0.3
Chester F. Yunker Long Beach	10.6	640	2.3	0.0	3.4	7.4
City of Whittier	21.0	640	4.5	0.0	6.7	14.7
	49.1	3400	10.6	0.0	83.5	34.4
Cochriel Petroleum Co. Long Beach	26.2	640	5.6	0.0	8.4	18.3
L.A. County Sanitation Dist. Whittier	1043.5	3400	224.4	0.3	1774.0	730.5
E. B. Cambell Long Beach	1.5	640	0.3	0.0	0.5	1.1
E. D. Mitchell Long Beach	2.8	640	0.6	0.0	0.9	2.0
Exxon Co. Long Beach	1.5	640	0.3	0.0	0.5	1.1
Exxon Co. Wilmington	70.4	640	15.1	0.0	22.5	49.3
Gardena Oil Long Beach	4.2	640	0.9	0.0	1.3	2.9

TABLE B-1 (Continued)

Company/Facility	Fuel Usage (10^6 ft^3/yr)	NO_x Emission Factor (lb/10^6 ft^3)	Emissions (ton/year)			
			CO	SO_2	NO_x	TOG
Getty Oil Co. Cypress Fee Lease	43.0	3400	9.2	0.0	73.1	30.1
Graner Oil Co.	22.2	640	4.8	0.0	7.1	15.5
Gulf Energy and Minerals	13.8	3400	3.0	0.0	23.5	9.7
Oak Canyon Oil Field	10.7	640	2.3	0.0	3.4	7.5
Hathaway Bros. Santa Fe Springs	5.2	640	1.1	0.0	1.7	3.6
Herley Kelley Co. Saugas	64.6	640	13.9	0.0	20.7	45.2
Mobil Oil Production Santa Fe Springs	74.9	640	16.1	0.0	24.0	52.4
Oxy Petroleum Los Angeles	22.1	3400	4.8	0.0	37.6	15.5
Pauley Petroleum Hawthorne	11.1	3400	2.4	0.0	18.9	7.8
Pyramid Oil Co.	6.0	3400	1.3	0.0	10.2	4.2
	10.0	640	2.2	0.0	3.2	7.0
Southern Cal Gas Dana Point	0.3	3400	0.1	0.0	0.5	0.2

TABLE B-1 (Continued)

Company/Facility	Fuel Usage (10^6 ft^3/yr)	NO_x Emission Factor (lb/10^6 ft^3)	Emissions (ton/year) CO	SO_2	NO_x	TOG
Sun Oil Company	172.4	640	37.0	0.1	23.3	120.7
	1190.2	3400	255.9	0.4	2023.3	833.1
T&F Oil Long Beach	1.1	640	0.2	0.0	0.4	0.8
Texaco Oil Production	37.4	640	8.0	0.0	12.0	26.2
	113.1	3400	24.3	0.0	192.3	79.2
Superior Oil Co. Harbor City	1.0	3400	0.2	0.0	1.7	0.7
Timco Oil Co. Long Beach	4.4	640	0.9	0.0	1.4	3.1
Turco Products Carson	11.8	3400	2.5	0.0	20.0	8.3
	0.8	640	0.2	0.0	0.3	0.6
Union Oil Co. Saugas	137.7	3400	29.6	0.0	234.1	96.4
Union Oil Co. Los Angeles	89.8	3400	19.3	0.0	152.7	62.9
Victory Oil Long Beach	7.0	640	1.5	0.0	2.2	4.9
Central Plants Inc. Fullerton	75.5	3400	16.2	0.0	128.4	52.8

TABLE B-1 (Concluded)

Company/Facility	Fuel Usage (10^6 ft^3/yr)	NO_x Emission Factor (lb/10^6 ft^3)	Emissions (ton/year)			
			CO	SO_2	NO_x	TOG
Exxon Co. Long Beach	71.4	3400	15.4	0.0	121.4	50.0
Occidental Petroleum Los Angeles	22.1	3400	4.8	0.0	37.6	15.5
Petroleum Lomita Signal Hill	50.7	3400	10.9	0.0	86.2	35.5
Union Oil Co. Brea	151.8	3400	32.6	0.0	258.1	106.3
TOTAL (as an area source for the SOCAB)			785.4	0.8	5421.0	2557.7

Appendix C

MODIFIED MBTH METHOD FOR ALDEHYDE ANALYSIS

ALDEHYDE METHODOLOGY--MODIFIED MBTH METHOD

A. GENERAL

The aliphatic aldehydes in ambient air are collected in a dilute acid solution. In the laboratory, the trapped aldehydes are reacted with MBTH (3-methyl-2-benzo-thiazolinone hydrazone hydrochloride) to form an azine. Oxidation of excess MBTH forms a reactive cation which adds to the azine to give a brilliant blue cationic dye. The intensity of the blue dye is directly proportional to the concentration of the aldehydes and gives a sensitive colorimetric method for aldehyde determination.

B. APPLICABILITY

This laboratory has found that the standard MBTH absorber is too unstable for accurate network aldehyde determination. Immediate color development and/or cold storage are prerequisites for successful application of the standard MBTH method. To utilize the high sensitivity of the aldehyde-MBTH reaction for network determinations, it is necessary to trap the aldehyde in an interim absorber and then carry out the aldehyde-hydrazone reaction in the lab analysis. The same dilute acid absorber used to trap ammonia can be used to trap aldehyde

C. APPARATUS

Suitable sampling apparatus
4-1000 ml volumetric flasks
9- 100 ml volumetric flasks
Suitable test tubes for number of samples and standards
Sufficient 1" cuvettes
1- 2 ml graduated pipet
2- 0.5 ml graduated pipets
8- 10 ml volumetric pipets
2- 5 ml volumetric pipets
1- 4 ml volumetric pipet
1- 3 ml volumetric pipet
1- 2 ml volumetric pipet
3- 1 ml volumetric pipets
1- 0.5 ml volumetric pipet
Spectrophotometer capable of operation at 626 nM

For Formaldehyde standardization:
1- 50 ml buret
1- 10 ml buret
3- 300 ml beakers
3- 125 ml Erlenmeyer flasks
Ice Bath

D. REAGENTS

All reagents should be ACS reagent grade.

(1) Absorbing Solution

Add 0.25 ml concentrated sulfuric acid to approximately 900 ml deionized water in a 1 liter volumetric flask. Bring up to volume. The normality of this solution is 0.009.

(2) Formaldehyde Standard

(a) Concentrated Standard

Pipet 2.7 ml 37% HCHO (should be standardized periodically to determine strength) into a 1 liter volumetric flask and dilute to the mark with deionized water. This solution has approximately 1,000 µg/ml. This solution is very stable.

(b) Working Standard

Pipet 1 ml of standard (a) into a 100 ml volumetric flask and bring up

(4) Oxidizing Reagent

Dissolve 0.5 g ferric chloride ($FeCl_3$) and 0.8 g sulfamic acid (NH_2SO_3H) in approximately 70 ml deionized water in a 100 ml volumetric flask. Dilute to the mark. This reagent must be prepared daily.

(5) Reagents for Formaldehyde Standardization

(a) 0.1 N Iodine Solution

Dissolve 25 g KI in approximately 25 ml deionized H_2O. Add 12.7 g I_2 and dilute to 1 liter.

(b) .01 N Iodine Solution

Dilute 100 ml of solution (a) to 1 liter. Standardize against a standard sodium thiosulfate solution using starch indicator. There is a blue to clear color change at the endpoint.

(c) Sodium Thiosulfate (0.1 N)

Accurately weigh 15.8 grams of anhydrous sodium thiosulfate ($Na_2S_2O_3$) and dilute to 1 liter. Use this solution to standardize the iodine solution. Sodium thiosulfate is not stable and should be standardized against a solution prepared by adding 2 g KI to a mixture of 8 ml concentrated HCl and 50 ml of 0.1 N $K_2Cr_2O_7$. Use a starch indicator for the end point. There is a blue to green color change at the end point.

(d) Potassium Dichromate (0.100 N)

Accurately weigh 4.9036 g of oven-dried $K_2Cr_2O_7$. Dissolve in deionized H_2O and dilute to 1 liter. This solution is 0.1 N and is stable.

(e) Starch Solution

Dissolve 2 g reagent grade soluble starch in 500 ml of boiling deionized water. Filter while the solution is still warm and add a crystal or two of mercuric chloride to inhibit mold growth.

(f) Sodium Carbonate Buffer Solution

Dissolve 80 grams of anhydrous sodium carbonate in about 500 ml of deionized water. Slowly add 20 ml glacial acetic acid and dilute to 1 liter. Chill solution.

(g) Sodium Bisulfite - 1% Solution

Dissolve 1 g of Na_2HSO_3 in 100 ml deionized H_2O.

E. COLLECTION OF SAMPLE

The aldehydes are trapped in 50 ml of absorbing solution using a suitable impinger and pumping apparatus. The flow should be approximately 0.4 l/min for a period of 24 hours. Sampling lines should either be Teflon or glass.

F. TEST PROCEDURE

(1) Standardization of Formaldehyde

Pipet 1 ml of concentrated formaldehyde standard, solution (a) of Section D. (2) (a), into an Erlenmeyer flask. Pipet 1 ml deionized H_2O into another flask for a blank. Add 10 ml of 1% sodium bisulfite and 1 ml of starch solution. Swirl to mix.

Add dropwise with pipet, 0.1 N I_2 to a dark blue color (approximately 15-20 ml). Destroy excess iodine with 0.1 N sodium thiosulfate (1-2 drops). Add 0.01 N iodine until a faint blue end point is reached (3-5 drops). The excess inorganic bisulfite is now completely oxidized to sulfate and solution is ready for determination of the formaldehyde bisulfite addition product. Chill the flask in an ice bath and add 25 ml of chilled sodium carbonate buffer. Using a microburet*, titrate the liberated sulfite with 0.01 N iodine to a faint blue end point (approximately 5-10 ml).

*NOTE: The amount of iodine added in this step must be accurately measured and recorded.

(2) Standard Curve Preparation

Pipet 1.0, 2.0, 3.0, 4.0, and 5.0 ml of standard formaldehyde solution (b), Section D. (2) (b), into 100 ml volumetric flasks. Dilute to volume with absorbing solution. These solutions contain about 0.1, 0.2, 0.3, 0.4, and 0.5 µg HCHO/ml, assuming HCHO used to make standard (a) is indeed 37%. (Use value obtained from HCHO standardization to ascertain true concentration of standards).

Pipet 10 ml from each standard into a 1" test tube. Prepare a blank using 10 ml absorbing solution. To each add 5 ml MBTH solution. Mix well. Wait 30 minutes. Add 0.5 ml oxidizing reagent. Mix well. After a 30 minute development time, read absorbance at 626 nM using a 1" cuvette. Plot absorbance against concentration of standards.

(3) Sample Analysis

Bring volume of absorber back to the original volume used for sampling, using deionized water, to correct for any evaporation during sampling. Place a 10 ml aliquot of each sample in a 1" test tube; prepare a blank using 10 ml absorbing solution. Add 5 ml MBTH solution to each and mix well. Wait 30 minutes. Then add 0.5 ml oxidizing reagent and mix well. After 30 minutes development time, read the absorbance at 626 nM using a 1" cuvette. Determine the concentration of aldehydes from the least squares standard curve.

G. QUALITY CONTROL

Replicate analyses should be run periodically to test the precision of the procedure. Criteria for acceptable average differences in replicates should be established. If these criteria are exceeded, that batch should be rerun.

Spiked samples should be run periodically to test the accuracy of the procedure. Spiked samples are prepared by adding a known quantity of standard to an aliquot of sample. Percent recovery can be calculated from the concentrations of the spiked sample, the sample, and the standard.

If samples are being run routinely, then

Appendix D

UNREDUCED ANALYTICAL RESULTS USED TO CREATE NEW SPECIATION PROFILES

GASOLINE

Summer Composite Unleadeded Regular - Liquid Sample

SITE :
MASTER LOG NO: UPCS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)
PARAFFINS	
ISOBUTANE	4.5
N-BUTANE	19.3
ISOPENTANE	37.3
N-PENTANE	15.0
METHYLPENTANE	1.3
CYCLOPENTANE	2.5
2,3-DIMETHYLBUTANE	5.4
ISOHEXANE	17.8
3-METHYLPENTANE	11.7
N-HEXANE	11.5
METHYLCYCLOPENTANE	13.9
2,4-DIMETHYLPENTANE	6.5
CYCLOHEXANE	3.4
ISOHEPTANE	24.8
3-METHYLHEXANE	12.0
2,2,4-TRIMETHYLPENTANE	17.8
N-HEPTANE	12.2
METHYLCYCLOHEXANE	5.5
2,5-DIMETHYLHEXANE	7.6
2,3,4-TRIMETHYLPENTANE	6.9
3,5,5-TRIMEHEXANE	9.6
3-METHYLHEPTANE	9.5
2,2,5-TRIMETHYLHEXANE	3.9
N-OCTANE	6.1
N-NONANE	3.5
N-DECANE	1.3
N-UNDECANE	1.0
C7 ALKANE	3.3
C7 ALKANE	2.5
C7 ALKANE	2.9
C8 ALKANE	1.4
C8 ALKANE	0.5
C8 ALKANE	0.5
C8 ALKANE	1.4
C9 ALKANE	0.9
C9 ALKANE	1.2
C9 ALKANE	2.6
C9 ALKANE	5.1
C10+ ALKANE	3.4
	0.5

COMPOUND	CONCENTRATION (MG-C/ML)
PARAFFINS (CONT'D)	
C10+ ALKANE	0.6
C10+ ALKANE	2.3
C10+ ALKANE	9.7
C10+ ALKANE	1.1
OLEFINS	
ISOBUTENE + 1-BUTENE	3.5
T-2-BUTENE	0.7
C-2-BUTENE	0.7
3-METHYL-1-BUTENE	0.5
1-PENTENE	2.0
2-METHYL-1-BUTENE	2.1
T-2-PENTENE	4.1
C-2-PENTENE	2.0
2-METHYL-2-BUTENE	7.7
CYCLOPENTENE	1.1
T-4-METHYL-2-PENTENE	1.3
1-HEXENE	1.7
T-2-HEXENE	3.6
C-2-HEXENE	4.4
C-3-METHYL-2-PENTENE	1.0
2,4,4-TRIME-1-PENTENE	0.8
1-OCTENE	1.1
C-2-OCTENE	1.0
1-NONENE	1.3
A-PINENE	0.5
B-PINENE	1.1
1-UNDECENE	0.7
C6 ALKENE	0.5
C8 ALKENE	0.6
C8 ALKENE	0.5
C9 ALKENE	1.5
C9 ALKENE	3.0
C9 ALKENE	0.9
C10+ ALKENE	0.7
	0.3

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VAPTANK RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Regular - Liquid Sample (cont.)

SITE :
MASTER LOG NO: URCS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (NG-C/ML)	COMPOUND	CONCENTRATION (NG-C/ML)
TOTAL AROMATICS			
BENZENE	11.4		
TOLUENE	61.0		
ETHYLBENZENE	12.1		
P-XYLENE/M-XYLENE	54.1		
O-XYLENE	20.0		
ISOPROPYLBENZENE	1.1		
N-PROPYLBENZENE	3.4		
M-ETHYLTOLUENE	17.0		
1,3,5-TRIMETHYLBENZENE	7.6		
O-ETHYLTOLUENE	7.1		
1,2,4-TRIMETHYLBENZENE	20.8		
1,2,3-TRIMETHYLBENZENE	4.9		
INDAN	2.2		
M-DIETHYLBENZENE	3.3		
N-BUTYLBENZENE	4.2		
C10+ AROMATIC	2.6		
C10+ AROMATIC	1.5		
SULFUR SPECIES			
PARAFFINS	302.7		
OLEFINS	~~48.0~~ 51.8		
TOTAL AROMATICS	234.3		
TOTAL NMHC	590.6		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Leaded Regular - Liquid Sample

SITE .
MASTER LOG NO: LRCS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)
PARAFFINS	
ISOBUTANE	3.5
N-BUTANE	15.3
ISOPENTANE	58.8
N-PENTANE	27.1
NEOHEXANE	1.1
CYCLOPENTANE	5.5
2,3-DIMETHYLBUTANE	7.8
ISOHEXANE	31.7
3-METHYLPENTANE	18.8
N-HEXANE	18.8
METHYLCYCLOPENTANE	25.4
2,4-DIMETHYLPENTANE	5.8
CYCLOHEXANE	6.0
ISOHEPTANE	26.0
3-METHYLHEXANE	13.3
2,2,4-TRIMETHYLPENTANE	10.9
N-HEPTANE	13.2
METHYLCYCLOHEXANE	9.9
2,5-DIMETHYLHEXANE	5.6
2,3,4-TRIMETHYLPENTANE	5.1
3,5,5-TRIMEHEXANE	9.0
2,2,5-TRIMETHYLHEXANE	4.3
N-OCTANE	6.5
N-NONANE	4.3
N-DECANE	2.5
N-UNDECANE	1.3
C6 ALKANE	0.4
C7 ALKANE	5.8
C7 ALKANE	4.8
C7 ALKANE	6.0
C8 ALKANE	1.6
C8 ALKANE	1.0
C8 ALKANE	0.3
C8 ALKANE	2.3
C8 ALKANE	1.8
C8 ALKANE	0.9
C9 ALKANE	2.0
C9 ALKANE	0.8
C9 ALKANE	1.1
C9 ALKANE	2.7
3-~~Methyl~~Methylheptane	9.4
C9 ALKANE	5.1
C9 ALKANE	3.5
C9 ALKANE	1.0
C10+ ALKANE	0.9
C10+ ALKANE	3.0
C10+ ALKANE	0.8
C10+ ALKANE	1.7
OLEFINS	
ISOBUTENE + 1-BUTENE	1.1
T-2-BUTENE	0.8
C-2-BUTENE	1.0
3-METHYL-1-BUTENE	0.6
1-PENTENE	2.4
2-METHYL-1-BUTENE	3.6
T-2-PENTENE	4.9
C-2-PENTENE	2.4
2-METHYL-2-BUTENE	9.8
CYCLOPENTENE	1.5
1-HEXENE	2.7
T-2-HEXENE	4.4
C-2-HEXENE	5.6
C-3-METHYL-2-PENTENE	1.1
2,4,4-TRIME-1-PENTENE	0.9
1-METHYLCYCLOHEXENE	5.0
1-OCTENE	1.4
C-2-OCTENE	9.2
1-NONENE	1.5
A-PINENE	0.7
B-PINENE	1.8
1-UNDECENE	1.2
C7 ALKENE	0.7
C7 ALKENE	0.8
C9 ALKENE	4.2
C9 ALKENE	1.4
C9 ALKENE	1.1
C10+ ALKENE	1.9

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Leaded Regular - Liquid Sample (cont.)

SITE .
MASTER LOG NO: LPCS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)	COMPOUND	CONCENTRATION (MG-C/ML)
TOTAL AROMATICS			
BENZENE	12.0		
TOLUENE	40.7		
ETHYLBENZENE	9.0		
P-XYLENE/M-XYLENE	37.5		
O-XYLENE	13.6		
ISOPROPYLBENZENE	1.2		
N-PROPYLBENZENE	3.2		
M-ETHYLTOLUENE	13.8		
1,3,5-TRIMETHYLBENZENE	6.8		
O-ETHYLTOLUENE	7.0		
1,2,4-TRIMETHYLBENZENE	16.6		
1,2,3-TRIMETHYLBENZENE	6.0		
INDAN	2.7		
INDENE	0.3		
M-DIETHYLBENZENE	2.8		
N-BUTYLBENZENE	4.2		
NAPHTHALENE	1.0		
C10+ AROMATIC	0.4		
C10+ AROMATIC	0.6		
C10+ AROMATIC	0.2		
C10+ AROMATIC	2.9		
TOTAL HALOGENATED HC			
1,2-DICHLOROETHANE	~~0.1~~ 0.060		
1,1,1-TRICHLOROETHANE	~~0.0~~ 0.019		
1,1-DICHLOROETHANE	~~0.1~~ 0.063		
~~UNIDENTIFIED HALOGENATED HC~~	~~0.0~~		
1,2-Dibromoethane	0.0063		
**TOTAL OXYGENATED HC			
~~HEXANAL~~	~~0.9~~		
PARAFFINS	~~393.6~~ 393.6		
OLEFINS	64.7		
TOTAL AROMATICS	182.5		
TOTAL HALOGENATED HC	~~0.1~~ 0.148		
~~TOTAL OXYGENATED HC~~	~~0.9~~		
TOTAL NMHC	631.5		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Premium - Liquid Sample

SITE .
MASTER LOG NO: UPCS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)
PARAFFINS	
ISOBUTANE	5.5
N-BUTANE	22.5
ISOPENTANE	34.7
N-PENTANE	9.9
NEOHEXANE	1.3
CYCLOPENTANE	1.8
2,3-DIMETHYLBUTANE	8.3
ISOHEXANE	14.7
3-METHYLPENTANE	9.7
N-HEXANE	7.9
METHYLCYCLOPENTANE	10.0
2,4-DIMETHYLPENTANE	7.7
CYCLOHEXANE	2.0
ISOHEPTANE	21.2
3-METHYLHEXANE	9.6
2,2,4-TRIMETHYLPENTANE	43.7
N-HEPTANE	10.7
METHYLCYCLOHEXANE	4.1
2,5-DIMETHYLHEXANE	13.6
2,3,4-TRIMETHYLPENTANE	17.2
3,5,5-TRIMEHEXANE	8.1
3-METHYLHEPTANE	7.5
2,2,5-TRIMETHYLHEXANE	5.9
N-OCTANE	4.8
N-NONANE	2.7
N-UNDECANE	0.9
C7 ALKANE	0.5
C7 ALKANE	0.7
C7 ALKANE	2.3
C7 ALKANE	1.8
C7 ALKANE	1.4
C8 ALKANE	1.4
C8 ALKANE	1.0
C8 ALKANE	0.7
C8 ALKANE	0.5
C9 ALKANE	1.1
C9 ALKANE	1.9
C9 ALKANE	3.6
C9 ALKANE	2.2
C9 ALKANE	0.4

COMPOUND	CONCENTRATION (MG-C/ML)
PARAFFINS (CONT'D)	
C10+ ALKANE	0.3
C10+ ALKANE	0.3
C10+ ALKANE	2.4
C10+ ALKANE	1.9
C10+ ALKANE	0.5
C10+ ALKANE	0.9
OLEFINS	
ISOBUTENE + 1-BUTENE	0.5
T-2-BUTENE	1.8
C-2-BUTENE	0.9
3-METHYL-1-BUTENE	0.4
1-PENTENE	2.0
2-METHYL-1-BUTENE	2.1
T-2-PENTENE	4.1
C-2-PENTENE	2.0
2-METHYL-2-BUTENE	7.9
CYCLOPENTENE	1.2
T-4-METHYL-2-PENTENE	1.2
1-HEXENE	1.5
T-2-HEXENE	3.4
C-2-HEXENE	4.3
C-3-METHYL-2-PENTENE	0.9
2,4,4-TRIME-1-PENTENE	0.9
1-METHYLCYCLOHEXENE	8.1
1-OCTENE	1.4
C-2-OCTENE	0.2
1-NONENE	0.4
A-PINENE	0.3
B-PINENE	0.7
1-UNDECENE	0.7
C8 ALKENE	0.4
C8 ALKENE	0.5
C8 ALKENE	1.8

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Premium - Liquid Sample (cont.)

SITE :
MASTER LOG NO: UPCS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)	COMPOUND	CONCENTRATION (MG-C/ML)
TOTAL AROMATICS			
BENZENE	13.8		
TOLUENE	91.4		
ETHYLBENZENE	13.5		
P-XYLENE/M-XYLENE	60.7		
O-XYLENE	23.7		
ISOPROPYLBENZENE	1.1		
N-PROPYLBENZENE	3.3		
M-ETHYLTOLUENE	17.9		
1,3,5-TRIMETHYLBENZENE	7.8		
O-ETHYLTOLUENE	6.7		
1,2,4-TRIMETHYLBENZENE	21.6		
ISOBUTYLBENZENE	1.0		
1,2,3-TRIMETHYLBENZENE	6.2		
INDAN	2.1		
INDENE	0.7		
M-DIETHYLBENZENE	3.2		
N-BUTYLBENZENE	4.3		
P-DIETHYLBENZENE	0.5		
C9 AROMATIC	0.8		
C10+ AROMATIC	0.6		
C10+ AROMATIC	1.5		
PARAFFINS	311.8		
OLEFINS	48.6		
TOTAL AROMATICS	282.4		
TOTAL NMHC	642.8		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Leaded Premium - Liquid Sample

SITE .
MASTER LOG NO: LPS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)
PARAFFINS	
C-3 VOC	1.1
ISOBUTANE	7.9
N-BUTANE	21.3
ISOPENTANE	54.8
N-PENTANE	24.4
MECHEXANE	2.0
CYCLOPENTANE	3.8
2,3-DIMETHYLBUTANE	6.7
ISOHEXANE	28.8
3-METHYLPENTANE	19.3
N-HEXANE	23.4
METHYLCYCLOPENTANE	20.3
2,4-DIMETHYLPENTANE	6.2
CYCLOHEXANE	7.6
ISOHEPTANE	27.8
3-METHYLHEXANE	16.1
2,2,4-TRIMETHYLPENTANE	12.1
N-HEPTANE	14.8
METHYLCYCLOHEXANE	6.0
2,5-DIMETHYLHEXANE	6.3
2,3,4-TRIMETHYLPENTANE	3.4
3,5,5-TRIMEHEXANE	9.3
3-METHYLHEPTANE	9.6
2,2,5-TRIMETHYLHEXANE	3.6
N-OCTANE	5.8
N-NONANE	3.4
N-DECANE	3.5
N-UNDECANE	0.9
C7 ALKANE	3.8
C7 ALKANE	3.1
C7 ALKANE	4.3
C8 ALKANE	0.9
C8 ALKANE	0.6
C8 ALKANE	0.6
C8 ALKANE	1.3
C8 ALKANE	0.8
C8 ALKANE	0.6
C8 ALKANE	0.5
C9 ALKANE	0.8
C9 ALKANE	1.1
PARAFFINS (CONT'D)	
C9 ALKANE	2.3
C9 ALKANE	4.7
C9 ALKANE	3.8
C9 ALKANE	0.9
C9 ALKANE	0.6
C10+ ALKANE	0.8
C10+ ALKANE	3.5
C10+ ALKANE	3.3
C10+ ALKANE	1.7
C10+ ALKANE	0.8
OLEFINS	
C-2-BUTENE	0.4
1-PENTENE	0.5
2-METHYL-1-BUTENE	1.8
T-2-PENTENE	1.8
C-2-PENTENE	0.9
2-METHYL-2-BUTENE	4.4
CYCLOPENTENE	0.5
1-HEXENE	0.4
T-2-HEXENE	0.2
C-2-HEXENE	2.5
C-3-METHYL-2-PENTENE	0.5
2,4,4-TRIME-1-PENTENE	0.6
1-METHYLCYCLOHEXENE	2.4
1-OCTENE	0.9
C-2-OCTENE	1.2
1-NONENE	0.3
A-PINENE	0.6
B-PINENE	1.1
1-UNDECENE	0.7
C9 ALKENE	2.8
C9 ALKENE	0.8
TOTAL AROMATICS	
BENZENE	21.3
TOLUENE	80.6
ETHYLBENZENE	13.5

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Leaded Premium - Liquid Sample (cont.)

SITE .
MASTER LOG NO: LPS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/21/84

COMPOUND	CONCENTRATION (MG-C/ML)	COMPOUND	CONCENTRATION (MG-C/ML)
TOTAL AROMATICS (CONT'D)			
P-XYLENE/M-XYLENE	61.5		
O-XYLENE	23.4		
ISOPROPYLBENZENE	1.4		
N-PROPYLBENZENE	3.5		
M-ETHYLTOLUENE	17.5		
1,3,5-TRIMETHYLBENZENE	8.5		
O-ETHYLTOLUENE	7.1		
1,2,4-TRIMETHYLBENZENE	22.1		
1,2,3-TRIMETHYLBENZENE	6.7		
INDAN	2.6		
M-DIETHYLBENZENE	3.7		
N-BUTYLBENZENE	4.4		
TOTAL HALOGENATED HC			
METHYLENE CHLORIDE	~~0.0~~ 0.021		
1,2-DICHLOROETHANE	~~0.0~~ 0.0209		
1,1,1-TRICHLOROETHANE	~~0.0~~ 0.0179		
UNIDENTIFIED HALOGENATED HC	~~0.0~~ 0.0025		
1,2 Dibromoethane	0.014		
TOTAL OXYGENATED HC			
~~BENZALDEHYDE~~	~~0.0~~		
PARAFFINS	389.4		
OLEFINS	24.5		
TOTAL AROMATICS	277.8		
TOTAL HALOGENATED HC	~~0.0~~ 0.077		
~~TOTAL OXYGENATED HC~~	~~0.0~~		
TOTAL NMHC	691.8		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Regular - Vapor Headspace Sample (23°C)

SITE :
MASTER LOG NO: UPOS-F
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/24/84

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	2.7
C-3 VOC	29.8
ISOBUTANE	154.0
N-BUTANE	394.0
ISOPENTANE	280.0
N-PENTANE	80.1
METHYLCYCLOPENTANE	3.2
2,3-DIMETHYLBUTANE	6.5
ISOHEXANE	11.8
3-METHYLPENTANE	34.7
N-HEXANE	19.5
METHYLCYCLOPENTANE	14.4
2,4-DIMETHYLPENTANE	13.8
CYCLOHEXANE	4.9
ISOHEPTANE	2.0
3-METHYLHEXANE	10.6
2,2,4-TRIMETHYLPENTANE	4.5
N-HEPTANE	5.4
METHYLCYCLOHEXANE	3.0
2,5-DIMETHYLHEXANE	1.3
2,3,4-TRIMETHYLPENTANE	1.1
3,5,5-TRIMEHEXANE	0.9
3-METHYLHEPTANE	0.6
2,2,5-TRIMETHYLHEXANE	0.7
N-OCTANE	0.3
C7 ALKANE	0.4
C7 ALKANE	1.2
C7 ALKANE	0.9
C8 ALKANE	1.1
C8 ALKANE	3.2
C8 ALKANE	0.1
C9 ALKANE	0.1
C9 ALKANE	0.1
C9 ALKANE	0.1
OLEFINS	
ISOBUTENE + 1-BUTENE	16.3
T-2-BUTENE	22.3
C-2-BUTENE	17.2

COMPOUND	CONCENTRATION (PPTHV-C)
OLEFINS (CONT'D)	
3-METHYL-1-BUTENE	5.2
1-PENTENE	12.6
2-METHYL-1-BUTENE	14.3
T-2-PENTENE	21.8
C-2-PENTENE	11.0
2-METHYL-2-BUTENE	31.6
CYCLOPENTENE	3.4
T-4-METHYL-2-PENTENE	2.4
1-HEXENE	2.9
T-2-HEXENE	4.5
C-2-HEXENE	4.7
C-3-METHYL-2-PENTENE	1.0
2,4,4-TRIME-1-PENTENE	0.2
1-METHYLCYCLOHEXENE	0.6
C6 ALKENE	0.8
C7 ALKENE	0.3
C7 ALKENE	0.3
C7 ALKENE	0.3
TOTAL AROMATICS	
BENZENE	9.0
TOLUENE	7.5
ETHYLBENZENE	0.4
P-XYLENE/M-XYLENE	1.6
O-XYLENE	0.4
M-ETHYLTOLUENE	0.2
1,3,5-TRIMETHYLBENZENE	0.1
1,2,4-TRIMETHYLBENZENE	0.2
1,2,3-TRIMETHYLBENZENE	0.3
PARAFFINS	1084.2
OLEFINS	175.7
TOTAL AROMATICS	19.7
TOTAL NMHC	1278.6

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Leaded Regular - Vapor Headspace Sample

SITE .
MASTER LOG NO: LRCS-P
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/24/94

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	2.6
C-3 VOC	19.5
ISOBUTANE	88.9
N-BUTANE	242.0
ISOPENTANE	325.8
N-PENTANE	113.0
NEOHEXANE	2.7
CYCLOPENTANE	11.0
2,3-DIMETHYLBUTANE	11.8
ISOHEXANE	44.4
3-METHYLPENTANE	23.7
N-HEXANE	17.8
METHYLCYCLOPENTANE	18.6
2,4-DIMETHYLPENTANE	3.7
CYCLOHEXANE	2.5
ISOHEPTANE	7.1
3-METHYLHEXANE	3.1
2,2,4-TRIMETHYLPENTANE	2.8
N-HEPTANE	1.9
METHYLCYCLOHEXANE	1.2
2,5-DIMETHYLHEXANE	0.5
2,3,4-TRIMETHYLPENTANE	0.4
3,5,5-TRIMEHEXANE	0.4
3-METHYLHEPTANE	0.3
C7 ALKANE	1.4
C7 ALKANE	1.0
C7 ALKANE	1.3
C8 ALKANE	0.1
"	0.2
"	0.1
OLEFINS*	0.1
ISOBUTENE + 1-BUTENE	15.6
T-2-BUTENE	18.7
C-2-BUTENE	14.6
3-METHYL-1-BUTENE	5.8
1-PENTENE	15.7
2-METHYL-1-BUTENE	15.2
T-2-PENTENE	21.6
C-2-PENTENE	10.6

COMPOUND	CONCENTRATION (PPTHV-C)
OLEFINS (CONT'D)	
2-METHYL-2-BUTENE	34.1
CYCLOPENTENE	3.6
T-4-METHYL-2-PENTENE	2.6
1-HEXENE	3.5
2-METHYL-2-PENTENE	1.3
T-2-HEXENE	2.8
C-2-HEXENE	4.8
C-3-METHYL-2-PENTENE	1.0
2,4,4-TRIME-1-PENTENE	0.1
1-METHYLCYCLOHEXENE	0.3
C6 ALKENE	0.7
C7 ALKENE	0.2
C7 ALKENE	0.2
C7 ALKENE	0.1
C9 ALKENE	0.5
TOTAL AROMATICS	
BENZENE	6.0
TOLUENE	2.9
ETHYLBENZENE	0.2
P-XYLENE/M-XYLENE	0.5
O-XYLENE	0.3
M-ETHYLTOLUENE	0.2
1,3,5-TRIMETHYLBENZENE	0.1
O-ETHYLTOLUENE	0.1
1,2,4-TRIMETHYLBENZENE	0.4
1,2,3-TRIMETHYLBENZENE	0.5
TOTAL HALOGENATED HC	
~~2-CHLOROETHYLVINYL ETHER~~	~~0.1~~
~~T-1,3-DICHLOROPROPENE~~	~~0.1~~
PARAFFINS	948.6 3
OLEFINS	173.6
TOTAL AROMATICS	11.2
~~TOTAL HALOGENATED HC~~	~~0.2~~
TOTAL NMHC	1133.1

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Premium - Vapor Headspace Sample

SITE .
MASTER LOG NO: UPCS-P
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/24/84

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	0.8
C-3 VOC	17.7
ISOBUTANE	109.0
N-BUTANE	296.0
ISOPENTANE	166.0
N-PENTANE	34.2
NEOHEXANE	2.2
CYCLOPENTANE	2.2
2,3-DIMETHYLBUTANE	12.0
ISOHEXANE	19.6
3-METHYLPENTANE	11.0
N-HEXANE	7.7
METHYLCYCLOPENTANE	7.2
2,4-DIMETHYLPENTANE	4.1
CYCLOHEXANE	6.8
ISOHEPTANE	6.6
3-METHYLHEXANE	2.8
2,2,4-TRIMETHYLPENTANE	9.5
N-HEPTANE	2.2
METHYLCYCLOHEXANE	0.9
2,5-DIMETHYLHEXANE	1.4
2,3,4-TRIMETHYLPENTANE	1.6
3,5,5-TRIMEHEXANE	0.6
3-METHYLHEPTANE	0.5
2,2,5-TRIMETHYLHEXANE	0.3
N-OCTANE	0.2
C7 ALKANE	0.7
C7 ALKANE	0.5
C7 ALKANE	0.4
C8 ALKANE	0.1
OLEFINS	
ISOBUTENE + 1-BUTENE	12.0
T-2-BUTENE	15.5
C-2-BUTENE	12.6
3-METHYL-1-BUTENE	3.6
1-PENTENE	7.9
2-METHYL-1-BUTENE	10.6
T-2-PENTENE	14.3

COMPOUND	CONCENTRATION (PPTHV-C)
OLEFINS (CONT'D)	
C-2-PENTENE	7.2
2-METHYL-2-BUTENE	21.0
CYCLOPENTENE	2.4
4-METHYL-1-PENTENE	0.8
T-4-METHYL-2-PENTENE	1.4
1-HEXENE	1.9
2-METHYL-2-PENTENE	0.9
T-2-HEXENE	2.1
C-2-HEXENE	3.3
C-3-METHYL-2-PENTENE	0.7
2,4,4-TRIME-1-PENTENE	0.1
1-METHYLCYCLOHEXENE	0.6
C7 ALKENE	0.2
C7 ALKENE	0.2
C8 ALKENE	0.2
TOTAL AROMATICS	
BENZENE	7.0
TOLUENE	8.9
ETHYLBENZENE	0.4
P-XYLENE/M-XYLENE	1.6
O-XYLENE	0.7
M-ETHYLTOLUENE	0.2
1,3,5-TRIMETHYLBENZENE	0.1
1,2,4-TRIMETHYLBENZENE	10.3
1,2,3-TRIMETHYLBENZENE	1.0
PARAFFINS	724.8
OLEFINS	119.5
TOTAL AROMATICS	30.2
TOTAL NMHC	874.5

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Leaded Premium - Vapor Headspace Sample

SITE :
MASTER LOG NO: LPS-HS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 05/24/91

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	0.7
C-3 VOC	12.2
ISOBUTANE	132.0
N-BUTANE	228.0
ISOPENTANE	202.0
N-PENTANE	64.8
NEOHEXANE	8.2
CYCLOPENTANE	4.9
2,3-DIMETHYLBUTANE	7.4
ISOHEXANE	28.3
3-METHYLPENTANE	16.0
N-HEXANE	14.6
METHYLCYCLOPENTANE	10.5
2,4-DIMETHYLPENTANE	2.6
CYCLOHEXANE	2.4
ISOHEPTANE	6.3
3-METHYLHEXANE	3.2
2,2,4-TRIMETHYLPENTANE	2.0
N-HEPTANE	2.1
METHYLCYCLOHEXANE	0.7
2,5-DIMETHYLHEXANE	0.5
2,3,4-TRIMETHYLPENTANE	0.2
3,5,5-TRIMEHEXANE	0.4
3-METHYLHEPTANE	0.4
2,2,5-TRIMETHYLHEXANE	0.1
N-OCTANE	0.1
C7 ALKANE	0.7
C7 ALKANE	0.6
C7 ALKANE	0.8
OLEFINS	
ISOBUTENE + 1-BUTENE	11.1
T-2-BUTENE	4.8
C-2-BUTENE	4.6
3-METHYL-1-BUTENE	1.2
1-PENTENE	2.2
T-2-PENTENE	5.5
C-2-PENTENE	2.6
2-METHYL-2-BUTENE	8.2

COMPOUND	CONCENTRATION (PPTHV-C)
OLEFINS (CONT'D)	
CYCLOPENTENE	0.8
1-HEXENE	0.5
2-METHYL-2-PENTENE	0.1
T-2-HEXENE	0.2
C-2-HEXENE	1.3
C-3-METHYL-2-PENTENE	0.3
1-METHYLCYCLOHEXENE	0.1
C10+ ALKENE	0.1
TOTAL AROMATICS	
BENZENE	7.8
TOLUENE	5.6
ETHYLBENZENE	0.2
P-XYLENE/M-XYLENE	1.0
O-XYLENE	0.3
M-ETHYLTOLUENE	0.3
1,3,5-TRIMETHYLBENZENE	0.1
O-ETHYLTOLUENE	0.1
1,2,4-TRIMETHYLBENZENE	0.5
1,2,3-TRIMETHYLBENZENE	0.2
INDENE	0.2
M-DIETHYLBENZENE	0.1
N-BUTYLBENZENE	0.1
C10+ AROMATIC	0.1
C10+ AROMATIC	0.1
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	0.1
PARAFFINS	752.7
OLEFINS	43.6
TOTAL AROMATICS	16.7
UNIDENTIFIED VOC	0.1
TOTAL NMHC	813.1

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Headspace Sample (35° C) Heated

DATE SAMPLED: .
DATE ANALYZED: 07/03/84

COMPOUND	CONCENTRATION (PPTHV-C)
NS (CONT'D)	
ETHYL-2-BUTENE	57.6
LOPENTENE	12.4
EXENE	13.3
-HEXENE	~~331.0~~ 33.1
-HEXENE	31.2
-METHYL-2-PENTENE	11.6
ETHYLCYCLOHEXENE	17.1
IDECENE	39.0
LKENE	52.7
ALKENE	10.4
ALKENE	92.2
ALKENE	17.5
AROMATICS	
ENE	89.0
ENE	439.0
LBENZENE	97.7
LENE/M-XYLENE	453.0
LENE	151.0
OPYLBENZENE	41.6
HYLTOLUENE	214.0
5-TRIMETHYLBENZENE	98.4
HYLTOLUENE	86.3
4-TRIMETHYLBENZENE	347.0
3-TRIMETHYLBENZENE	114.0
N	46.0
ETHYLBENZENE	101.0
TYLBENZENE	43.0
ETHYLBENZENE	88.6
THALENE	40.3
AROMATIC	22.0
AROMATIC	115.0
AROMATIC	109.0
AROMATIC	59.9
AROMATIC	97.6

NS.

V TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Regular - Vapor Headspace Sample (35°C) (cont.)

SITE .
MASTER LOG NO: URC-WM
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 07/03/84

COMPOUND	CONCENTRATION (PPTHV-C)	COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	1940.0		
OLEFINS	~~822.6~~ 524.7		
TOTAL AROMATICS	2857.4		
TOTAL NMHC	5620.0		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Summer Composite Unleaded Regular - Vapor Headspace Sample - Agitated 1 min. (23°C) (cont.)

SITE .
MASTER LOG NO: URC-MX
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 07/03/84

COMPOUND	CONCENTRATION (PPTHV-C)	COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	1653.5		
OLEFINS	402.0		
TOTAL AROMATICS	1047.1		
TOTAL NMHC	3102.6		

* ARTIFACT COMPOUND - CONCENTRATION NOT USED IN TOTAL NMHC CALCULATIONS.

** VARIABLE RECOVERY THROUGH DRYING SYSTEM - CONCENTRATIONS NOT USED IN TOTAL NMHC CALCULATIONS.

Winter Composite Unleaded Regular - Liquid Sample

SITE 1
MASTER LOG NO: LRC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)
PARAFFINS	
C-2 VOC	0.3
C-3 VOC	0.9
ISOBUTANE	12.9
N-BUTANE	39.9
ISOPENTANE	44.3
N-PENTANE	18.4
METHEXANE	0.9
CYCLOPENTANE	3.4
2,3-DIMETHYLBUTANE	5.7
ISOHEXANE	21.0
3-METHYLPENTANE	12.6
N-HEXANE	11.4
METHYLCYCLOPENTANE	15.1
2,4-DIMETHYLPENTANE	6.6
CYCLOHEXANE	3.4
ISOHEPTANE	24.1
3-METHYLHEXANE	10.9
N-HEPTANE	10.5
METHYLCYCLOHEXANE	5.8
2,5-DIMETHYLHEXANE	6.4
2,3,4-TRIMETHYLPENTANE	5.1
3,5,5-TRIMEHEXANE	8.2
3-METHYLHEPTANE	8.3
2,2,5-TRIMETHYLHEXANE	5.1
N-OCTANE	5.7
N-NONANE	3.9
N-DECANE	1.4
N-UNDECANE	1.5
C7 ALKANE	3.5
C7 ALKANE	2.8
C8 ALKANE	3.5
C8 ALKANE	13.8
C8 ALKANE	0.4
C8 ALKANE	1.4
C8 ALKANE	1.0
C9 ALKANE	1.2
C9 ALKANE	1.2
C9 ALKANE	4.3
C9 ALKANE	3.1
C9 ALKANE	0.7

COMPOUND	CONCENTRATION (MG-C/G)
PARAFFINS (CONT'D)	
C10+ ALKANE	1.2
C10+ ALKANE	5.3
C10+ ALKANE	5.3
C10+ ALKANE	2.8
C10+ ALKANE	1.4
C10+ ALKANE	1.7
C10+ ALKANE	1.6
OLEFINS	
ISOBUTENE + 1-BUTENE	1.3
T-2-BUTENE	1.2
C-2-BUTENE	1.2
3-METHYL-1-BUTENE	0.7
1-PENTENE	2.0
2-METHYL-1-BUTENE	2.4
T-2-PENTENE	3.7
C-2-PENTENE	2.1
2-METHYL-2-BUTENE	4.6
CYCLOPENTENE	1.3
1-HEXENE	2.2
T-2-HEXENE	3.6
C-2-HEXENE	1.0
2,4,4-TRIME-1-PENTENE	0.5
1-METHYLCYCLOHEXENE	3.0
1-OCTENE	1.1
1-NONENE	0.3
A-PINENE	0.8
B-PINENE	1.4
1-UNDECENE	1.2
C6 ALKENE	0.4
C6 ALKENE	3.9
C7 ALKENE	0.4
C7 ALKENE	1.4
C8 ALKENE	0.5
C8 ALKENE	0.5
C8 ALKENE	1.7
C9 ALKENE	2.8

Winter Composite Unleaded Regular - Liquid Sample (cont.)

SITE 1
MASTER LOG NO: UNC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)	COMPOUND	CONCENTRATION (MG-C/G)
TOTAL AROMATICS			
BENZENE	12.5		
TOLUENE	62.5		
ETHYLBENZENE	14.3		
P-XYLENE/M-XYLENE	60.0		
O-XYLENE	24.6		
ISOPROPYLBENZENE	1.7		
N-PROPYLBENZENE	4.7		
M-ETHYLTOLUENE	22.3		
1,3,5-TRIMETHYLBENZENE	8.9		
O-ETHYLTOLUENE	8.6		
1,2,4-TRIMETHYLBENZENE	28.9		
1,2,3-TRIMETHYLBENZENE	9.0		
INDAN	3.6		
M-DIETHYLBENZENE	5.8		
N-BUTYLBENZENE	6.5		
NAPHTHALENE	1.7		
C9 AROMATIC	1.2		
C9 AROMATIC	1.0		
C9 AROMATIC	8.8		
TOTAL HALOGENATED HC			
1,1,2-TETCHLOROETHANE	0.4		
PARAFFINS	349.9		
OLEFINS	49.2		
TOTAL AROMATICS	286.6		
TOTAL HALOGENATED HC	0.4		
TOTAL NMHC	686.1		

Winter Composite - Leaded Regular - Liquid Sample

SITE 1
MASTER LOG NO: LRC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)
PARAFFINS	
ISOBUTANE	14.5
N-BUTANE	30.1
ISOPENTANE	39.6
N-PENTANE	22.9
NEOHEXANE	0.9
CYCLOPENTANE	4.7
2,3-DIMETHYLBUTANE	4.7
ISOHEXANE	19.5
3-METHYLPENTANE	12.3
N-HEXANE	15.3
METHYLCYCLOPENTANE	17.7
2,4-DIMETHYLPENTANE	4.1
CYCLOHEXANE	4.7
ISOHEPTANE	17.1
3-METHYLHEXANE	8.9
N-HEPTANE	11.0
METHYLCYCLOHEXANE	7.2
2,5-DIMETHYLHEXANE	4.2
2,3,4-TRIMETHYLPENTANE	3.4
3,5,5-TRIMEHEXANE	7.8
3-METHYLHEPTANE	8.6
2,2,5-TRIMETHYLHEXANE	4.5
N-OCTANE	6.9
N-NONANE	4.9
N-DECANE	3.2
N-UNDECANE	1.5
C6 ALKANE	0.4
C7 ALKANE	3.8
C7 ALKANE	3.0
C8 ALKANE	4.1
C8 ALKANE	7.6
C8 ALKANE	2.0
C8 ALKANE	1.4
C8 ALKANE	0.7
C9 ALKANE	0.8
C9 ALKANE	1.1
C9 ALKANE	3.1
C9 ALKANE	4.7
C9 ALKANE	3.6
C10+ ALKANE	0.9

COMPOUND	CONCENTRATION (MG-C/G)
PARAFFINS (CONT'D)	
C10+ ALKANE	0.4
C10+ ALKANE	3.6
C10+ ALKANE	3.5
C10+ ALKANE	3.7
C10+ ALKANE	2.0
C10+ ALKANE	1.5
C10+ ALKANE	1.9
C10+ ALKANE	1.0
OLEFINS	
ISOBUTENE + 1-BUTENE	1.6
T-2-BUTENE	2.3
C-2-BUTENE	1.6
3-METHYL-1-BUTENE	0.8
1-PENTENE	2.7
2-METHYL-1-BUTENE	2.8
T-2-PENTENE	4.4
C-2-PENTENE	2.1
2-METHYL-2-BUTENE	7.0
CYCLOPENTENE	1.3
T-4-METHYL-2-PENTENE	1.3
1-HEXENE	3.3
T-2-HEXENE	4.1
C-2-HEXENE	1.1
2,4,4-TRIME-1-PENTENE	0.6
1-METHYLCYCLOHEXENE	3.6
1-OCTENE	1.5
C-2-OCTENE	0.2
1-NONENE	0.4
A-PINENE	0.8
B-PINENE	1.8
1-UNDECENE	1.1
C7 ALKENE	4.3
C7 ALKENE	0.3
C8 ALKENE	1.5
C8 ALKENE	0.7
C8 ALKENE	2.0
C9 ALKENE	2.7

Winter Composite - Leaded Regular - Liquid Sample (cont.)

SITE 1
MASTER LOG NO: LRC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)	COMPOUND	CONCENTRATION (MG-C/G)
AROMATICS			
ENE	10.1		
ENE	36.9		
LBENZENE	9.5		
LENE/M-XYLENE	39.7		
_ENE	14.9		
ROPYLBENZENE	1.3		
CPYLBENZENE	3.6		
HYLTOLUENE	16.3		
5-TRIMETHYLBENZENE	6.8		
-YLTOLUENE	7.1		
4-TRIMETHYLBENZENE	19.9		
3-TRIMETHYLBENZENE	7.4		
\	3.0		
\E	0.4		
TYLBENZENE	4.6		
THALENE	1.7		
ROMATIC	1.0		
ROMATIC	1.1		
ROMATIC	2.9		
TIFIED VOC			
NTIFIED VOC	0.6		
NS	335.3		
S	57.9		
AROMATICS	188.2		
TIFIED VOC	0.6		
MHC	581.7		

Winter Composite Unleaded Premium - Liquid Sample

SITE 1
MASTER LOG NO: UPC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)
PARAFFINS	
C-2 VOC	0.9
ISOBUTANE	18.3
N-BUTANE	43.6
ISOPENTANE	41.9
N-PENTANE	11.1
NEOHEXANE	1.1
CYCLOPENTANE	2.9
2,3-DIMETHYLBUTANE	9.2
ISOHEXANE	17.2
3-METHYLPENTANE	11.2
N-HEXANE	9.1
METHYLCYCLOPENTANE	12.7
2,4-DIMETHYLPENTANE	9.6
CYCLOHEXANE	2.3
ISOHEPTANE	25.8
3-METHYLHEXANE	10.8
N-HEPTANE	11.8
METHYLCYCLOHEXANE	4.9
2,5-DIMETHYLHEXANE	14.2
2,3,4-TRIMETHYLPENTANE	17.6
3,5,5-TRIMEHEXANE	8.4
3-METHYLHEPTANE	8.1
2,2,5-TRIMETHYLHEXANE	7.4
N-OCTANE	6.7
N-NONANE	3.5
N-UNDECANE	1.1
C6 ALKANE	0.4
C7 ALKANE	2.5
C8 ALKANE	44.9
C8 ALKANE	1.8
C8 ALKANE	1.2
C8 ALKANE	0.9
C9 ALKANE	1.9
C9 ALKANE	1.4
C9 ALKANE	1.3
C9 ALKANE	2.4
C10+ ALKANE	1.3
C10+ ALKANE	0.5
C10+ ALKANE	0.8
C10+ ALKANE	3.5
C10+ ALKANE	3.0
C10+ ALKANE	2.0
C10+ ALKANE	0.9
C10+ ALKANE	1.0
C10+ ALKANE	1.4
C10+ ALKANE	4.6
OLEFINS	
ISOBUTENE + 1-BUTENE	1.6
T-2-BUTENE	2.2
C-2-BUTENE	2.3
1-PENTENE	1.9
2-METHYL-1-BUTENE	3.0
T-2-PENTENE	4.6
C-2-PENTENE	2.4
2-METHYL-2-BUTENE	7.7
CYCLOPENTENE	1.3
T-4-METHYL-2-PENTENE	1.2
1-HEXENE	1.9
T-2-HEXENE	4.1
C-2-HEXENE	1.3
2,4,4-TRIME-1-PENTENE	0.8
1-METHYLCYCLOHEXENE	8.5
C-2-OCTENE	0.3
1-NONENE	0.6
A-PINENE	0.6
B-PINENE	0.8
1-UNDECENE	0.9
C6 ALKENE	4.6
C7 ALKENE	0.4
C7 ALKENE	1.9
C8 ALKENE	0.5
C8 ALKENE	0.5
C9 ALKENE	2.7

Winter Composite Unleaded Premium - Liquid Sample (cont.)

SITE 1
MASTER LOG NO: UFC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)	COMPOUND	CONCENTRATION (MG-C/G)
TOTAL AROMATICS			
BENZENE	16.6		
TOLUENE	103.5		
ETHYLBENZENE	17.1		
P-XYLENE/M-XYLENE	76.9		
O-XYLENE	29.3		
ISOPROPYLBENZENE	1.5		
N-PROPYLBENZENE	4.7		
M-ETHYLTOLUENE	24.4		
1,3,5-TRIMETHYLBENZENE	9.4		
O-ETHYLTOLUENE	8.9		
1,2,4-TRIMETHYLBENZENE	27.8		
ISOBUTYLBENZENE	1.5		
1,2,3-TRIMETHYLBENZENE	8.8		
INDAN	3.1		
INDENE	3.9		
T-BUTYLBENZENE	5.8		
NAPHTHALENE	1.7		
C9 AROMATIC	1.2		
C9 AROMATIC	0.8		
C9 AROMATIC	0.5		
C9 AROMATIC	9.8		
C10+ AROMATIC	0.9		
PARAFFINS	367.1		
OLEFINS	58.6		
TOTAL AROMATICS	355.1		
TOTAL ANHC	800.8		

Winter Composite - Leaded Premium - Liquid Sample

SITE 1
MASTER LOG NO: LEC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)
PARAFFINS	
C-2 VOC	0.4
ISOBUTANE	17.8
N-BUTANE	53.6
ISOPENTANE	66.8
N-PENTANE	21.1
NEOHEXANE	0.9
CYCLOPENTANE	3.9
2,3-DIMETHYLBUTANE	5.5
ISOHEXANE	35.5
3-METHYLPENTANE	22.0
N-HEXANE	15.4
METHYLCYCLOPENTANE	33.0
2,4-DIMETHYLPENTANE	4.1
CYCLOHEXANE	8.2
ISOHEPTANE	27.6
3-METHYLHEXANE	18.4
N-HEPTANE	10.5
METHYLCYCLOHEXANE	13.3
2,5-DIMETHYLHEXANE	4.5
2,3,4-TRIMETHYLPENTANE	0.9
2,5,5-TRIMEHEXANE	8.6
3-METHYLHEPTANE	8.6
2,2,5-TRIMETHYLHEXANE	0.6
N-OCTANE	5.7
N-NONANE	3.6
N-DECANE	2.8
N-UNDECANE	2.5
C7 ALKANE	9.4
C7 ALKANE	8.1
C8 ALKANE	12.0
C8 ALKANE	1.4
C8 ALKANE	2.4
C8 ALKANE	2.4
C9 ALKANE	0.7
C9 ALKANE	5.7
C9 ALKANE	2.6
C9 ALKANE	5.1
C10+ ALKANE	2.7
C10+ ALKANE	1.1
C10+ ALKANE	6.0
PARAFFINS (CONT'D)	
C10+ ALKANE	5.5
C10+ ALKANE	3.8
C10+ ALKANE	2.3
C10+ ALKANE	3.1
C10+ ALKANE	1.9
OLEFINS	
3-METHYL-1-BUTENE	0.3
1-PENTENE	1.0
2-METHYL-1-BUTENE	1.6
T-2-PENTENE	3.0
C-2-PENTENE	1.5
2-METHYL-2-BUTENE	4.4
CYCLOPENTENE	3.8
2-METHYL-1-PENTENE	1.2
T-2-HEXENE	3.1
C-2-HEXENE	0.8
2,4,4-TRIME-1-PENTENE	0.3
1-METHYLCYCLOHEXENE	1.6
A-PINENE	0.9
B-PINENE	2.0
1-UNDECENE	2.2
C6 ALKENE	3.0
C7 ALKENE	1.0
C8 ALKENE	0.4
C9 ALKENE	1.7
C9 ALKENE	1.5
TOTAL AROMATICS	
BENZENE	12.1
TOLUENE	49.3
ETHYLBENZENE	12.9
P-XYLENE/M-XYLENE	53.5
O-XYLENE	21.9
ISOPROPYLBENZENE	2.0
N-PROPYLBENZENE	5.6
M-ETHYLTOLUENE	24.5
1,3,5-TRIMETHYLBENZENE	9.5

Winter Composite - Leaded Premium - Liquid Sample (cont.)

SITE 1
MASTER LOG NO: LPC
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/10/84

COMPOUND	CONCENTRATION (MG-C/G)	COMPOUND	CONCENTRATION (MG-C/G)
TOTAL AROMATICS (CONT'D)			
O-ETHYLTOLUENE	10.0		
1,2,4-TRIMETHYLBENZENE	27.9		
1,2,3-TRIMETHYLBENZENE	10.0		
INDAN	4.3		
INDENE	0.4		
M-DIETHYLBENZENE	5.9		
N-BUTYLBENZENE	8.2		
NAPHTHALENE	1.7		
C10+ AROMATIC	1.5		
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	0.4		
PARAFFINS	473.0		
OLEFINS	32.3		
TOTAL AROMATICS	260.2		
UNIDENTIFIED VOC	0.4		
TOTAL NMHC	765.9		

Winter Composite Unleaded Regular - Vapor Headspace Sample

SITE 1
MASTER LOG NO: URG -FS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: 1/11/84
DATE ANALYZED: ~~01/17/84~~

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	2.6
C-3 VOC	46.4
ISOBUTANE	382.3
N-BUTANE	747.0
ISOPENTANE	362.3
N-PENTANE	113.9
NEOHEXANE	5.1
CYCLOPENTANE	13.4
2,3-DIMETHYLBUTANE	19.6
ISOHEXANE	61.9
3-METHYLPENTANE	37.5
N-HEXANE	28.1
METHYLCYCLOPENTANE	37.3
2,4-DIMETHYLPENTANE	14.3
CYCLOHEXANE	6.6
ISOHEPTANE	37.5
3-METHYLHEXANE	15.9
N-HEPTANE	12.8
METHYLCYCLOHEXANE	7.3
2,5-DIMETHYLHEXANE	6.0
2,3,4-TRIMETHYLPENTANE	4.1
3,5,5-TRIMEHEXANE	5.5
3-METHYLHEPTANE	5.9
2,2,5-TRIMETHYLHEXANE	3.4
N-OCTANE	3.2
C7 ALKANE	1.1
C7 ALKANE	1.4
C7 ALKANE	5.6
C7 ALKANE	4.5
C8 ALKANE	5.3
C8 ALKANE	18.5
C8 ALKANE	0.8
C8 ALKANE	0.6
C8 ALKANE	2.0
C8 ALKANE	1.1
C8 ALKANE	0.7
C9 ALKANE	1.4
C9 ALKANE	1.0
C9 ALKANE	1.7
C9 ALKANE	1.8

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS (CONT'D)	
C9 ALKANE	1.7
C10+ ALKANE	1.3
C10+ ALKANE	0.1
OLEFINS	
ISOBUTENE + 1-BUTENE	35.0
T-2-BUTENE	31.9
C-2-BUTENE	22.8
3-METHYL-1-BUTENE	6.1
1-PENTENE	16.7
2-METHYL-1-BUTENE	20.7
T-2-PENTENE	25.3
C-2-PENTENE	12.9
2-METHYL-2-BUTENE	37.3
CYCLOPENTENE	5.8
T-4-METHYL-2-PENTENE	4.4
1-HEXENE	7.5
T-2-HEXENE	9.7
C-2-HEXENE	2.8
2,4,4-TRIME-1-PENTENE	0.9
1-METHYLCYCLOHEXENE	3.7
1-OCTENE	1.0
C-2-OCTENE	0.5
1-NONENE	0.6
C6 ALKENE	0.3
C6 ALKENE	1.7
C6 ALKENE	9.9
C8 ALKENE	1.9
C8 ALKENE	3.2
C8 ALKENE	0.4
TOTAL AROMATICS	
BENZENE	30.1
TOLUENE	37.6
ETHYLBENZENE	4.8
P-XYLENE/M-XYLENE	15.8
O-XYLENE	7.8
M-ETHYLTOLUENE	1.7

Winter Composite Unleaded Regular - Vapor Headspace Sample (cont.)

SITE 1
MASTER LOG NO: LRC -FS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: 1/11/84
DATE ANALYZED: ~~1/17/84~~

COMPOUND	CONCENTRATION (PPTHV-C)	COMPOUND	CONCENTRATION (PPTHV-C)
TOTAL AROMATICS (CONT'D)			
1,3,5-TRIMETHYLBENZENE	0.2		
O-ETHYLTOLUENE	0.2		
1,2,4-TRIMETHYLBENZENE	0.8		
1,2,3-TRIMETHYLBENZENE	0.3		
TOTAL HALOGENATED HC			
1,1,2-TRICHLOROETHANE	0.6		
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.1		
PARAFFINS	2028.4		
OLEFINS	263.0		
TOTAL AROMATICS	98.3		
TOTAL HALOGENATED HC	0.6		
UNIDENTIFIED VOC	0.3		
TOTAL NMHC	2390.6		

Winter Composite Leaded Regular - Vapor Headspace Sample

SITE 1
MASTER LOG NO: LRC -1S
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/11/84

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	3.2
C-3 VOC	55.5
ISOBUTANE	404.0
N-BUTANE	591.0
ISOPENTANE	341.0
N-PENTANE	152.0
NEOHEXANE	5.7
CYCLOPENTANE	23.1
2,3-DIMETHYLBUTANE	19.7
ISOHEXANE	75.7
3-METHYLPENTANE	45.8
N-HEXANE	48.9
METHYLCYCLOPENTANE	59.0
2,4-DIMETHYLPENTANE	11.7
CYCLOHEXANE	13.5
ISOHEPTANE	38.5
3-METHYLHEXANE	19.1
N-HEPTANE	18.9
METHYLCYCLOHEXANE	13.8
2,5-DIMETHYLHEXANE	5.4
3,5,5-TRIMEHEXANE	7.9
3-METHYLHEPTANE	8.8
2,2,5-TRIMETHYLHEXANE	2.2
N-OCTANE	5.0
N-NONANE	0.9
N-DECANE	0.2
C7 ALKANE	8.8
C7 ALKANE	6.9
C7 ALKANE	9.5
C8 ALKANE	14.3
C9 ALKANE	0.4
C8 ALKANE	3.0
C8 ALKANE	2.2
C8 ALKANE	1.0
C9 ALKANE	1.8
C9 ALKANE	0.6
C9 ALKANE	1.4
C9 ALKANE	1.3
C9 ALKANE	1.0
C10+ ALKANE	0.1
PARAFFINS (CONT'D)	
C10+ ALKANE	0.1
C10+ ALKANE	0.2
C10+ ALKANE	0.2
OLEFINS	
ISOBUTENE + 1-BUTENE	59.3
T-2-BUTENE	50.4
C-2-BUTENE	37.5
3-METHYL-1-BUTENE	8.6
1-PENTENE	24.4
2-METHYL-1-BUTENE	27.2
T-2-PENTENE	33.1
C-2-PENTENE	17.0
2-METHYL-2-BUTENE	48.7
CYCLOPENTENE	7.8
T-4-METHYL-2-PENTENE	6.0
1-HEXENE	13.7
2-METHYL-2-PENTENE	4.8
T-2-HEXENE	10.2
C-2-HEXENE	3.9
3-HEPTENE	1.5
2,4,4-TRIME-1-PENTENE	1.1
1-METHYLCYCLOHEXENE	4.2
1-OCTENE	1.3
C-2-OCTENE	0.2
C6 ALKENE	0.5
C6 ALKENE	2.3
C6 ALKENE	14.6
C7 ALKENE	3.5
C7 ALKENE	1.4
C7 ALKENE	1.8
C8 ALKENE	3.5
C8 ALKENE	3.2
C8 ALKENE	1.2
C8 ALKENE	3.1
C9 ALKENE	1.5
C9 ALKENE	1.5
C9 ALKENE	2.6

Winter Composite Leaded Regular - Vapor Headspace Sample (cont.)

SITE 1
MASTER LOG NO: LRC -HS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/11/94

COMPOUND	CONCENTRATION (PPTHV-C)	COMPOUND	CONCENTRATION (PPTHV-C)
TOTAL AROMATICS			
BENZENE	42.9		
TOLUENE	46.1		
ETHYLBENZENE	3.2		
P-XYLENE/M-XYLENE	11.1		
O-XYLENE	3.6		
ISOPROPYLBENZENE	0.2		
N-PROPYLBENZENE	0.5		
M-ETHYLTOLUENE	2.0		
1,3,5-TRIMETHYLBENZENE	0.7		
O-ETHYLTOLUENE	0.7		
1,2,4-TRIMETHYLBENZENE	2.0		
1,2,3-TRIMETHYLBENZENE	0.8		
INDAN	0.2		
M-DIETHYLBENZENE	0.1		
N-BUTYLBENZENE	0.2		
NAPHTHALENE	0.2		
C9 AROMATIC	0.6		
TOTAL HALOGENATED HC			
CHLOROBENZENE	0.7		
O-CHLOROTOLUENE	0.1		
**TOTAL OXYGENATED HC			
ISOVALERALDEHYDE	0.8		
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	0.3		
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.1		
PARAFFINS	2223.3		
OLEFINS	391.6		
TOTAL AROMATICS	115.1		
TOTAL HALOGENATED HC	0.8		
TOTAL OXYGENATED HC	3.4**		
UNIDENTIFIED VOC	0.6		

Winter Composite Unleaded Premium - Vapor Headspace Sample

SITE 1
MASTER LOG NO: UFC -FS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/11/83

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
-2 VOC	1.3
-3 VOC	41.4
SOBUTANE	386.0
-BUTANE	609.0
SOPENTANE	241.0
-PENTANE	48.5
CYCLOPENTANE	4.0
,3-DIMETHYLBUTANE	5.3
SOHEXANE	20.8
-METHYLPENTANE	34.5
-HEXANE	20.9
ETHYLCYCLOPENTANE	13.6
,4-DIMETHYLPENTANE	17.3
YCLOHEXANE	11.0
>OPENTANE	2.1
-METHYLHEXANE	21.0
-HEPTANE	6.3
ETHYLCYCLOHEXANE	7.3
,5-DIMETHYLHEXANE	2.7
,3,4-TRIMETHYLPENTANE	6.5
,5,5-TRIMEHEXANE	6.5
-METHYLHEPTANE	2.7
2,5-TRIMETHYLHEXANE	2.4
OCTANE	2.0
ONANE	1.2
ALKANE	0.1
ALKANE	0.5
ALKANE	0.6
ALKANE	2.0
ALKANE	1.5
ALKANE	1.3
ALKANE	29.1
ALKANE	0.4
ALKANE	0.2
ALKANE	0.2
ALKANE	0.2
ALKANE	0.1

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS	
ISOBUTENE + 1-BUTENE	43.7
T-2-BUTENE	40.8
C-2-BUTENE	30.2
3-METHYL-1-BUTENE	4.8
1-PENTENE	11.0
2-METHYL-1-BUTENE	17.6
T-2-PENTENE	21.3
C-2-PENTENE	19.9
2-METHYL-2-BUTENE	29.0
CYCLOPENTENE	4.2
T-4-METHYL-2-PENTENE	2.9
1-HEXENE	4.0
2-METHYL-2-PENTENE	2.1
T-2-HEXENE	4.5
C-2-HEXENE	1.7
2,4,4-TRIME-1-PENTENE	0.4
2,4,4-TRIME-2-PENTENE	0.6
1-METHYLCYCLOHEXENE	3.1
1-OCTENE	0.3
4-NONENE	0.2
C6 ALKENE	0.2
C6 ALKENE	1.2
C6 ALKENE	6.5
C7 ALKENE	0.1
C8 ALKENE	1.1
C8 ALKENE	0.2
C8 ALKENE	0.2
C8 ALKENE	0.2
C9 ALKENE	0.4
TOTAL AROMATICS	
BENZENE	25.0
TOLUENE	45.3
ETHYLBENZENE	2.0
P-XYLENE/M-XYLENE	7.5
O-XYLENE	2.3
ISOPROPYLBENZENE	0.1
N-PROPYLBENZENE	0.2
M-ETHYLTOLUENE	1.0

Winter Composite Leaded Premium - Vapor Headspace Sample

SITE 1
MASTER LOG NO: LPC -FS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/11/84

COMPOUND	CONCENTRATION (PPTHV-C)
PARAFFINS	
C-2 VOC	0.9
C-3 VOC	10.8
ISOBUTANE	403.0
N-BUTANE	814.0
ISOPENTANE	415.0
N-PENTANE	101.0
NEOHEXANE	3.4
CYCLOPENTANE	12.2
2,3-DIMETHYLBUTANE	14.9
ISOHEXANE	84.4
3-METHYLPENTANE	47.5
N-HEXANE	28.0
METHYLCYCLOPENTANE	57.4
2,4-DIMETHYLPENTANE	6.4
CYCLOHEXANE	13.2
ISOHEPTANE	28.3
3-METHYLHEXANE	17.7
N-HEPTANE	8.5
METHYLCYCLOHEXANE	10.5
2,5-DIMETHYLHEXANE	2.5
3,5,5-TRIMEHEXANE	3.2
3-METHYLHEPTANE	3.2
2,2,5-TRIMETHYLHEXANE	0.2
N-OCTANE	1.6
N-DECANE	0.1
C7 ALKANE	9.7
C7 ALKANE	8.0
C8 ALKANE	12.3
C8 ALKANE	0.2
C8 ALKANE	1.7
C9 ALKANE	1.3
C9 ALKANE	0.3
C9 ALKANE	0.1
C10+ ALKANE	0.5
	0.1

COMPOUND	CONCENTRATION (PPTHV-C)
OLEFINS	
ISOBUTENE + 1-BUTENE	10.1
T-2-BUTENE	9.9
C-2-BUTENE	9.2
3-METHYL-1-BUTENE	2.1
1-PENTENE	5.8
2-METHYL-1-BUTENE	5.6
T-2-PENTENE	14.9
C-2-PENTENE	7.6
2-METHYL-2-BUTENE	21.8
CYCLOPENTENE	3.0
2-METHYL-1-PENTENE	3.9
2-METHYL-2-PENTENE	2.2
T-2-HEXENE	3.9
C-2-HEXENE	1.5
2,4,4-TRIME-1-PENTENE	0.3
1-METHYLCYCLOHEXENE	0.8
C6 ALKENE	0.1
C6 ALKENE	0.9
C6 ALKENE	5.6
C7 ALKENE	0.9
C8 ALKENE	1.0
C8 ALKENE	0.5
C8 ALKENE	0.2
C9 ALKENE	1.2
C9 ALKENE	0.5
C9 ALKENE	0.4
TOTAL AROMATICS	
BENZENE	25.2
TOLUENE	26.1
ETHYLBENZENE	1.7
P-XYLENE/M-XYLENE	6.0
O-XYLENE	2.0
ISOPROPYLBENZENE	0.1
N-PROPYLBENZENE	0.3
M-ETHYLTOLUENE	1.1
1,3,5-TRIMETHYLBENZENE	0.4
O-ETHYLTOLUENE	1.4
1,2,4-TRIMETHYLBENZENE	1.1

Winter Composite Leaded Premium - Vapor Headspace Sample (cont.)

SITE 1
MASTER LOG NO: LPC -FS
SAMPLE TYPE:

SAMPLING TECHNIQUE:

DATE SAMPLED: .
DATE ANALYZED: 01/11/84

COMPOUND	CONCENTRATION (PPTHV-C)	COMPOUND	CONCENTRATION (PPTHV-C)
TOTAL AROMATICS (CONT'D)			
1,2,3-TRIMETHYLBENZENE	0.8		
INDAN	0.1		
NAPHTHALENE	0.2		
C9 AROMATIC	0.2		
UNIDENTIFIED VOC			
UNIDENTIFIED VOC	0.4		
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.1		
UNIDENTIFIED VOC	0.2		
PARAFFINS	2122.0		
OLEFINS	113.1		
TOTAL AROMATICS	65.7		
UNIDENTIFIED VOC	9.9		
TOTAL NMHC	2301.7		

ANALYTICAL RESULTS
ENAMEL COMPOSITE SAMPLE
SURFACE COATING FACILITY

MS SPECTRUM NUMBER	GC RT	GC-MS IDENTIFICATION	Concentration* by GC-FID [mg cpd / g Distillate]	Weight % of Total
	3.09	UNKNOWN	11.58	79.92% IDENTIFIED
	3.43	"	5.02	20% UNKNOWN
	3.48	"	3.67	
	3.61	"	10.78	
	3.83	"	4.40	
14	4.02	n-HEPTANE	14.43	2.50
37	4.44	CYCLOHEXANONE	20.97	3.63
	4.67	UNKNOWN	3.24	
58	4.88	METHYL ISOBUTYL KETONE	14.50	2.51
	4.96	UNKNOWN	8.84	
NA	5.41	TOLUENE	64.64	11.18
	5.57	UNKNOWN	3.52	
99	5.71	C_4-ACETATE	23.45	4.06
	6.25	UNKNOWN	8.27	
152	6.79	n-BUTYLACETATE	12.56	2.17
NA	7.94	XYLENE	25.65	4.44
NA	8.18	XYLENE	87.5	15.14
259	8.87	HEPTANONE	33.47	5.79
	8.95	UNKNOWN	7.86	
	9.09	"	4.26	
	9.40	"	41.32	
297	9.61	2-METHYL-3-HEXANONE	152.1	26.3
362	10.91	ETHYL METHYL BENZENE	8.15	1.4
	10.95	UNKNOWN	3.52	
409	11.85	C_3 BENZENE	4.49	0.8
			578	

NA: NOT AVAILABLE

* As Octane avg density of 0.8 assumed for calculations (.4032g Ext ÷ .8 g/mL = .504)

ANALYTICAL RESULTS
SURFACE COATING MANUFACTURER
ENAMEL COMPOSITE

MS SPECTRUM NUMBER	GC RT	GC-MS IDENTIFICATION	Concentration by GC-FID *		% of total
139	2.71	Acetone	52.7	(70.13)	9.2
223	3.67	Methyl ethyl ketone	22.17	(29.56)	3.9
244	3.99	Ethyl acetate	84.38	(112.5)	14.8
	4.95	Unknown	80.62	(107.5)	14.1
495	7.54	Toluene	83.80	(111.7)	14.7
	8.26	Unknown	9.61	(12.8)	1.7
578	8.64	n-Butyl acetate	52.04	(69.4)	9.1
674	9.94	Ethyl benzene	22.07	(29.4)	3.9
691	10.13	m+p-Xylene	82.60	(110.1)	14.5
734	10.73	o-Xylene	19.27	(25.69)	3.4
751	10.90	C_5 Ester	51.7	(68.93)	9.1
	13.04	Unknown	9.19	(12.25)	1.6

82.6% identified

* Calculated against MIBK Standard
Given as mg cpd/ml of distillate (in parentheses mg cpd/g of distillate - assuming a density of .75 g/cc)

RESULTS

DIMPOSITE SAMPLE
ING FACILITY

ENTIFICATION	Concentration* by GC-FID [mg cpd/g Distillate]	WEIGHT % of TOTAL
		86.1% identified 13.1% unknown
	17.25	
	8.02	
	18.54	
	6.61	1.69
CLOHEXANE	8.50	2.17
	151	38.5
D HYDROCARBON	8.61	2.20
CLOHEXANE	12.3	3.14
	4.50	
	3.38	
YCLOHEXANE	5.88	1.50
EXANE	37.8	9.64
YCLOHEXANE	3.19	0.80
ETATE	28.7	7.32
EPTANE	3.52	0.90
D HEXANE	7.12	1.81
YCLOHEXANE	8.29	2.11
	4.92	1.26
	7.59	1.94
TANE	3.06	0.80
ENTANE	9.08	2.31
LOSOLVE	34.5	8.80
	392	

...used for calculations

ANALYTICAL RESULTS
SURFACE COATING MANUFACTURER
ADHESIVE COMPOSITE

FROM	GC RT	GC-MS IDENTIFICATION	Concentration* by GC+FID		% of TOTAL
	2.26	Acetone	98.55	(131.4)	13.2
	3.13	Hexane	6.83	(9.1)	0.9
	3.36	Unknown	.68	(.90)	.09
	3.68	Methyl butane	417.2	(556.2)	55.7
	3.72	Methyl ethyl ketone	82.75	(110.6)	11.1
	4.28	Methyl cyclopentane	23.8	(31.7)	3.2
	5.06	Unknown	.28	(.37)	.04
	6.04	Butanediol	83.7	(111.6)	11.1
	6.93	Methyl isobutyl ketone	6.04	(8.05)	0.8
	6.98	Unknown	3.59	(4.79)	.48
	7.68	Toluene	25.7	(34.2)	3.4

99.4% identified

culated against MIBK Standard
ncentration given in mg cpd/ml of distillate (in parentheses
g cpd/g of distillate - assuming a density of .75 g/ml)

ASPHALTS--SLOW CURE
AND MEDIUM CURE

SC-800

1494		18.88	Alkyl substituted indan		2.26	3.92
		19.07	Unknown		1.26	2.18
1524		19.31	Alkyl substituted indan		1.44	2.50
1546	?	19.60		Tetramethyldecane	1.34	2.32
1592		20.20	Methyl naphthalene		2.97	5.15
1596	?	20.27	Tridecane		1.36	2.36
1624		20.64	Methyl naphthalene		1.40	2.43
					57.67 µg	25.67% Unknown
					?	74.33% Identified

RESULTS

SALE MC-250

FICATION	Concentration* by GC-FID [ug cpd/g Asphalt]	wt.% of Total
exane	5.76	1.76
	17.5	5.35
	15.3	4.68
clohexane	9.40	2.88
lohexane	12.0	3.67
	6.31	1.93
	7.58	2.31
	23.4	7.16
ne	5.67	1.74
	5.69	1.74
	10.2	3.12
	28.6	8.76
lohexane	9.07	2.78
clohexane	5.73	1.75
e	11.0	3.37
	6.94	2.12
	14.7	4.50
	7.89	2.42
ene	8.03	2.46
	7.48	2.29
	4.96	1.52
ne	11.0	3.37
	7.88	2.41

*Dodecane for RTs 9.40-14.93

			(dimethyl?)		
1089	11.74	C_4 alkyl cyclohexane	14.0		4.29
1106	11.99	n-Decane	34.0		10.4
1198	12.63 }	C_4 alkyl benzenes	12.1		3.70
	12.67 }	(propyl toluenes?)	13.1		4.10
	13.15	Unknown	5.62		1.72
1287	14.93	n-Undecane	5.81		1.78
		TOTAL	326.67 µg		20.63% unknown
					79.37% identified

~.03% VOLATILES

NOTE: This list does not represent EVERY peak/compound present in the chromatograms. It represents the MAJOR peaks/compounds.

ARCHITECTURAL SURFACE COATING--
WATER-BASED COATING

TABLE 1. GC-MS RESULTS FOR ARB PAINT DISTILLATE: ORGANIC LAYER

Compound[1]	Organic Distillate[2] (µg/mL)	Total Distillate[2] (µg/mL)	Sample[2] (µg/mL)	Confidence Level[3]
1-Chlorobutane	38,000	680	360	2
1-Butanol	4,600	82	44	2
Benzene	6,000	110	57	3
2-Methyl-2-propanoic acid, methyl ester	2,000	36	19	2
Unknown	2,000	36	19	--
Dibutyl ether	4,100	74	39	2
Decane	3,700	66	35	2
3-(Chloromethyl)-heptane	11,000	190	100	2
C_{11}-Branched alkane	4,400	78	42	2
C_{11}-Branched alkane	5,300	95	51	2
C_{11}-Branched alkane	3,900	70	37	2
C_{11}-Branched alkane	3,700	66	35	2
Undecane	2,000	36	19	2
Propylcyclohexanone	18,000	320	170	1
2-Methylpropanoic acid, 2,2-dimethyl-1-(2-hydroxy-1-methylethyl) propyl ester	400,000	7,100	3,800	1
2-Methylpropanoic acid, 3-hydroxy-2,4,4-trimethyl-pentyl ester	410,000	7,300	3,900	1
Unknown	3,000	54	29	--
2-Butyltetrahydrofuran	2,600	46	25	2

[1]In order of elution.

[2]All concentrations relative to d_8-Toluene assuming a response factor of 1 and based on total ion area. Organic distillate = 2.0 mL, Total distillate = 112 mL Sample = 210 mL.

[3]Confidence Levels: 1 = Tentative
2 = Probable
3 = Confirmed.

TABLE 2. GC-MS RESULTS FOR ARB PAINT DISTILLATE: AQUEOUS LAYER

Compound[1]	Aqueous Distillate[2] (µg/mL)	Total Distillate[2] (µg/mL)	Sample[2] (µg/mL)	Confidence Level[3]
Chloromethane	170	170	88	2
Chloroethane	190	190	100	2
Dichloromethane	1,700	1,700	890	2
Ethylisopropyl ether	1,600	1,600	850	1
1-Ethoxy-2-propanol	460	450	240	1
1-Butanol	6,200	6,100	3,200	2
2-Hetpanol	250	240	130	2
2-Methyl-2,4-pentanediol	450	440	240	2
Ethylene glycol diethyl ether	190	180	98	1
2-Ethyl-1-hexanol	320	310	170	2
2-(2-Butoxyethoxy)-ethanol	240	240	130	2
2-Methylpropanoic acid, 2,2 dimethyl-1-(2-hydroxy-1-methylethyl) propyl ester	1,200	1,200	640	1
2-Methylpropanoic acid, 3-hydroxy-2,4,4-trimethyl-pentyl ester	1,500	1,500	790	1
2-Methylpropanoic acid, 1-methylbutyl ester	120	110	61	1

[1]In order of elution.

[2]All concentrations relative to d_6-Phenol assuming a response factor of 2 and based on total ion area. Aqueous distillate = 110 mL, Total distillate = 112 mL Sample = 210 mL.

[3]Confidence Levels: 1 = Tentative
2 = Probable
3 = Confirmed.

ARCHITECTURAL SURFACE COATING--SOLVENT USAGE

ALYTICAL RESULTS

TECTURAL SURFACE COATING -
SOLVENT SAMPLE

IS	IDENTIFICATION	Concentration by GC FID (mg/g)	Weight % of Total
	thyl Ethyl ketone	23.9	2.39
	ropanol	28.9	2.89
	lkylene chloride	7.2	0.72
	ptane	18.1	1.81
	thyl cyclohexane	39.6	3.96
	luene	89.6	8.96
	thyl acetate or C_6-ester	30.7	3.07
	-Butyl acetate	23.9	2.39
	kane + ethyl benzene	11.0	1.10
	p-Xylene	16.0	0.63/1.97
	thyl heptene	13.3	1.33
	branched alkane	12.2	1.22
	branched alkane	13.2	1.32
	branched alkane	16.0	1.60
	cyclohexane + alkene	23.5	2.35
	ketone		
	pinene	26.2	2.62
	thylcyclohexane	17.6	1.76
	alkane	15.1	1.51
	alkene	33.0	3.30
	substituted hexane	17.0	1.70
	cyclohexane	17.0	1.70
	Alkene	9.3	0.93
	ethyl cyclohexane	29.3	2.93

1038	15.46	C_{10} Alkane	7.0	0.70
1093	16.08	$C_{11}H_{24}$ alkane	9.6	0.96
1112	16.36	C_4 cyclohexane + C_5 cyclohexane	10.7	1.07
1161	17.08	Carvomenthol + carane	9.0	0.90
1227	18.04	Undecane	14.8	1.48
1269	18.67	Isopulegon	6.2	0.62
				58.9% identified

SOLVENT

INTERNAL COMBUSTION ENGINE--
RECIPROCATING-NATURAL GAS

ANALYTICAL RESULTS
IC ENGINE EXHAUST GAS
09-15-1983

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
METHANE	724000.0
ETHANE	191000.0
PROPANE	7540.0
ISOBUTANE	315.0
N-BUTANE	570.7
ISOPENTANE	137.3
N-PENTANE	105.5
NEOHEXANE	27.9
CYCLOPENTANE	20.9
2,3-DIMETHYLBUTANE	16.9
ISOHEXANE	102.4
3-METHYLPENTANE	93.2
N-HEXANE	123.5
METHYLCLCLOPENTANE	133.0
2,4-DIMETHYLPENTANE	11.6
CYCLOHEXANE	65.9
ISOHEPTANE	109.0
3-METHYLHEXANE	52.4
2,2,4-TRIMETHYLPENTANE	90.9
N-HEPTANE	120.4
METHYLCYCLOHEXANE	201.1
2,5-DIMETHYLHEXANE	12.0
2,3,4-TRIMETHYLPENTANE	41.3
3-METHYLHEPTANE	118.3
2,2,5-TRIMETHYLHEXANE	31.3
N-OCTANE	110.4
N-NONANE	101.0
N-DECANE	63.4
N-UNDECANE	61.4
C7 ALKANE	49.4
C7 ALKANE	44.0
C8 ALKANE	39.5
C8 ALKANE	27.7
C8 ALKANE	32.2
C8 ALKANE	11.6
C9 ALKANE	76.7
C9 ALKANE	24.7
C9 ALKANE	8.5
C9 ALKANE	53.2
C9 ALKANE	41.9
C9 ALKANE	28.3
C10+ ALKANE	10.8
C10+ ALKANE	30.6
C10+ ALKANE	10.1

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS (con't)	
C10+ ALKANE	12.1
C10+ ALKANE	11.7
C10+ ALKANE	12.0
OLEFINS	
ACETYLENE	2720.0
PROPYLENE	9950.0
ISOBUTENE	502.1
1,3-BUTADIENE	111.1
T-2-BUTENE	52.1
C-2-BUTENE	19.0
2-METHYL-2-BUTENE	18.4
CYCLOPENTENE	36.7
2-METHYL-1-PENTENE	6.9
2-METHYL-2-PENTENE	9.9
T-2-HEXENE	5.4
1-METHYLCYCLOHEXENE	14.4
1-OCTENE	37.3
1-NONENE	54.4
B-PINENE	28.7
1-DECENE	9.0
LIMONENE	38.5
1-UNDECENE	26.6
C9 ALKENE	79.0
C9 ALKENE	12.6
C9 ALKENE	31.4
C10+ ALKENE	28.1
C10+ ALKENE	15.7
C10+ ALKENE	42.4
C10+ ALKENE	27.7
C10+ ALKENE	18.7
C10+ ALKENE	18.7
C10+ ALKENE	26.7
C10+ ALKENE	31.6
C10+ ALKENE	7.6
TOTAL AROMATICS	
BENZENE	634.1
TOLUENE	139.3
ETHYLBENZENE	57.4
M-XYLENE	117.2
STYRENE	44.4

ANALYTICAL RESULTS
IC ENGINE EXHAUST GAS
09-15-1983

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS (con't)	
O-XYLENE	45.8
ISOPROPYLBENZENE	6.7
N-PROPYLBENZENE	22.7
O-ETHYLTOLUENE	50.2
1,2,4-TRIMETHYLBENZENE	87.1
ISOBUTYLBENZENE	9.6
INDENE	9.1
M-DIETHYLBENZENE	12.9
N-BUTYLBENZENE	19.0
P-DIETHYLBENZENE	18.2
C10+ AROMATIC	14.5
C10+ AROMATIC	26.6
C10+ AROMATIC	13.0
C10+ AROMATIC	13.2
C10+ AROMATIC	10.1
C10+ AROMATIC	12.7
C10+ AROMATIC	20.1

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL OXYGENATED HC	
BUTYRALDEHYDE	30.7
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	27.1
UNIDENTIFIED VOC	92.0
UNIDENTIFIED VOC	101.5
SUMMARY	
ALKANES	201899.9
ALKENES	13979.3
AROMATICS	1485.8
OXYGENATED VOCs	30.7
UNIDENTIFIED VOCs	220.4
TOTAL HC	217616.1

ANALYTICAL RESULTS
IC ENGINE EXHAUST GAS
12-21-1983

COMPOUND	CONCENTRATION (PPBV-C)
PARAFFINS	
METHANE	1000000.0
ETHANE	124350.0
PROPANE	73150.0
ISOBUTANE	12200.0
N-BUTANE	28400.0
ISOPENTANE	3500.0
N-PENTANE	3710.0
CYCLOPENTANE	552.0
2,3-DIMETHYLEUTANE	186.0
ISOHEXANE	412.0
3-METHYLPENTANE	334.0
N-HEXANE	437.0
METHYLCYCLOPENTANE	897.0
2,4-DIMETHYLPENTANE	186.0
CYCLOHEXANE	220.0
ISOHEFTANE	446.0
3-METHYLHEXANE	118.0
N-HEFTANE	282.0
METHYLCYCLOHEXANE	451.0
2,5-DIMETHYLHEXANE	65.7
2,3,4-TRIMETHYLPENTANE	98.1
3,5,5-TRIMETHYLHEXANE	132.0
3-METHYHEPTANE	258.0
2,2,5-TRIMETHYLHEXANE	69.9
N-OCTANE	262.0
N-NONANE	291.0
N-DECANE	216.0
N-UNDECANE	110.0
C6 ALKANE	104.0
C7 ALKANE	39.3
C7 ALKANE	42.9
C7 ALKANE	65.6
C7 ALKANE	161.0
C7 ALKANE	147.0
C8 ALKANE	268.0
C8 ALKANE	71.7
C8 ALKANE	61.4
C8 ALKANE	73.1
C8 ALKANE	20.4
C10+ ALKANE	158.0
C10+ ALKANE	111.0
C10+ ALKANE	34.7
C10+ ALKANE	177.0
C10+ ALKANE	110.0

COMPOUND	CONCENTRATION (PPBV-C)
OLEFINS	
ETHYLENE	19050.0
ACETYLENE	6600.0
PROPYLENE	36850.0
ISOBUTENE + 1-BUTENE	7990.0
T-2-BUTENE	3780.0
C-2-BUTENE	584.0
3-METHYL-1-BUTENE	110.0
1-PENTENE	467.0
2-METHYL-1-BUTENE	103.0
T-2-PENTENE	257.0
C-2-PENTENE	111.0
2-METHYL-2-BUTENE	195.0
2-METHYL-1-PENTENE	480.0
T-2-HEXENE	125.0
1-HEPTENE	266.0
2,4,4-TRIME-1-PENTENE	61.0
1-METHYLCYCLOHEXENE	75.6
1-OCTENE	219.0
1-NONENE	105.0
A-PINENE	83.4
1-DECENE	101.0
LIMONENE	39.5
1-UNDECENE	75.4
C7 ALKENE	91.8
C8 ALKENE	33.8
C8 ALKENE	91.7
C8 ALKENE	109.0
C9 ALKENE	553.0
C9 ALKENE	22.2
C9 ALKENE	100.0
C9 ALKENE	151.0
C10+ ALKENE	68.9
C10+ ALKENE	26.0
C10+ ALKENE	77.9
C10+ ALKENE	31.5
C10+ ALKENE	38.9
TOTAL AROMATICS	
BENZENE	2810.0
TOLLENE	1223.0
ETHYLBENZENE	348.0
P-XYLENE'M-XYLENE	542.0
STYRENE	124.0

ANALYTICAL RESULTS
IC ENGINE EXHAUST GAS
12-21-1983

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL AROMATICS (con't)	
O-XYLENE	331.0
ISOPROPYLBENZENE	38.8
M-ETHYLTOLUENE	203.0
1,3,5-TRIMETHYLBENZENE	372.0
O-ETHYLTOLUENE	210.0
T-BUTYLBENZENE	44.3
1,2,4-TRIMETHYLBENZENE	291.0
1,2,3-TRIMETHYLBENZENE	291.0
INDAN	30.2
INDENE	109.0
M-DIETHYLBENZENE	36.0
N-BUTYLBENZENE	150.4
P-DIETHYLBENZENE	25.1
C9 AROMATIC	109.0
C9 AROMATIC	51.9
C10+ AROMATIC	60.9
C10+ AROMATIC	29.1
C10+ AROMATIC	32.6

COMPOUND	CONCENTRATION (PPBV-C)
TOTAL OXYGENATED HC	
ACETALDEHYDE	649.0
ISOBUTYRALDEHYDE	434.0
BUTYRALDEHYDE	39.3
UNIDENTIFIED VOC	
UNIDENTIFIED VOC	27.2
UNIDENTIFIED VOC	2610.0
UNIDENTIFIED VOC	481.0
UNIDENTIFIED VOC	36.3
SUMMARY	
PARAFFINS	315478.8
OLEFINS	16638.7
TOTAL AROMATICS	7462.3
TOTAL OXYGENATED HC	1122.3
UNIDENTIFIED VOC	3154.5
TOTAL HC	343856.6

CES PROFILE NUMBER 701

LIQUID GASOLINE - UNLEADED REGULAR - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43292	CYCLOPENTENE	0.19
43293	4-METHYL-T-2-PENTENE	0.22
43245	1-HEXENE	0.19
50034	T-2-HEXENE	0.61
50035	C-2-HEXENE	0.74
43270	3-METHYL-T-2-PENTENE	0.17
50054	2,4,4-TRIMETHYL-1-PENTENE	0.14
43265	OCTENE	0.19
43266	C-2-OCTENE	0.17
43267	1-NONENE	0.22
50025	A-PINENE	0.08
50026	B-PINENE	0.19
43269	1-UNDECENE	0.12
43289	C6 OLEFINS	0.19
43290	C8 OLEFINS	0.36
50038	C9 OLEFINS	0.78
50039	C10 ALKENES	0.05
45201	BENZENE	1.93
45202	TOLUENE	10.32
45203	ETHYLBENZENE	2.05
45102	ISOMERS OF XYLENE	9.16
45204	O-XYLENE	3.39
50043	ISOPROPYLBENZENE (CUMENE)	0.19
45209	N-PROPYLBENZENE	0.58
45212	M-ETHYLTOLUENE	2.88
45207	1,3,5-TRIMETHYLBENZENE	1.29
45211	O-ETHYLTOLUENE	1.20
45208	1,2,4-TRIMETHYLBENZENE	3.52
45225	1,2,3-TRIMETHYLBENZENE	0.83
50044	INDAN	0.37
50045	M-DIETHYLBENZENE	0.56
45215	TERT-BUTYLBENZENE	0.71
50050	C10 AROMATICS	0.69
	TOTAL	98.93

CES PROFILE NUMBER 703

LIQUID GASOLINE - UNLEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43214	ISO-BUTANE	0.86
43212	N-BUTANE	3.50
43122	ISOMERS OF PENTANE	5.40
43220	N-PENTANE	1.54
43105	ISOMERS OF HEXANE	2.49
43242	CYCLOPENTANE	0.28
43291	2,2-DIMETHYLBUTANE	1.29
43230	3-METHYL PENTANE	1.51
43231	HEXANE	1.23
43262	METHYLCYCLOPENTANE	1.56
43271	2,4-DIMETHYLPENTANE	1.20
43248	CYCLOHEXANE	0.31
43106	ISOMERS OF HEPTANE	4.34
43295	3-METHYLHEXANE	1.49
43276	2,2,4-TRIMETHYLPENTANE	6.80
43232	HEPTANE	1.66
43261	METHYLCYCLOHEXANE	0.64
43278	2,5-DIMETHYLHEXANE	2.12
43279	2,3,4-TRIMETHYLPENTANE	2.68
50035	C-2-HEXENE	1.26
43298	3-METHYLHEPTANE	1.17
50033	2,2,5-TRIMETHYLHEXANE	0.92
43233	OCTANE	0.75
43235	NONANE	0.42
43241	UNDECANE	0.14
43107	ISOMERS OF OCTANE	0.56
43108	ISOMERS OF NONANE	1.43
43109	ISOMERS OF DECANE	0.98
43120	ISOMERS OF BUTENE	0.08
43216	TRANS-2-BUTENE	0.12
43217	CIS-2-BUTENE	0.14
43223	3-METHYL-1-BUTENE	0.06
43224	1-PENTENE	0.31
43225	2-METHYL-1-BUTENE	0.33
43226	TRANS-2-PENTENE	0.64
43227	CIS-2-PENTENE	0.31
43228	2-METHYL-2-BUTENE	1.23
43292	CYCLOPENTENE	0.19

CES PROFILE NUMBER 703

LIQUID GASOLINE - UNLEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43293	4-METHYL-T-2-PENTENE	0.19
43245	1-HEXENE	0.23
50034	T-2-HEXENE	0.53
50035	C-2-HEXENE	0.67

CES PROFILE NUMBER 704

LIQUID GASOLINE - LEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43204	PROPANE	0.16
43214	ISO-BUTANE	1.14
43212	N-BUTANE	3.08
43122	ISOMERS OF PENTANE	7.92
43220	N-PENTANE	3.53
43105	ISOMERS OF HEXANE	4.45
43242	CYCLOPENTANE	0.55
43291	2,2-DIMETHYLBUTANE	0.97

CES PROFILE NUMBER 705
GASOLINE VAPORS - UNLEADED REGULAR - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.22
43204	PROPANE	2.38
43214	ISO-BUTANE	12.15
43212	N-BUTANE	31.09
43122	ISOMERS OF PENTANE	21.94
43220	N-PENTANE	6.28
43105	ISOMERS OF HEXANE	2.96
43242	CYCLOPENTANE	0.50
43291	2,2-DIMETHYLBUTANE	0.92
43230	3-METHYL PENTANE	1.53
43231	HEXANE	1.13
43262	METHYLCYCLOPENTANE	1.05
43271	2,4-DIMETHYLPENTANE	0.39
43248	CYCLOHEXANE	0.16
43106	ISOMERS OF HEPTANE	1.06
43295	3-METHYLHEXANE	0.36
43276	2,2,4-TRIMETHYLPENTANE	0.42
43232	HEPTANE	0.23
43261	METHYLCYCLOHEXANE	0.09
43278	2,5-DIMETHYLHEXANE	0.09
43279	2,3,4-TRIMETHYLPENTANE	0.07
50032	3,5,5-TRIMETHYLHEXANE	0.06
43298	3-METHYLHEPTANE	0.05
50033	2,2,5-TRIMETHYLHEXANE	0.02
43233	OCTANE	0.03
43107	ISOMERS OF OCTANE	0.03
43108	ISOMERS OF NONANE	0.02
43120	ISOMERS OF BUTENE	1.24
43216	TRANS-2-BUTENE	1.70
43217	CIS-2-BUTENE	1.36
43223	3-METHYL-1-BUTENE	0.40
43224	1-PENTENE	0.96
43225	2-METHYL-1-BUTENE	1.24
43226	TRANS-2-PENTENE	1.66
43227	CIS-2-PENTENE	0.84
43228	2-METHYL-2-BUTENE	2.41
43292	CYCLOPENTENE	0.25
43293	4-METHYL-T-2-PENTENE	0.18
43245	1-HEXENE	0.22
50034	T-2-HEXENE	0.34
50035	C-2-HEXENE	0.36
43270	3-METHYL-T-2-PENTENE	0.08
50054	2,4,4-TRIMETHYL-1-PENTENE	0.02
50037	1-METHYLCYCLOHEXENE	0.04
43289	C6 OLEFINS	0.06

CES PROFILE NUMBER 705

GASOLINE VAPORS - UNLEADED REGULAR - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43294	C7-OLEFINS	0.08
45201	BENZENE	0.56
45202	TOLUENE	0.51
45203	ETHYLBENZENE	0.03
45102	ISOMERS OF XYLENE	0.11
45204	O-XYLENE	0.03
45211	O-ETHYLTOLUENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	0.02
45225	1,2,3-TRIMETHYLBENZENE	0.02
	TOTAL	99.97

CES PROFILE NUMBER 706
GASOLINE VAPORS - LEADED REGULAR - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.24
43204	PROPANE	1.77
43214	ISO-BUTANE	7.94
43212	N-BUTANE	21.63
43122	ISOMERS OF PENTANE	28.84
43220	N-PENTANE	10.03
43105	ISOMERS OF HEXANE	4.17

CES PROFILE NUMBER 706

GASOLINE VAPORS - LEADED REGULAR - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45203	ETHYLBENZENE	0.02
45102	ISOMERS OF XYLENE	0.03
45204	O-XYLENE	0.02
45211	O-ETHYLTOLUENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	0.02
45225	1,2,3-TRIMETHYLBENZENE	0.04
	TOTAL	99.97

CES PROFILE NUMBER 707
GASOLINE VAPORS - UNLEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.10
43204	PROPANE	2.07
43214	ISO-BUTANE	12.59
43212	N-BUTANE	34.19
43122	ISOMERS OF PENTANE	19.04
43220	N-PENTANE	3.92
43105	ISOMERS OF HEXANE	2.49

CES PROFILE NUMBER 707
GASOLINE VAPORS - UNLEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43290	C8 OLEFINS	0.03
45201	BENZENE	0.73
45202	TOLUENE	0.93
45203	ETHYLBENZENE	0.05
45102	ISOMERS OF XYLENE	0.16
45204	O-XYLENE	0.08
45211	O-ETHYLTOLUENE	0.04
45207	1,3,5-TRIMETHYLBENZENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	1.09
45225	1,2,3-TRIMETHYLBENZENE	0.11
	TOTAL	99.98

CES PROFILE NUMBER 708

GASOLINE VAPORS - LEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.09
43204	PROPANE	1.53
43214	ISO-BUTANE	16.36
43212	N-BUTANE	28.27
43122	ISOMERS OF PENTANE	24.87
43220	N-PENTANE	7.98
43105	ISOMERS OF HEXANE	4.48
43242	CYCLOPENTANE	0.59
43291	2,2-DIMETHYLBUTANE	0.90
43230	3-METHYL PENTANE	1.97
43231	HEXANE	1.78
43262	METHYLCYCLOPENTANE	1.26
43271	2,4-DIMETHYLPENTANE	0.32
43248	CYCLOHEXANE	0.28
43106	ISOMERS OF HEPTANE	1.02
43295	3-METHYLHEXANE	0.40
43276	2,2,4-TRIMETHYLPENTANE	0.24
43232	HEPTANE	0.26
43261	METHYLCYCLOHEXANE	0.08
43278	2,5-DIMETHYLHEXANE	0.05
43279	2,3,4-TRIMETHYLPENTANE	0.03
50032	3,5,5-TRIMETHYLHEXANE	0.04
43298	3-METHYLHEPTANE	0.05
50033	2,2,5-TRIMETHYLHEXANE	0.02
43233	OCTANE	0.02
43120	ISOMERS OF BUTENE	1.32
43216	TRANS-2-BUTENE	0.57
43217	CIS-2-BUTENE	0.55
43223	3-METHYL-1-BUTENE	0.14
43224	1-PENTENE	0.27
43226	TRANS-2-PENTENE	0.66

CES PROFILE NUMBER 708

GASOLINE VAPORS - LEADED PREMIUM - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45204	O-XYLENE	0.03
45211	O-ETHYLTOLUENE	0.04
45207	1,3,5-TRIMETHYLBENZENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	0.02
45225	1,2,3-TRIMETHYLBENZENE	0.05
50048	INDENE	0.02
50045	M-DIETHYLBENZENE	0.02
45215	TERT-BUTYLBENZENE	0.02
50050	C10 AROMATICS	0.02
	TOTAL	99.97

CES PROFILE NUMBER 709

LIQUID GASOLINE - COMPOSITE OF PRODUCT TYPES - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43214	ISO-BUTANE	0.77
43212	N-BUTANE	2.91
43122	ISOMERS OF PENTANE	7.80
43220	N-PENTANE	3.42
43105	ISOMERS OF HEXANE	4.27
43242	CYCLOPENTANE	0.62
43291	2,2-DIMETHYLBUTANE	1.00
43230	3-METHYL PENTANE	2.54
43231	HEXANE	2.66
43262	METHYLCYCLOPENTANE	3.11
43271	2,4-DIMETHYLPENTANE	0.99
43248	CYCLOHEXANE	0.84
43106	ISOMERS OF HEPTANE	6.07
43295	3-METHYLHEXANE	2.13

CES PROFILE NUMBER 709

LIQUID GASOLINE - COMPOSITE OF PRODUCT TYPES - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43292	CYCLOPENTENE	0.18
43293	4-METHYL-T-2-PENTENE	0.09
43245	1-HEXENE	0.25
50034	T-2-HEXENE	0.51
50035	C-2-HEXENE	0.71
43270	3-METHYL-T-2-PENTENE	0.15
50054	2,4,4-TRIMETHYL-1-PENTENE	0.13
43265	OCTENE	0.19
43266	C-2-OCTENE	0.12
43267	1-NONENE	0.19
50025	A-PINENE	0.09
50026	B-PINENE	0.22
43269	1-UNDECENE	0.14
43289	C6 OLEFINS	0.08
43290	C8 OLEFINS	0.26
50038	C9 OLEFINS	0.71
50039	C10 ALKENES	0.13
45201	BENZENE	2.18
45202	TOLUENE	9.15
45203	ETHYLBENZENE	1.79
45102	ISOMERS OF XYLENE	7.88
45204	O-XYLENE	2.92
50043	ISOPROPYLBENZENE (CUMENE)	0.19
45209	N-PROPYLBENZENE	0.54
45212	M-ETHYLTOLUENE	2.54
45207	1,3,5-TRIMETHYLBENZENE	1.20
45211	O-ETHYLTOLUENE	1.13
45208	1,2,4-TRIMETHYLBENZENE	3.33
45225	1,2,3-TRIMETHYLBENZENE	0.69
50044	INDAN	0.39
50045	M-DIETHYLBENZENE	0.51
45215	TERT-BUTYLBENZENE	0.68
50050	C10 AROMATICS	0.52
50037	1-METHYLCYCLOHEXENE	0.38
43294	C7-OLEFINS	0.09
50048	INDENE	0.02
50046	NAPHTHALENE	0.06
43813	1,1-DICHLOROETHANE	0.01
50092	1,2-DIBROMOETHANE	0.00
43204	PROPANE	0.04
	TOTAL	100.19

CES PROFILE NUMBER 710
GASOLINE VAPORS - COMPOSITE OF PRODUCT TYPES - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.20
43204	PROPANE	1.96
43214	ISO-BUTANE	11.51
43212	N-BUTANE	26.88
43122	ISOMERS OF PENTANE	25.21
43220	N-PENTANE	8.08
43105	ISOMERS OF HEXANE	3.76
43242	CYCLOPENTANE	0.69
43291	2,2-DIMETHYLBUTANE	0.96
43230	3-METHYL PENTANE	1.84
43231	HEXANE	1.44
43262	METHYLCYCLOPENTANE	1.31
43271	2,4-DIMETHYLPENTANE	0.34
43248	CYCLOHEXANE	0.21
43106	ISOMERS OF HEPTANE	1.01
43295	3-METHYLHEXANE	0.33
43276	2,2,4-TRIMETHYLPENTANE	0.29
43232	HEPTANE	0.21
43261	METHYLCYCLOHEXANE	0.09
43278	2,5-DIMETHYLHEXANE	0.06
43279	2,3,4-TRIMETHYLPENTANE	0.05
50032	3,5,5-TRIMETHYLHEXANE	0.05
43298	3-METHYLHEPTANE	0.04
50033	2,2,5-TRIMETHYLHEXANE	0.01
43233	OCTANE	0.02
43107	ISOMERS OF OCTANE	0.03
43108	ISOMERS OF NONANE	0.01
43120	ISOMERS OF BUTENE	1.30
43216	TRANS-2-BUTENE	1.41
43217	CIS-2-BUTENE	1.14
43223	3-METHYL-1-BUTENE	0.38
43224	1-PENTENE	0.96
43225	2-METHYL-1-BUTENE	1.21
43226	TRANS-2-PENTENE	1.51
43227	CIS-2-PENTENE	0.75
43228	2-METHYL-2-BUTENE	2.07
43292	CYCLOPENTENE	0.24
43293	4-METHYL-T-2-PENTENE	0.20
43245	1-HEXENE	0.21
50034	T-2-HEXENE	0.23
50035	C-2-HEXENE	0.34
43270	3-METHYL-T-2-PENTENE	0.07
50054	2,4,4-TRIMETHYL-1-PENTENE	0.01
50037	1-METHYLCYCLOHEXENE	0.03
43289	C6 OLEFINS	0.05

CES PROFILE NUMBER 710
GASOLINE VAPORS - COMPOSITE OF PRODUCT TYPES - SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43294	C7-OLEFINS	0.04
45201	BENZENE	0.60
45202	TOLUENE	0.43
45203	ETHYLBENZENE	0.03
45102	ISOMERS OF XYLENE	0.08
45204	O-XYLENE	0.03
45211	O-ETHYLTOLUENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	0.02
45225	1,2,3-TRIMETHYLBENZENE	0.03
50038	C9 OLEFINS	0.01
50039	C10 ALKENES	0.00
45207	1,3,5-TRIMETHYLBENZENE	0.00
50048	INDENE	0.00
50045	M-DIETHYLBENZENE	0.00
45215	TERT-BUTYLBENZENE	0.00
50050	C10 AROMATICS	0.00
	TOTAL	99.99

CES PROFILE NUMBER 721

LIQUID GASOLINE - UNLEADED REGULAR - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.04
43204	PROPANE	0.13
43214	ISO-BUTANE	1.88
43212	N-BUTANE	5.82
43122	ISOMERS OF PENTANE	6.46
43220	N-PENTANE	2.68
43105	ISOMERS OF HEXANE	3.19
43242	CYCLOPENTANE	0.50
43291	2,2-DIMETHYLBUTANE	0.83
43230	3-METHYL PENTANE	1.84
43231	HEXANE	1.66
43262	METHYLCYCLOPENTANE	2.20
43271	2,4-DIMETHYLPENTANE	0.96
43248	CYCLOHEXANE	0.50
43106	ISOMERS OF HEPTANE	4.43
43295	3-METHYLHEXANE	1.59
43232	HEPTANE	1.53
43261	METHYLCYCLOHEXANE	0.85
43278	2,5-DIMETHYLHEXANE	0.93
43279	2,3,4-TRIMETHYLPENTANE	0.74
50032	3,5,5-TRIMETHYLHEXANE	1.20
43298	3-METHYLHEPTANE	1.21
50033	2,2,5-TRIMETHYLHEXANE	0.74
43233	OCTANE	0.83
43235	NONANE	0.57
43238	N-DECANE	0.20
43241	UNDECANE	0.22
43107	ISOMERS OF OCTANE	3.10
43108	ISOMERS OF NONANE	1.35
43109	ISOMERS OF DECANE	2.81
43120	ISOMERS OF BUTENE	0.19
43216	TRANS-2-BUTENE	0.17
43217	CIS-2-BUTENE	0.17
43223	3-METHYL-1-BUTENE	0.10
43224	1-PENTENE	0.29
43225	2-METHYL-1-BUTENE	0.35
43226	TRANS-2-PENTENE	0.54
43227	CIS-2-PENTENE	0.31

CES PROFILE NUMBER 721

LIQUID GASOLINE - UNLEADED REGULAR - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43228	2-METHYL-2-BUTENE	0.96
43292	CYCLOPENTENE	0.19
43245	1-HEXENE	0.32
50034	T-2-HEXENE	0.52
50035	C-2-HEXENE	0.15
50054	2,4,4-TRIMETHYL-1-PENTENE	0.07
50037	1-METHYLCYCLOHEXENE	0.44
43265	OCTENE	0.16
43267	1-NONENE	0.04
50025	A-PINENE	0.12
50026	B-PINENE	0.20
43269	1-UNDECENE	0.17
43289	C6 OLEFINS	0.63
43294	C7-OLEFINS	0.26
43290	C8 OLEFINS	0.39
50038	C9 OLEFINS	0.41
45201	BENZENE	1.82
45202	TOLUENE	9.11
45203	ETHYLBENZENE	2.08
45102	ISOMERS OF XYLENE	8.75
45204	O-XYLENE	3.59
50043	ISOPROPYLBENZENE (CUMENE)	0.25
45209	N-PROPYLBENZENE	0.69
45212	M-ETHYLTOLUENE	3.25
45207	1,3,5-TRIMETHYLBENZENE	1.30
45211	O-ETHYLTOLUENE	1.25
45208	1,2,4-TRIMETHYLBENZENE	4.21
45225	1,2,3-TRIMETHYLBENZENE	1.31
50044	INDAN	0.52
50045	M-DIETHYLBENZENE	0.85
45215	TERT-BUTYLBENZENE	0.95
50046	NAPHTHALENE	0.25
50049	C9 AROMATICS	1.60
43820	1,1,2-TRICHLOROETHANE	0.06
	TOTAL	99.98

CES PROFILE NUMBER 722

LIQUID GASOLINE - LEADED REGULAR - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43214	ISO-BUTANE	2.50
43212	N-BUTANE	5.18
43122	ISOMERS OF PENTANE	6.81
43220	N-PENTANE	3.94
43105	ISOMERS OF HEXANE	3.58
43242	CYCLOPENTANE	0.81
43291	2,2-DIMETHYLBUTANE	0.81
43230	3-METHYL PENTANE	2.12
43231	HEXANE	2.63
43262	METHYLCYCLOPENTANE	3.05
43271	2,4-DIMETHYLPENTANE	0.71
43248	CYCLOHEXANE	0.81
43106	ISOMERS OF HEPTANE	4.11
43295	3-METHYLHEXANE	1.53
43232	HEPTANE	1.89
43261	METHYLCYCLOHEXANE	1.24
43278	2,5-DIMETHYLHEXANE	0.72
43279	2,3,4-TRIMETHYLPENTANE	0.59
50032	3,5,5-TRIMETHYLHEXANE	1.34
43298	3-METHYLHEPTANE	1.48
50033	2,2,5-TRIMETHYLHEXANE	0.77
43233	OCTANE	1.19
43235	NONANE	0.84
43238	N-DECANE	0.55
43241	UNDECANE	0.26
43107	ISOMERS OF OCTANE	2.72
43108	ISOMERS OF NONANE	2.29
43109	ISOMERS OF DECANE	3.18
43120	ISOMERS OF BUTENE	0.28
43216	TRANS-2-BUTENE	0.40
43217	CIS-2-BUTENE	0.28
43223	3-METHYL-1-BUTENE	0.14
43224	1-PENTENE	0.46
43225	2-METHYL-1-BUTENE	0.48
43226	TRANS-2-PENTENE	0.76
43227	CIS-2-PENTENE	0.36
43228	2-METHYL-2-BUTENE	1.20
43292	CYCLOPENTENE	0.22

CES PROFILE NUMBER 722

LIQUID GASOLINE - LEADED REGULAR - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43293	4-METHYL-T-2-PENTENE	0.22
43245	1-HEXENE	0.57
50034	T-2-HEXENE	0.71
50035	C-2-HEXENE	0.19
50054	2,4,4-TRIMETHYL-1-PENTENE	0.10
50037	1-METHYLCYCLOHEXENE	0.62
43265	OCTENE	0.26
43266	C-2-OCTENE	0.03
43267	1-NONENE	0.07
50025	A-PINENE	0.14
50026	B-PINENE	0.31
43269	1-UNDECENE	0.19
43294	C7-OLEFINS	0.79
43290	C8 OLEFINS	0.72
50038	C9 OLEFINS	0.46
45201	BENZENE	1.74
45202	TOLUENE	6.35
45203	ETHYLBENZENE	1.63
45102	ISOMERS OF XYLENE	6.83
45204	O-XYLENE	2.56
50043	ISOPROPYLBENZENE (CUMENE)	0.22
45209	N-PROPYLBENZENE	0.62
45212	M-ETHYLTOLUENE	2.81
45207	1,3,5-TRIMETHYLBENZENE	1.17
45211	O-ETHYLTOLUENE	1.22
45208	1,2,4-TRIMETHYLBENZENE	3.42
45225	1,2,3-TRIMETHYLBENZENE	1.27
50044	INDAN	0.52
50048	INDENE	0.07
45215	TERT-BUTYLBENZENE	0.79
50046	NAPHTHALENE	0.29
50049	C9 AROMATICS	0.86
	TOTAL	99.98

CES PROFILE NUMBER 723
LIQUID GASOLINE - UNLEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.11
43204	PROPANE	2.29
43214	ISO-BUTANE	5.44
43122	ISOMERS OF PENTANE	5.23
43220	N-PENTANE	1.39
43105	ISOMERS OF HEXANE	2.34
43242	CYCLOPENTANE	0.25
43291	2,2-DIMETHYLBUTANE	1.15

CES PROFILE NUMBER 724

LIQUID GASOLINE - LEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.05
43214	ISO-BUTANE	2.32
43212	N-BUTANE	7.00
43122	ISOMERS OF PENTANE	8.73
43220	N-PENTANE	2.76
43105	ISOMERS OF HEXANE	4.76
43242	CYCLOPENTANE	0.51
43291	2,2-DIMETHYLBUTANE	0.72
43230	3-METHYL PENTANE	2.87
43231	HEXANE	2.01
43262	METHYLCYCLOPENTANE	4.31
43271	2,4-DIMETHYLPENTANE	0.54
43248	CYCLOHEXANE	1.07
43106	ISOMERS OF HEPTANE	5.90
43295	3-METHYLHEXANE	2.40

CES PROFILE NUMBER 724

LIQUID GASOLINE - LEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
50035	C-2-HEXENE	0.10
50054	2,4,4-TRIMETHYL-1-PENTENE	0.04
50037	1-METHYLCYCLOHEXENE	0.21
50025	A-PINENE	0.12
50026	B-PINENE	0.26
43269	1-UNDECENE	0.29
43289	C6 OLEFINS	0.39
43294	C7-OLEFINS	0.13
43290	C8 OLEFINS	0.05
50038	C9 OLEFINS	0.42
45201	BENZENE	1.58
45202	TOLUENE	6.44
45203	ETHYLBENZENE	1.69
45102	ISOMERS OF XYLENE	6.99
45204	O-XYLENE	2.73
50043	ISOPROPYLBENZENE (CUMENE)	0.26
45209	N-PROPYLBENZENE	0.73
45212	M-ETHYLTOLUENE	3.20
45207	1,3,5-TRIMETHYLBENZENE	1.24
45211	O-ETHYLTOLUENE	1.31
45208	1,2,4-TRIMETHYLBENZENE	3.64
45225	1,2,3-TRIMETHYLBENZENE	1.31
50044	INDAN	0.56
50048	INDENE	0.05
50045	M-DIETHYLBENZENE	0.77
45215	TERT-BUTYLBENZENE	1.07
50046	NAPHTHALENE	0.22
50050	C10 AROMATICS	0.20
	TOTAL	100.01

CES PROFILE NUMBER 725
GASOLINE VAPORS - UNLEADED REGULAR - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43267	1-NONENE	0.02
43289	C6 OLEFINS	0.48
43290	C8 OLEFINS	0.08
50038	C9 OLEFINS	0.15
45201	BENZENE	1.14
45202	TOLUENE	1.44
45203	ETHYLBENZENE	0.19
45102	ISOMERS OF XYLENE	0.61
45204	O-XYLENE	0.31
45212	M-ETHYLTOLUENE	0.04
45208	1,2,4-TRIMETHYLBENZENE	0.04
45225	1,2,3-TRIMETHYLBENZENE	0.02
43820	1,1,2-TRICHLOROETHANE	0.12
	TOTAL	99.98

CES PROFILE NUMBER 726

GASOLINE VAPORS - LEADED REGULAR - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.13
43204	PROPANE	2.28
43214	ISO-BUTANE	16.20
43212	N-BUTANE	23.70
43122	ISOMERS OF PENTANE	13.59
43220	N-PENTANE	6.05
43105	ISOMERS OF HEXANE	3.23
43242	CYCLOPENTANE	0.89
43291	2,2-DIMETHYLBUTANE	0.79
43230	3-METHYL PENTANE	1.82
43231	HEXANE	1.94
43262	METHYLCYCLOPENTANE	2.29
43271	2,4-DIMETHYLPENTANE	0.46
43248	CYCLOHEXANE	0.53
43106	ISOMERS OF HEPTANE	2.51
43295	3-METHYLHEXANE	0.75
43232	HEPTANE	0.75
43261	METHYLCYCLOHEXANE	0.46
43278	2,5-DIMETHYLHEXANE	0.22
50032	3,5,5-TRIMETHYLHEXANE	0.31
43298	3-METHYLHEPTANE	0.34
50033	2,2,5-TRIMETHYLHEXANE	0.08
43233	OCTANE	0.20
43235	NONANE	0.04
43107	ISOMERS OF OCTANE	0.82
43108	ISOMERS OF NONANE	0.25
43109	ISOMERS OF DECANE	0.02
43120	ISOMERS OF BUTENE	2.30
43216	TRANS-2-BUTENE	1.95
43217	CIS-2-BUTENE	1.45
43223	3-METHYL-1-BUTENE	0.33
43224	1-PENTENE	0.94
43225	2-METHYL-1-BUTENE	1.05
43226	TRANS-2-PENTENE	1.28
43227	CIS-2-PENTENE	0.66
43228	2-METHYL-2-BUTENE	1.89
43292	CYCLOPENTENE	0.29
43293	4-METHYL-T-2-PENTENE	0.23
43245	1-HEXENE	0.53
50004	2-METHYL-2-PENTENE	0.19
50034	T-2-HEXENE	0.39
50035	C-2-HEXENE	0.15
50041	3-HEPTENE	0.06
50054	2,4,4-TRIMETHYL-1-PENTENE	0.05
50037	1-METHYLCYCLOHEXENE	0.16

CES PROFILE NUMBER 726

GASOLINE VAPORS - LEADED REGULAR - WINTER BLEND

43265	OCTENE	0.05
43289	C6 OLEFINS	0.68
43294	C7-OLEFINS	0.15
43290	C8 OLEFINS	0.22
50038	C9 OLEFINS	0.15
45201	BENZENE	1.54
45202	TOLUENE	1.68
45203	ETHYLBENZENE	0.11
45102	ISOMERS OF XYLENE	0.41
45204	O-XYLENE	0.13
45209	N-PROPYLBENZENE	0.02
45212	M-ETHYLTOLUENE	0.07
45207	1,3,5-TRIMETHYLBENZENE	0.02
45211	O-ETHYLTOLUENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	0.07
45225	1,2,3-TRIMETHYLBENZENE	0.04
50049	C9 AROMATICS	0.02
45801	MONOCHLOROBENZENE	0.03
50056	ISOVALERALDEHYDE	0.04
	TOTAL	100.00

CES PROFILE NUMBER 727
GASOLINE VAPORS - UNLEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.07
43204	PROPANE	2.25
43214	ISO-BUTANE	20.73
43212	N-BUTANE	32.71
43122	ISOMERS OF PENTANE	12.86
43220	N-PENTANE	2.58
43105	ISOMERS OF HEXANE	2.04
43242	CYCLOPENTANE	0.27
43291	2,2-DIMETHYLBUTANE	1.10
43230	3-METHYL PENTANE	1.11
43231	HEXANE	0.72
43271	2,4-DIMETHYLPENTANE	0.58
43248	CYCLOHEXANE	0.10

CES PROFILE NUMBER 727
GASOLINE VAPORS - UNLEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43289	C6 OLEFINS	0.41
43290	C8 OLEFINS	0.10
45201	BENZENE	1.11
45202	TOLUENE	2.25
45203	ETHYLBENZENE	0.10
45102	ISOMERS OF XYLENE	0.36
45204	O-XYLENE	0.12
45212	M-ETHYLTOLUENE	0.06
45211	O-ETHYLTOLUENE	0.04
45107	ISOMERS OF TRIMETHYLBENZENE	0.06
45225	1,2,3-TRIMETHYLBENZENE	0.04
50046	NAPHTHALENE	0.02
50049	C9 AROMATICS	0.08
50053	1,1-DICHLOROETHYLENE	0.01
43820	1,1,2-TRICHLOROETHANE	0.02
	TOTAL	99.99

CES PROFILE NUMBER 728

GASOLINE VAPORS - LEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.04
43204	PROPANE	0.47
43214	ISO-BUTANE	17.34
43212	N-BUTANE	35.02
43122	ISOMERS OF PENTANE	17.73
43220	N-PENTANE	4.31
43105	ISOMERS OF HEXANE	3.73
43242	CYCLOPENTANE	0.51
43291	2,2-DIMETHYLBUTANE	0.64
43230	3-METHYL PENTANE	2.02
43231	HEXANE	1.19
43262	METHYLCYCLOPENTANE	2.38
43271	2,4-DIMETHYLPENTANE	0.27
43248	CYCLOHEXANE	0.55
43106	ISOMERS OF HEPTANE	3.91
43295	3-METHYLHEXANE	0.76
43232	HEPTANE	0.36
43261	METHYLCYCLOHEXANE	0.37
43278	2,5-DIMETHYLHEXANE	0.10
50032	3,5,5-TRIMETHYLHEXANE	0.14
43298	3-METHYLHEPTANE	0.14
43233	OCTANE	0.07
43107	ISOMERS OF OCTANE	0.66
43108	ISOMERS OF NONANE	0.04
43120	ISOMERS OF BUTENE	0.42
43216	TRANS-2-BUTENE	0.42
43217	CIS-2-BUTENE	0.38
43223	3-METHYL-1-BUTENE	0.08
43224	1-PENTENE	0.24
43225	2-METHYL-1-BUTENE	0.23
43226	TRANS-2-PENTENE	0.61
43227	CIS-2-PENTENE	0.32
43228	2-METHYL-2-BUTENE	0.87
43292	CYCLOPENTENE	0.12
50040	2-METHYL-1-PENTENE	0.16
50004	2-METHYL-2-PENTENE	0.09
50034	T-2-HEXENE	0.16
50035	C-2-HEXENE	0.06
50054	2,4,4-TRIMETHYL-1-PENTENE	0.02
50037	1-METHYLCYCLOHEXENE	0.03
43289	C6 OLEFINS	0.28
43294	C7-OLEFINS	0.04
43290	C8 OLEFINS	0.07
50038	C9 OLEFINS	0.10
45201	BENZENE	0.97

CES PROFILE NUMBER 728
GASOLINE VAPORS - LEADED PREMIUM - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45202	TOLUENE	1.02
45203	ETHYLBENZENE	0.06
45102	ISOMERS OF XYLENE	0.24
45204	O-XYLENE	0.08
45209	N-PROPYLBENZENE	0.02
45212	M-ETHYLTOLUENE	0.04
45207	1,3,5-TRIMETHYLBENZENE	0.02
45211	O-ETHYLTOLUENE	0.02
45208	1,2,4-TRIMETHYLBENZENE	0.04
45225	1,2,3-TRIMETHYLBENZENE	0.04
	TOTAL	100.00

CES PROFILE NUMBER 729

LIQUID GASOLINE - COMPOSITE OF PRODUCT TYPES - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.03
43204	PROPANE	0.05
43214	ISO-BUTANE	2.21
43212	N-BUTANE	5.84
43122	ISOMERS OF PENTANE	7.10
43220	N-PENTANE	3.17
43105	ISOMERS OF HEXANE	3.69
43242	CYCLOPENTANE	0.62
43291	2,2-DIMETHYLBUTANE	0.80
43230	3-METHYL PENTANE	2.18
43231	HEXANE	2.11
43262	METHYLCYCLOPENTANE	2.99
43271	2,4-DIMETHYLPENTANE	0.77
43248	CYCLOHEXANE	0.74
43106	ISOMERS OF HEPTANE	4.64
43295	3-METHYLHEXANE	1.75
43232	HEPTANE	1.63
43261	METHYLCYCLOHEXANE	1.20
43278	2,5-DIMETHYLHEXANE	0.77
43279	2,3,4-TRIMETHYLPENTANE	0.54
50032	3,5,5-TRIMETHYLHEXANE	1.23
43298	3-METHYLHEPTANE	1.29
50033	2,2,5-TRIMETHYLHEXANE	0.60
43233	OCTANE	0.95
43235	NONANE	0.65
43238	N-DECANE	0.37
43241	UNDECANE	0.26
43107	ISOMERS OF OCTANE	2.80
43108	ISOMERS OF NONANE	1.92
43109	ISOMERS OF DECANE	3.01
43120	ISOMERS OF BUTENE	0.18
43216	TRANS-2-BUTENE	0.22
43217	CIS-2-BUTENE	0.17
43223	3-METHYL-1-BUTENE	0.09
43224	1-PENTENE	0.32
43225	2-METHYL-1-BUTENE	0.37
43226	TRANS-2-PENTENE	0.59
43227	CIS-2-PENTENE	0.30

CES PROFILE NUMBER 729
LIQUID GASOLINE - COMPOSITE OF PRODUCT TYPES - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43228	2-METHYL-2-BUTENE	0.96
43292	CYCLOPENTENE	0.18
43245	1-HEXENE	0.34
50034	T-2-HEXENE	0.56
50035	C-2-HEXENE	0.15
50054	2,4,4-TRIMETHYL-1-PENTENE	0.07
50037	[illegible]	[illegible]

CES PROFILE NUMBER 730

GASOLINE VAPORS - COMPOSITE OF PRODUCT TYPES - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43202	ETHANE	0.11
43204	PROPANE	1.76
43214	ISO-BUTANE	16.44
43212	N-BUTANE	29.38
43122	ISOMERS OF PENTANE	15.16
43220	N-PENTANE	5.14
43105	ISOMERS OF HEXANE	3.16
43242	CYCLOPENTANE	0.67
43291	2,2-DIMETHYLBUTANE	0.77
43230	3-METHYL PENTANE	1.76
43231	HEXANE	1.47
43262	METHYLCYCLOPENTANE	2.00
43271	2,4-DIMETHYLPENTANE	0.47
43248	CYCLOHEXANE	0.43
43106	ISOMERS OF HEPTANE	2.75
43295	3-METHYLHEXANE	0.72
43232	HEPTANE	0.58
43261	METHYLCYCLOHEXANE	0.36
43278	2,5-DIMETHYLHEXANE	0.22
43279	2,3,4-TRIMETHYLPENTANE	0.07
50032	3,5,5-TRIMETHYLHEXANE	0.24
43298	3-METHYLHEPTANE	0.26
50033	2,2,5-TRIMETHYLHEXANE	0.08
43233	OCTANE	0.15
43107	ISOMERS OF OCTANE	0.85
43108	ISOMERS OF NONANE	0.22
43109	ISOMERS OF DECANE	0.03
43120	ISOMERS OF BUTENE	1.53
43216	TRANS-2-BUTENE	1.35
43217	CIS-2-BUTENE	1.00
43223	3-METHYL-1-BUTENE	0.24
43224	1-PENTENE	0.68
43225	2-METHYL-1-BUTENE	0.78
43226	TRANS-2-PENTENE	1.03
43227	CIS-2-PENTENE	0.53
43228	2-METHYL-2-BUTENE	1.51
43292	CYCLOPENTENE	0.23

CES PROFILE NUMBER 730

GASOLINE VAPORS - COMPOSITE OF PRODUCT TYPES - WINTER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43267	1-NONENE	0.01
43289	C6 OLEFINS	0.51
43290	C8 OLEFINS	0.13
50038	C9 OLEFINS	0.14
45201	BENZENE	1.25
45202	TOLUENE	1.44
45203	ETHYLBENZENE	0.13
45102	ISOMERS OF XYLENE	0.45
45204	O-XYLENE	0.19

CES PROFILE NUMBER 731
HEATED GASOLINE VAPORS-UNLEADED REGULAR-SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43214	ISO-BUTANE	0.86
43212	N-BUTANE	4.24
43122	ISOMERS OF PENTANE	5.17
43220	N-PENTANE	2.62
43242	CYCLOPENTANE	0.28
43291	2,2-DIMETHYLBUTANE	0.57
43105	ISOMERS OF HEXANE	2.06
43230	3-METHYL PENTANE	1.17
43231	HEXANE	2.01
43262	METHYLCYCLOPENTANE	1.45
43271	2,4-DIMETHYLPENTANE	0.55
43248	CYCLOHEXANE	0.32
43106	ISOMERS OF HEPTANE	2.77

CES PROFILE NUMBER 731
HEATED GASOLINE VAPORS-UNLEADED REGULAR-SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45209	N-PROPYLBENZENE	0.76
45212	M-ETHYLTOLUENE	3.94
45207	1,3,5-TRIMETHYLBENZENE	1.80
45211	O-ETHYLTOLUENE	1.58
45208	1,2,4-TRIMETHYLBENZENE	6.33
45225	1,2,3-TRIMETHYLBENZENE	2.12
50044	INDAN	0.83
50045	M-DIETHYLBENZENE	3.50
45215	TERT-BUTYLBENZENE	0.80
50046	NAPHTHALENE	0.71
50050	C10 AROMATICS	7.41
	TOTAL	99.96

CES PROFILE NUMBER 732
AGITATED GASOLINE VAPORS-UNLEADED REGULAR-SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43214	ISO-BUTANE	1.28
43212	N-BUTANE	5.12
43122	ISOMERS OF PENTANE	10.23
43220	N-PENTANE	3.91
43105	ISOMERS OF HEXANE	3.62
43242	CYCLOPENTANE	0.64
43291	2,2-DIMETHYLBUTANE	1.10
43230	3-METHYL PENTANE	2.19
43231	HEXANE	2.38
43262	METHYLCYCLOPENTANE	2.43
43271	2,4-DIMETHYLPENTANE	1.00
43248	CYCLOHEXANE	0.51
43106	ISOMERS OF HEPTANE	4.76
43295	3-METHYLHEXANE	1.66
43279	2,3,4-TRIMETHYLPENTANE	3.00
43232	HEPTANE	1.89
43261	METHYLCYCLOHEXANE	0.78
43278	2,5-DIMETHYLHEXANE	0.92
50032	3,5,5-TRIMETHYLHEXANE	1.30
43298	3-METHYLHEPTANE	1.20
50033	2,2,5-TRIMETHYLHEXANE	0.36
43233	OCTANE	0.79
43241	UNDECANE	0.69
43107	ISOMERS OF OCTANE	0.24
43108	ISOMERS OF NONANE	0.98
43109	ISOMERS OF DECANE	1.83
43217	CIS-2-BUTENE	0.30
43224	1-PENTENE	0.81
43225	2-METHYL-1-BUTENE	0.77
43226	TRANS-2-PENTENE	1.25
43227	CIS-2-PENTENE	0.57
43228	2-METHYL-2-BUTENE	1.87
43292	CYCLOPENTENE	0.29
43293	4-METHYL-T-2-PENTENE	0.18
43245	1-HEXENE	0.36
50034	T-2-HEXENE	0.82
50035	C-2-HEXENE	0.80
43270	3-METHYL-T-2-PENTENE	0.32
50037	1-METHYLCYCLOHEXENE	0.69
43269	1-UNDECENE	0.34
43290	C8 OLEFINS	0.70
50039	C10 ALKENES	2.93
45201	BENZENE	2.15
45202	TOLUENE	9.11
45203	ETHYLBENZENE	1.35

CES PROFILE NUMBER 732
AGITATED GASOLINE VAPORS-UNLEADED REGULAR-SUMMER BLEND

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45102	ISOMERS OF XYLENE	5.54
45204	O-XYLENE	1.80
45212	M-ETHYLTOLUENE	2.11
45207	1,3,5-TRIMETHYLBENZENE	0.99
45211	O-ETHYLTOLUENE	0.84
45208	1,2,4-TRIMETHYLBENZENE	3.40
45225	1,2,3-TRIMETHYLBENZENE	1.25

APPENDIX E-2

INDUSTRIAL SURFACE COATING PROFILES

CES PROFILE NUMBER 711
INDUSTRIAL SURFACE COATING - COMPOSITE LACQUER

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43232	HEPTANE	10.16
43261	METHYLCYCLOHEXANE	15.24
43277	2,4-DIMETHYLHEXANE	0.76
50057	ETHYLCYCLOPENTANE	1.68
50058	TRIMETHYLCYCLOPENTANE	1.29
50090	METHYLHEPTENE	1.14
45202	TOLUENE	44.56
43108	ISOMERS OF NONANE	2.04
43107	ISOMERS OF OCTANE	2.39
43435	N-BUTYL ACETATE	14.89
43288	ETHYLCYCLOHEXANE	0.79
50060	TRIMETHYLCYCLOHEXANE	0.81
45102	ISOMERS OF XYLENE	1.04
45204	O-XYLENE	3.14
	TOTAL	99.93

CES PROFILE NUMBER 712

INDUSTRIAL SURFACE COATING - COMPOSITE ENAMEL

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43232	HEPTANE	1.56
43248	CYCLOHEXANE	2.27
43551	ACETONE	5.57
43552	METHYL ETHYL KETONE	2.36
43560	METHYL ISOBUTYL KETONE	1.57
43433	ETHYL ACETATE	8.96
45202	TOLUENE	15.90
43435	N-BUTYL ACETATE	9.41
45203	ETHYLBENZENE	2.36
45102	ISOMERS OF XYLENE	11.56
45204	O-XYLENE	11.53
50075	C5 ESTER	5.51
50077	HEPTANONE	3.62
50076	2-METHYL-3-HEXANONE	16.44
45104	ISOMERS OF ETHYLTOLUENE	0.88
45107	ISOMERS OF TRIMETHYLBENZENE	0.50
	TOTAL	100.00

CES PROFILE NUMBER 713

INDUSTRIAL SURFACE COATING - COMPOSITE PRIMER

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43232	HEPTANE	1.94
43261	METHYLCYCLOHEXANE	2.50
45202	TOLUENE	44.30
43108	ISOMERS OF NONANE	3.45
50059	DIMETHYLCYCLOHEXANE	6.26
43277	2,4-DIMETHYLHEXANE	11.09
43435	N-BUTYL ACETATE	8.42
50091	DIMETHYLHEPTANE	1.04
50061	ETHYLCYCLOHEXANE	2.08
50060	TRIMETHYLCYCLOHEXANE	2.43
45102	ISOMERS OF XYLENE	1.45
45204	O-XYLENE	2.23
43271	2,4-DIMETHYLPENTANE	2.66
50074	BUTYL CELLOSOLVE	10.13
	TOTAL	99.98

CES PROFILE NUMBER 716

MEDIUM CURE ASPHALT

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43261	METHYLCYCLOHEXANE	2.11
45202	TOLUENE	6.40
43233	OCTANE	5.60
50064	C2 CYCLOHEXANE	3.45
50068	C3 ALKYL CYCLOHEXANE	6.49
45203	ETHYLBENZENE	2.31
45102	ISOMERS OF XYLENE	8.57
43108	ISOMERS OF NONANE	2.08
45204	O-XYLENE	3.73
43235	NONANE	10.48
50068	C3 ALKYL CYCLOHEXANE	3.33
43109	ISOMERS OF DECANE	4.03
45107	ISOMERS OF TRIMETHYLBENZENE	5.39
45104	ISOMERS OF ETHYLTOLUENE	2.94
43109	ISOMERS OF DECANE	4.03
50069	C4 ALKYL CYCLOHEXANE	5.13
43238	N-DECANE	12.45
45105	ISOMERS OF BUTYLBENZENE	9.34
43241	UNDECANE	2.13
	TOTAL	99.99

APPENDIX E-4

ARCHITECTURAL SURFACE COATING--
WATER-BASED COATING PROFILE

CES PROFILE NUMBER 717
ARCHITECTURAL SURFACE COATING - WATER BASED PAINT

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
50093	1-CHLOROBUTANE	2.21
43305	N-BUTYL ALCOHOL	20.09
45201	BENZENE	0.36
50104	METHYL ISOBUTYRATE	0.12
50096	DIBUTYL ETHER	0.24
43238	N-DECANE	0.21
50094	3-(CHLOROMETHYL)-HEPTANE	0.62
43110	ISOMERS OF UNDECANE	1.00
43241	UNDECANE	0.12
50098	PROPYLCYCLOHEXANONE	1.04
50106	SUBSTITUTED C7 ESTER	26.97
50107	SUBSTITUTED C9 ESTER	28.58
50097	2-BUTYLTETRAHYDROFURAN	0.15
43801	METHYL CHLORIDE	0.55
43812	ETHYL CHLORIDE	0.62
43802	DICHLOROMETHANE	5.52
50095	ETHYL ISOPROPYL ETHER	5.20
50100	1-ETHOXY-2-PROPANOL	1.46
50102	1-HEPTANOL	0.78
50103	2-METHYL-2,4-PENTANEDIOL	1.43
43370	ETHYLENE GLYCOL	0.58
50101	2-ETHYL-1-HEXANOL	1.01
50099	2-(2-BUTOXYETHOXY)-ETHANOL	0.78
50105	C8 ESTER	0.36
	TOTAL	100.00

APPENDIX E-5

ARCHITECTURAL SURFACE COATING--
SOLVENT USAGE PROFILE

CES PROFILE NUMBER 718
ARCHITECTURAL SURFACE COATING - COMPOSITE SOLVENT

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43552	METHYL ETHYL KETONE	4.06
50081	ISOPROPANOL	4.91
43802	DICHLOROMETHANE	1.22
43232	HEPTANE	3.07

APPENDIX E-6

INTERNAL COMBUSTION ENGINE--
RECIPROCATING-NATURAL GAS PROFILE

CES PROFILE NUMBER 719
INTERNAL COMBUSTION ENGINE - RECIPROCATING-NATURAL GAS FIRED

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43201	METHANE	76.64
43202	ETHANE	13.99
43204	PROPANE	2.91
43214	ISO-BUTANE	0.43
43212	N-BUTANE	1.00
43122	ISOMERS OF PENTANE	0.13
43220	N-PENTANE	0.13
43105	ISOMERS OF HEXANE	0.02
43230	3-METHYL PENTANE	0.02
43231	HEXANE	0.02
43262	METHYLCYCLOPENTANE	0.04
43248	CYCLOHEXANE	0.01
43106	ISOMERS OF HEPTANE	0.04
43295	3-METHYLHEXANE	0.01
43276	2,2,4-TRIMETHYLPENTANE	0.00
43232	HEPTANE	0.02
43261	METHYLCYCLOHEXANE	0.02
43298	3-METHYLHEPTANE	0.02
43233	OCTANE	0.02
43235	NONANE	0.01
43238	N-DECANE	0.01
43241	UNDECANE	0.01
43107	ISOMERS OF OCTANE	0.02
43108	ISOMERS OF NONANE	0.01
43109	ISOMERS OF DECANE	0.02
43206	ACETYLENE	0.32
43205	PROPYLENE	1.69
43215	ISOBUTYLENE	0.02
43218	1,3-BUTADIENE	0.00
43216	TRANS-2-BUTENE	0.13
43267	1-NONENE	0.01
50038	C9 OLEFINS	0.04
50039	C10 ALKENES	0.02
45201	BENZENE	0.11
45202	TOLUENE	0.04
45203	ETHYLBENZENE	0.01
45205	M-XYLENE	0.01
45212	M-ETHYLTOLUENE	0.01
45207	1,3,5-TRIMETHYLBENZENE	0.02
45211	O-ETHYLTOLUENE	0.01
45208	1,2,4-TRIMETHYLBENZENE	0.01
50050	C10 AROMATICS	0.01
43510	BUTYRALDEHYDE	0.00
43502	FORMALDEHYDE	0.81
43242	CYCLOPENTANE	0.02

CES PROFILE NUMBER 719
INTERNAL COMBUSTION ENGINE - RECIPROCATING-NATURAL GAS FIRED

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43291	2,2-DIMETHYLBUTANE	0.01
43271	2,4-DIMETHYLPENTANE	0.01
43278	2,5-DIMETHYLHEXANE	0.00
43279	2,3,4-TRIMETHYLPENTANE	0.00
50032	3,5,5-TRIMETHYLHEXANE	0.00
50033	2,2,5-TRIMETHYLHEXANE	0.00
43203	ETHYLENE	0.63
43120	ISOMERS OF BUTENE	0.26
43217	CIS-2-BUTENE	0.02
43223	3-METHYL-1-BUTENE	0.00
43224	1-PENTENE	0.01
43225	2-METHYL-1-BUTENE	0.00

APPENDIX E-7

PROFILES DEVELOPED FROM EXISTING DATA

CES PROFILE NUMBER 751

ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESIN MFG.

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43704	ACRYLONITRILE	60.00
45220	STYRENE	40.00
	TOTAL	100.00

CES PROFILE NUMBER 752

POLYSTYRENE RESIN MFG.

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45203	ETHYLBENZENE	10.00
45220	STYRENE	90.00
	TOTAL	100.00

CES PROFILE NUMBER 753

STYRENE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45220	STYRENE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 754

CHLOROSOLVE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43302	ETHYL ALCOHOL	30.00
43802	DICHLOROMETHANE	70.00
	TOTAL	100.00

CES PROFILE NUMBER 755

TRICHLOROTRIFLOUROETHANE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43821	TRICHLOROTRIFLOUROETHANE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 756

OIL AND GAS PRODUCTION FUGITIVES-LIQUID SERVICE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43201	METHANE	37.60
43202	ETHANE	6.40
43204	PROPANE	10.10
43212	N-BUTANE	7.40
43214	ISO-BUTANE	0.40
43122	ISOMERS OF PENTANE	5.60
43105	ISOMERS OF HEXANE	9.90
43106	ISOMERS OF HEPTANE	11.60
43107	ISOMERS OF OCTANE	8.70
43115	C-7 CYCLOPARAFFINS	1.60
43116	C-8 CYCLOPARAFFINS	0.60
45201	BENZENE	0.10
	TOTAL	100.00

CES PROFILE NUMBER 751

ACRYLONITRILE-BUTADIENE-STYRENE (ABS) RESIN MFG.

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43704	ACRYLONITRILE	60.00
45220	STYRENE	40.00
	TOTAL	100.00

CES PROFILE NUMBER 752

POLYSTYRENE RESIN MFG.

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45203	ETHYLBENZENE	10.00
45220	STYRENE	90.00
	TOTAL	100.00

CES PROFILE NUMBER 753

STYRENE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45220	STYRENE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 754

CHLOROSOLVE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43302	ETHYL ALCOHOL	30.00
43802	DICHLOROMETHANE	70.00
	TOTAL	100.00

CES PROFILE NUMBER 755

TRICHLOROTRIFLOUROETHANE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43821	TRICHLOROTRIFLOUROETHANE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 756

OIL AND GAS PRODUCTION FUGITIVES-LIQUID SERVICE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43201	METHANE	37.60
43202	ETHANE	6.40
43204	PROPANE	10.10
43212	N-BUTANE	7.40
43214	ISO-BUTANE	0.40
43122	ISOMERS OF PENTANE	5.60
43105	ISOMERS OF HEXANE	9.90
43106	ISOMERS OF HEPTANE	11.60
43107	ISOMERS OF OCTANE	8.70
43115	C-7 CYCLOPARAFFINS	1.60
43116	C-8 CYCLOPARAFFINS	0.60
45201	BENZENE	0.10
	TOTAL	100.00

CES PROFILE NUMBER 757

OIL AND GAS PRODUCTION FUGITIVES-GAS SERVICE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43201	METHANE	61.30
43202	ETHANE	7.90
43204	PROPANE	7.00
43212	N-BUTANE	4.30
43214	ISO-BUTANE	0.20
43122	ISOMERS OF PENTANE	2.10
43105	ISOMERS OF HEXANE	5.20
43106	ISOMERS OF HEPTANE	6.10
43107	ISOMERS OF OCTANE	4.60
43115	C-7 CYCLOPARAFFINS	0.90
43116	C-8 CYCLOPARAFFINS	0.30
45201	BENZENE	0.10
	TOTAL	100.00

CES PROFILE NUMBER 758

OIL AND GAS PRODUCTION FUGITIVES-VALVES-UNSPECIFIED SERVICE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43201	METHANE	45.80
43202	ETHANE	6.90
43204	PROPANE	9.00
43212	N-BUTANE	6.30
43214	ISO-BUTANE	0.40
43122	ISOMERS OF PENTANE	4.40
43105	ISOMERS OF HEXANE	8.30
43106	ISOMERS OF HEPTANE	9.70
43107	ISOMERS OF OCTANE	7.20
43115	C-7 CYCLOPARAFFINS	1.40
43116	C-8 CYCLOPARAFFINS	0.50
45201	BENZENE	0.10
	TOTAL	100.00

CES PROFILE NUMBER 761

EVAPORATIVE EMISSIONS-NAPHTHA

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43105	ISOMERS OF HEXANE	6.60
43107	ISOMERS OF OCTANE	5.60
43108	ISOMERS OF NONANE	20.60
43109	ISOMERS OF DECANE	16.60
43115	C-7 CYCLOPARAFFINS	2.40
43116	C-8 CYCLOPARAFFINS	0.60
43117	C-9 CYCLOPARAFFINS	4.80
43122	ISOMERS OF PENTANE	0.40
43204	PROPANE	0.60
43212	N-BUTANE	0.60
43220	N-PENTANE	1.30
43231	HEXANE	6.20
43232	HEPTANE	1.80
43233	OCTANE	6.40
43235	NONANE	8.30
43248	CYCLOHEXANE	1.50
45102	ISOMERS OF XYLENE	7.00
45202	TOLUENE	6.20
45201	BENZENE	2.50
	TOTAL	100.00

CES PROFILE NUMBER 762

BTX (BENZENE/TOLUENE/XYLENE)

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45201	BENZENE	33.30
45202	TOLUENE	33.30
45102	ISOMERS OF XYLENE	33.30
	TOTAL	99.90

CES PROFILE NUMBER 763
PHTHALIC ANHYDRIDE MFG - XYLENE OXIDATION

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
50028	PHTHALIC ANHYDRIDE	60.00
45204	O-XYLENE	10.00
50029	MALEIC ANHYDRIDE	20.00
45402	BENZOIC ACID	10.00
	TOTAL	100.00

CES PROFILE NUMBER 764
FLUOROCARBON - 12/11 MANUFACTURING

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43811	TRICHLOROFLOUROMETHANE	2.90
43823	DICHLORODIFLOUROMETHANE	73.10
43826	CHLOROTRIFLUOROMETHANE	24.00
	TOTAL	100.00

CES PROFILE NUMBER 765
FLUOROCARBON - 23/22 MANUFACTURING

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43826	CHLOROTRIFLUOROMETHANE	82.60
43825	CHLORODIFLUOROMETHANE	17.40
	TOTAL	100.00

CES PROFILE NUMBER 766

FLUOROCARBON - 113/114 MANUFACTURING

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43828	DICHLOROTETRAFLUOROETHANE	58.00
43826	CHLOROTRIFLUOROMETHANE	39.60
43827	CHLOROPENTAFLUOROETHANE	2.40
	TOTAL	100.00

CES PROFILE NUMBER 767

FLUOROCARBON - 11

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43811	TRICHLOROFLOUROMETHANE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 768

FLUOROCARBON - 113

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43821	TRICHLOROTRIFLOUROETHANE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 769

FLUOROCARBON - 114

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43828	DICHLOROTETRAFLUOROETHANE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 770

CHLOROFLUOROCARBONS

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43830	CHLOROFLUOROHYDROCARBONS	100.00
	TOTAL	100.00

CES PROFILE NUMBER 771

CARBON TETRACHLORIDE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43804	CARBON TETRACHLORIDE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 772

ORTHO-XYLENE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45204	0-XYLENE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 773

FLUOROCARBON MFG - VALVES, PUMPS, ETC

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43811	TRICHLOROFLOUROMETHANE	7.59
43823	DICHLORODIFLOUROMETHANE	4.82
43826	CHLOROTRIFLUOROMETHANE	39.66
43825	CHLORODIFLUOROMETHANE	8.02
43821	TRICHLOROTRIFLOUROETHANE	26.90
43828	DICHLOROTETRAFLUOROETHANE	1.10
43830	CHLOROFLUOROHYDROCARBONS	11.80
	TOTAL	99.89

CES PROFILE NUMBER 774

ISOBUTYL ACETATE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43446	ISOBUTYL ACETATE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 775

ISOBUTYL ALCOHOL

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43306	ISO-BUTYL ALCOHOL	100.00
	TOTAL	100.00

CES PROFILE NUMBER 776

ISOBUTYL ISOBUTYRATE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43451	ISOBUTYL ISOBUTYRATE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 777

METHYL AMYL KETONE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43561	METHYL AMYL KETONE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 778

METHYL ISOBUTYL KETONE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43560	METHYL ISOBUTYL KETONE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 779

N-BUTYL ACETATE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43435	N-BUTYL ACETATE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 780

N-PROPYL ACETATE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43434	PROPYL ACETATE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 781

N-PROPYL ALCOHOL

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43303	N-PROPYL ALCOHOL	100.00
	TOTAL	100.00

CES PROFILE NUMBER 782

HEXYLENE GLYCOL

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43371	HEXYLENE GLYCOL	100.00
	TOTAL	100.00

CES PROFILE NUMBER 783
INDUSTRIAL SURFACE COATING - SOLVENT BASED PAINT

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43232	HEPTANE	2.94
43261	METHYLCYCLOHEXANE	3.61
43277	2,4-DIMETHYLHEXANE	7.20
50057	ETHYLCYCLOPENTANE	0.22
50058	TRIMETHYLCYCLOPENTANE	0.17
50090	METHYLHEPTENE	0.15
45202	TOLUENE	37.86
43108	ISOMERS OF NONANE	2.79
43435	N-BUTYL ACETATE	9.50
43288	ETHYLCYCLOHEXANE	0.10
50060	TRIMETHYLCYCLOHEXANE	1.66
45102	ISOMERS OF XYLENE	3.70
45204	O-XYLENE	4.47
43248	CYCLOHEXANE	0.52
43551	ACETONE	1.27
43552	METHYL ETHYL KETONE	0.54
43560	METHYL ISOBUTYL KETONE	0.36
43433	ETHYL ACETATE	2.04
45203	ETHYLBENZENE	0.54
50075	C5 ESTER	1.26
50077	HEPTANONE	0.83
50076	2-METHYL-3-HEXANONE	3.75
45104	ISOMERS OF ETHYLTOLUENE	0.20
45107	ISOMERS OF TRIMETHYLBENZENE	0.11
50059	DIMETHYLCYCLOHEXANE	4.01
50091	DIMETHYLHEPTANE	0.67
50061	ETHYLCYCLOHEXANE	1.33
43271	2,4-DIMETHYLPENTANE	1.70
50074	BUTYL CELLOSOLVE	6.48
	TOTAL	99.98

CES PROFILE NUMBER 784

SYNTHETIC RUBBER MFG - STYRENE-BUTADIENE RUBBER

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
45220	STYRENE	40.00
43218	1,3-BUTADIENE	60.00
	TOTAL	100.00

CES PROFILE NUMBER 785

ETHYLENE OXIDE

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43601	ETHYLENE OXIDE	100.00
	TOTAL	100.00

CES PROFILE NUMBER 786

METHYL ALCOHOL

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
43301	METHYL ALCOHOL	100.00
	TOTAL	100.00

CES PROFILE NUMBER 787

CARBON BLACK MANUFACTURING

SAROAD CODE	CHEMICAL NAME	WEIGHT PERCENT
50030	CARBON SULFIDE	26.70
50031	CARBONYL SULFIDE	8.90
43201	METHANE	22.40
43206	ACETYLENE	40.10
43203	ETHYLENE	1.40
43204	PROPANE	0.20
43214	ISO-BUTANE	0.10
43212	N-BUTANE	0.20
	TOTAL	100.00

Appendix F

SIX EXAMPLES OF RECOMMENDED CHANGES TO THE INVENTORY

The 64 pages initially contained in Appendix F, which represented six examples of recommended changes to the inventory, have been deleted from the report; these data contained confidential information and were transmitted to the ARB.

Appendix G

OLD INVENTORY CATEGORY CODES
ASSIGNED IN THIS STUDY

SIC Code	SCC Code	Old Inventory Category Code
0	AAA74682	150
1311	10200501	120
1311	10200604	120
1311	10300604	120
1311	30199999	410
1311	31000101	410
1311	31000102	410
1311	31000103	410
1311	31000104	410
1311	31000107	410
1311	31000108	410
1311	31000109	410
1311	31000111	410
1311	31000121	410
1311	31000122	410
1311	31000131	410
1311	31000142	410
1311	31000203	410
1311	31000207	410
1311	31000208	410
1311	31000209	410
1311	40100201	320
1311	40200501	340
1311	40200601	340
1311	40200901	340
1311	40200920	340
1311	40400301	410
1311	40400302	410
1311	40400399	410
1311	40600141	410
1442	10200602	140
1442	30400212	560
1442	30499999	560
1442	30500199	560
1442	30500205	560
1442	30599999	560
1442	30699999	560
1442	39000699	140
1442	39999999	560
1442	40299999	340
1442	49099999	380
2011	39000699	140
2026	10200602	140
2026	30299999	520
2032	30299999	520

SIC Code	SCC Code	Old Inventory Category Code
2041	10200602	140
2041	30299999	520
2041	40400121	499
2041	40400122	499
2041	40400123	499
2041	40400124	499
2041	40400125	499
2041	40400126	499
2041	40400127	499
2041	40400128	499
2041	40400129	499
2041	40400130	499
2041	40400131	499
2041	40400132	499
2041	40400155	499
2041	40600199	430
2047	10200602	140
2047	30101899	520
2051	30199999	520
2051	30203299	520
2051	30299999	520
2051	40100299	320
2065	30199999	520
2077	30299999	520
2077	99999999	520
2079	30600104	520
2082	10100602	140
2082	30199999	520
2082	99999999	520
2095	30299999	520
2099	10200501	140
2099	30199999	520
2099	30201301	520
2099	30299999	520
2099	30999999	520
2099	40500301	360
2099	40500401	360
2221	39000699	140
2241	10200602	140
2241	30102699	599
2241	33000199	599
2241	40299999	340
2259	40100299	320
2259	40299999	340
2262	30102699	599

SIC Code	SCC Code	Old Inventory Category Code
2262	30199999	599
2262	40200922	380
2262	40299999	340
2262	49099999	380
2392	30199999	599
2392	30999999	599
2392	40299999	340
2399	10200602	140
2399	30101899	599
2399	33000199	599
2399	40100103	310
2434	40299999	340
2435	50300101	240
2436	39000699	140
2436	40100202	320
2436	40200410	340
2436	40200903	380
2436	40200922	380
2491	10200602	140
2491	40200401	340
2491	40200901	380
2491	49099999	380
2499	40100202	320
2499	40100204	320
2499	40200902	380
2499	40200918	380
2511	10300604	140
2511	30199999	580
2511	30999999	580
2511	40200310	340
2511	40200510	340
2511	40200903	380
2511	40200912	380
2511	40200918	380
2511	40200921	380
2511	40200922	380
2511	49099999	380
2511	50300102	240
2512	40200601	340
2512	40200929	380
2521	40100299	320
2521	49099999	380
2522	40100202	320
2522	40200918	380
2621	40299999	340

SIC Code	SCC Code	Old Inventory Category Code
2621	40500201	360
2621	99999999	580
2631	40500599	380
2641	40200901	380
2711	10200602	160
2711	30199999	599
2711	40100299	320
2711	40299999	340
2711	40500301	360
2711	40500401	360
2711	40500501	360
2752	39000699	160
2752	40200401	340
2752	40200501	340
2752	40200601	340
2752	40200901	380
2752	40200920	380
2752	40200921	380
2752	40500411	360
2753	30102699	599
2753	30199999	599
2753	40100103	399
2753	40100205	320
2753	40100299	320
2753	40200901	380
2753	40299999	340
2753	40500301	360
2753	40500599	380
2813	10100602	140
2813	30199999	510
2816	30199999	510
2816	40100299	320
2819	30101405	510
2819	30101904	510
2819	30112702	510
2819	30112703	510
2819	30112711	510
2819	30112712	510
2819	30112713	510
2819	30112714	510
2819	30112721	510
2819	30699999	510
2819	30799999	510
2819	40100205	320
2819	40200901	380

SIC Code	SCC Code	Old Inventory Category Code
2819	40300172	499
2819	40300173	499
2821	30101402	510
2821	30101403	510
2821	30101499	510
2821	30101511	510
2821	30101807	510
2821	30101817	510
2821	30101818	510
2821	30101819	510
2821	30101847	510
2821	30101861	510
2821	30101862	510
2821	30112505	510
2821	30112702	510
2821	30119701	510
2821	40100202	320
2821	40100204	320
2821	40100299	320
2821	40200110	340
2821	40200510	340
2821	40200710	340
2821	40200902	380
2821	40200910	380
2821	40200912	380
2821	40200914	380
2821	40200918	380
2821	40200927	380
2821	40300117	499
2821	40300118	499
2821	40300119	499
2821	40300125	499
2821	40300131	499
2821	40300170	499
2821	40300176	499
2821	40300474	499
2834	10201201	140
2834	30125901	510
2834	30125902	510
2834	40100299	320
2834	40299999	340
2841	30125025	510
2841	99999999	510
2842	30199999	510
2842	40300129	499

SIC Code	SCC Code	Old Inventory Category Code
2842	40300130	499
2842	40300174	499
2842	40300175	499
2842	40700151	510
2842	40700201	510
2842	40700202	510
2843	30100920	510
2843	30100921	510
2843	30100922	510
2843	40300122	499
2843	40300132	499
2843	40300133	499
2843	40300167	499
2843	40300177	499
2843	40300178	499
2851	10200604	140
2851	30102402	510
2851	30299999	510
2851	40100302	320
2851	40200917	380
2869	20200202	140
2869	30599999	510
2869	40100202	320
2869	40100299	320
2869	40200301	340
2869	40200501	340
2869	40200901	380
2869	40200902	380
2869	40200920	380
2869	50300101	240
2869	99999999	510
2879	40299999	340
2892	30699999	510
2892	40100299	320
2892	40299999	340
2893	40299999	340
2899	10200405	140
2899	10200604	140
2899	30113201	510
2899	30113215	510
2911	10201002	130
2911	30601501	420
2911	31000122	410
2911	40100202	320
2911	40100301	320

ventory
y Code

:C ode	Old Inventory Category Code
30168	420
30225	420
30226	420
30233	420
30234	420
30235	420
30132	420
30206	130
39999	420
39999	420
39999	420
30602	130
30501	130
30205	420
39999	420
30103	130
30104	130
39999	420
39999	420
30236	420
30251	420
30405	140
30604	140
30601	599
30202	320
30401	340
30510	340
30601	340
30610	340
30907	380
30912	380
30920	380
30922	380
30932	380
30928	399
30928	380
30104	140
39999	599
39999	380
39999	560
30199	599
30201	340
30906	380
30908	380
30914	380

SIC Code	SCC Code	Old Inventory Category Code
3079	40200920	380
3079	40200921	380
3079	40200922	380
3079	40200931	380
3079	40500599	380
3111	33000199	599
3131	40200201	340
3131	40200401	340
3131	40200601	340
3131	40200701	340
3131	40200901	380
3217	40100202	320
3221	30199999	560
3221	30599999	560
3231	40200110	340
3241	39000599	140
3255	30599999	560
3255	30600104	140
3255	39000699	140
3255	40100299	320
3255	40299999	340
3255	40500599	380
3255	99999999	560
3261	39000502	140
3269	39000699	140
3275	20200102	140
3275	30199999	560
3275	30299999	599
3275	40100299	320
3275	40299999	340
3296	39000599	140
3312	20200401	140
3312	20200501	140
3312	40200201	340
3312	40200914	380
3312	40200918	380
3317	39000699	140
3321	20200201	140
3321	30400219	570
3321	30400701	570
3321	30400702	570
3321	30400705	570
3321	30499999	570
3321	30999999	570
3324	30400102	570

SIC Code	SCC Code	Old Inventory Category Code
3324	30499999	570
3324	40100299	320
3325	30400702	570
3325	30400799	570
3325	30600104	140
3325	30999999	570
3341	30199999	670
3341	30400208	570
3341	30400219	570
3341	30400407	570
3341	30400828	570
3341	40100299	320
3341	50300101	240
3351	39000699	140
3354	20200699	140
3354	39000599	140
3354	40200912	380
3354	40200917	380
3354	40200921	380
3354	40200922	380
3354	40200924	380
3354	40202601	340
3357	30199999	570
3357	30400899	570
3357	40100299	320
3357	40299999	340
3361	30400102	570
3361	30599999	570
3361	30600104	140
3361	40100103	570
3362	30400103	570
3362	30400217	570
3362	30400407	570
3362	30400701	570
3362	30400702	570
3362	30400705	570
3362	40100299	320
3362	40299999	340
3362	99999999	570
3369	30400407	140
3369	40100299	320
3398	40100299	320
3399	30199999	570
3399	40100202	320
3399	40100299	320

SIC Code	SCC Code	Old Inventory Category Code
3399	40200101	340
3399	40200301	340
3399	40200901	380
3399	40200902	380
3411	40200927	380
3412	40200511	340
3412	40200610	340
3412	40200906	380
3412	40200907	380
3412	40200912	380
3412	40200920	380
3412	40200922	380
3412	40200924	380
3429	40200902	380
3429	40200910	380
3429	40200912	380
3429	40200914	380
3429	40200921	380
3429	40200930	380
3441	30101899	570
3441	30400899	570
3441	40100299	320
3441	40200920	380
3441	40299999	340
3443	10200602	140
3443	30101899	570
3443	30499999	570
3443	30600104	140
3443	40100299	320
3443	40200202	340
3443	40200210	340
3443	40200601	340
3444	10200602	140
3444	30101899	570
3444	30199999	570
3444	30400103	570
3444	30400407	140
3444	30400499	570
3444	30400803	570
3444	30400899	570
3444	30499999	570
3444	30600104	140
3444	40200301	340
3444	40200902	380
3444	40200912	380

SIC Code	SCC Code	Old Inventory Category Code
3444	40200914	380
3444	40200917	380
3444	40200918	380
3444	40200921	380
3444	99999999	570
3462	40100299	320
3471	30400102	570
3471	30499999	570
3471	33000199	570
3471	40200601	340
3471	49099999	399
3479	30101899	570
3479	30199999	570
3479	30400899	570
3479	40100103	380
3479	40100208	320
3479	40100302	320
3479	40200701	340
3479	40200906	380
3479	40200914	380
3479	50300108	240
3493	39000699	140
3494	39000699	140
3499	40200920	380
3499	40200921	380
3531	10200602	140
3531	30101899	599
3531	30199999	599
3531	30400803	599
3531	33000199	599
3531	40100299	320
3531	40299999	340
3531	50300101	340
3533	40200901	380
3564	40200201	340
3564	40200901	380
3565	30599999	599
3565	30999999	599
3565	40299999	340
3585	40100299	320
3585	40299999	340
3599	30199999	599
3599	40299999	340
3634	40200901	380
3651	40200201	340

SIC Code	SCC Code	Old Inventory Category Code
3651	40200922	380
3651	40200929	380
3662	40200207	340
3675	40200914	380
3675	40200918	380
3675	40200922	380
3679	30101899	599
3679	40100103	380
3679	40100210	320
3679	40100307	320
3679	40200301	340
3679	40200601	340
3679	40200701	340
3679	40200902	380
3679	40200906	380
3679	40500599	380
3679	49099999	399
3679	99999999	599
3691	30400407	599
3691	40299999	340
3711	30199999	599
3711	40100205	320
3711	40100299	320
3711	40200201	340
3711	40200906	380
3711	40200912	380
3711	40200914	380
3711	40200920	380
3711	40202601	340
3713	40200601	340
3713	40200801	340
3713	40200901	380
3714	10200799	140
3714	30101899	599
3714	40100104	380
3714	40200410	340
3714	40200510	340
3714	40200901	380
3714	40200902	380
3714	40200903	380
3714	40200917	380
3714	40200921	380
3714	40200922	380
3714	49099999	399
3714	50300108	240

	Old Inventory Category Code
99	340
08	320
09	320
10	340
10	340
10	340
10	340
10	340
10	340
10	340
02	380
04	380
07	380
09	380
14	380
10	340
02	140
99	599
99	320
99	380
02	240
99	599
18	380
01	340
02	340
01	140
99	340
01	380
01	140
99	599
04	599
04	140
04	320
02	380
10	380
12	380
14	380
17	380
22	380
11	360
99	599
02	140
99	320
99	140
99	140

SIC Code	SCC Code	Old Inventory Category Code
3841	40100207	320
3841	40200901	380
3841	40200912	380
3841	40200921	380
3841	40200933	380
3931	40200411	340
3931	40200510	340
3931	40200906	380
3993	40299999	340
3993	40500599	380
3995	40200901	380
4463	10200602	160
4463	30499999	699
4463	40100299	320
4463	40299999	340
4582	20100101	160
4582	20200201	160
4582	40400233	499
4582	40400235	499
4582	40400251	499
4613	10200602	160
4613	30199999	599
4613	30699999	599
4613	40200501	340
4613	40200601	340
4613	40200920	380
4613	40300121	430
4613	40300124	430
4613	40300166	430
4613	40300169	430
4613	40301010	430
4613	40400251	430
4613	40400285	430
4613	40600141	430
4613	99999999	599
4911	20200202	150
4911	40200601	340
4911	40200920	380
4911	40300121	499
4911	40300124	499
4911	40300166	499
4911	40300169	499
4911	40301010	499
4922	10200602	160
4922	40100299	320

SIC Code	SCC Code	Old Inventory Category Code
4922	40299999	340
4953	10201201	160
4953	20200102	160
4953	30299999	699
4953	50200505	240
5012	40100204	320
5012	40100205	320
5023	40200901	380
5051	39000699	380
5093	30400103	160
5093	30400208	160
5093	30400801	160
5093	30400828	160
5093	30400899	160
5093	40100103	570
5093	40299999	340
5093	50300101	240
5093	50300102	240
5093	50300108	240
5113	40200914	380
5171	10300502	160
5171	31000107	410
5171	40200510	340
5171	40200610	340
5171	40299999	340
5171	40300121	430
5171	40300123	430
5171	40300125	430
5171	40300126	430
5171	40300166	430
5171	40300168	430
5171	40300170	430
5171	40300171	430
5171	40300220	430
5171	40300223	430
5171	40300250	430
5171	40300252	430
5171	40300265	430
5171	40300268	430
5171	40399901	430
5171	40400121	430
5171	40400151	430
5171	40400162	430
5171	40400233	430
5171	40400235	430

SIC Code	SCC Code	Old Inventory Category Code
5171	40600111	430
5171	40600206	430
5171	40600207	430
5171	40600298	430
5172	30699999	430
5198	40200901	380
5199	10200501	160
5199	10200602	160
5199	30199999	699
5199	40100103	699
5199	40100299	320
5199	40200601	340
5199	40200901	380
5199	40200902	380
5199	99999999	699
5211	10200602	160
5211	40299999	340
5211	49099999	399
5311	10100602	160
5311	10200602	160
5311	40100103	310
5311	40100104	310
5311	40299999	340
5511	40200929	380
5511	40299999	340
5541	10200602	160
5541	30199999	699
5541	30400103	699
5541	30499999	699
5541	40100103	399
5541	40299999	340
5541	40600198	430
5712	40200901	399
5812	10200602	160
6512	10100602	199
6512	10200501	199
6512	10200602	199
6512	20100101	199
6512	40100299	320
6512	50300101	240
6512	99999999	699
6513	10200602	170
6513	40100103	310
6513	50300101	240
7211	10200602	160

SIC Code	SCC Code	Old Inventory Category Code
7211	33000199	699
7211	40100103	310
7211	40100104	310
7213	10200602	160
7216	30199999	699
7216	40100299	320
7218	10200501	160
7218	10200602	160
7395	10200602	160
7395	40100299	320
7395	49099999	399
7399	10200603	160
7399	39000699	160
7534	10200602	160
7534	30199999	699
7534	40100299	320
7538	30600104	160
7538	40299999	340
7538	40600198	430
7629	30199999	699
7629	40299999	340
7629	49099999	399
7629	50300108	240
7699	40299999	340
7814	10200501	160
7814	40100103	310
7814	40100299	320
7819	40100299	320
7819	40201001	340
7996	10100602	160
7996	10200602	160
8062	20200102	160
8062	40100103	310
8062	40299999	340
8221	10100602	160
8221	20400101	160
8221	40100299	320
8221	40299999	340
8221	99999999	699
9711	10500110	199
9999	10100602	199
9999	10200501	199
9999	20200101	199
9999	20200102	199
9999	20400101	199

SIC Code	SCC Code	Old Inventory Category Code
9999	30199999	699
9999	30201301	599
9999	30400103	599
9999	30400702	599
9999	30400803	599
9999	30499999	599
9999	30599999	599
9999	30600104	599
9999	30699999	599
9999	33000199	599
9999	40100103	310
9999	40100202	320
9999	40100203	320
9999	40100205	320
9999	40100299	320
9999	40100302	320
9999	40200111	340
9999	40200601	340
9999	40200901	380
9999	40200902	380
9999	40200912	380
9999	40200917	380
9999	40200918	380
9999	40200929	380
9999	40299999	340
9999	40301010	499
9999	40500401	360
9999	40500599	380
9999	40600198	430
9999	49099999	399
9999	50300102	240

Appendix H

LISTING OF REVISED POINT SOURCES

LISTING OF REVISED POINT SOURCES

As described in the main report, data were modified for 241 individual facilities as a result of the survey, investigations into stationary internal combustion engines, oil and gas production fields, and power plant operating schedules, as well as other examinations. Differences between the data in the original MED point source file and the same type of data in the revised file are presented in this appendix. Changes to the TOG speciation for a facility do not appear here because such changes do not revise the point source file; instead, speciation changes modify other MED files and result in revised ROG emission rates.

If a change occurred to the hourly TOG or NO_x emissions for an SCC, or if an SCC was added or deleted, then all the SCCs for that facility in both the original and revised MED point source files are listed. Daily emissions using the beginning and ending hours from the file are shown in kilograms for each SCC at the facility and are also totaled. Emissions of TOG and NO_x are given for the original file ("before") and the revised file ("after").

Facility ID: 6 Name: Champlin Refinery
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200602	14.40	9.60	446.40	302.40
20200102	0.00	0.00	2.40	2.40
20200301	2.40	2.40	0.00	0.00
30600104	4.80	4.80	235.20	158.40
30600501	0.00	0.00	0.00	0.00
30600502	16.80	16.80	0.00	0.00
30600601	72.00	72.00	0.00	0.00
30600999	36.00	36.00	28.80	28.80
30699998	64.80	0.00	408.00	408.00
30600801	--	48.00	--	0.00
30600804	--	12.00	--	0.00
30600806	--	26.40	--	0.00
30600701	--	2.40	--	0.00
39000899	122.40	122.40	0.00	0.00
40200601	2.40	2.40	0.00	0.00
40300120	--	0.00	--	0.00
40300165	--	0.96	--	0.00
40300121	--	0.00	--	0.00
40300166	--	0.48	--	0.00
40300222	--	16.80	--	0.00
40300267	--	0.48	--	0.00
40300205	--	0.00	--	0.00
40300250	--	0.24	--	0.00
40300207	--	0.48	--	0.00
40300252	--	0.96	--	0.00
40300223	--	0.00	--	0.00
40300268	--	0.96	--	0.00
40300203	--	2.16	--	0.00
40300204	--	7.20	--	0.00
40600134	--	1.60	--	0.00
30600401	12.00	--	0.00	--
40300104	24.00	--	0.00	--
40300206	9.60	--	0.00	--
Total	381.60	387.52	1120.80	900.00

Facility ID: 10 Name: Gulf Oil Refinery
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200501	0.00	0.00	9.20	9.20
10200701	39.60	39.60	447.80	447.80
10201002	--	2.40	--	105.60
20200202	--	304.80	--	741.60
30600103	2.40	2.40	33.40	33.40
30600104	112.20	112.20	1263.10	1263.10
30600201	0.00	0.00	280.80	0.00
30600401	--	16.80	--	14.40
30600501	0.00	0.00	0.00	0.00
30600503	--	50.40	--	0.00
30600602	--	2.40	--	0.00
30600701	--	12.00	--	0.00
30600801	4.80	271.20	0.00	0.00
30600802	19.20	571.20	0.00	0.00
30600804	--	19.20	--	0.00
30600806	--	52.80	--	0.00
30601501	--	0.00	--	0.00
40100301	--	20.80	--	0.00
40100303	--	1.60	--	0.00
40100304	--	1.60	--	0.00
40200510	--	2.40	--	0.00
40200610	--	1.60	--	0.00
40200901	--	2.40	--	0.00
40200902	--	5.60	--	0.00
40300101	--	9.60	--	0.00
40300103	96.00	88.80	0.00	0.00
40300105	--	16.80	--	0.00
40300150	57.60	134.40	0.00	0.00
40300107	--	2.40	--	0.00
40300152	60.00	4.80	0.00	0.00
40300121	--	0.96	--	0.00
40300166	--	0.24	--	0.00
40300201	31.20	67.20	0.00	0.00
40300202	619.20	19.20	0.00	0.00
40300203	76.80	14.40	0.00	0.00
40300204	676.80	21.60	0.00	0.00
40600126	60.00	60.00	0.00	0.00
40600131	--	326.40	--	0.00
40600151	64.80	64.80	0.00	0.00
40600197	19.20	19.20	0.00	0.00
30600601	79.20	--	0.00	--
30600803	52.80	--	0.00	--

30601301	871.20	--	0.00	--
30699999	7.20	--	0.00	--
39000599	0.00	--	4.80	--
40300198	28.80	--	0.00	--
40300199	316.80	--	0.00	--
40300207	307.20	--	0.00	--
40300303	100.80	--	0.00	--
40399999	7.20	--	0.00	--
Total	3711.00	2344.20	2039.10	2615.10

==========

Facility ID: 23 Name: Texaco Inc. Refinery
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200502	0.00	0.00	4.80	4.80
10200601	72.00	72.00	854.40	854.40
10200602	21.60	21.60	271.20	271.20
10200702	7.20	7.20	88.80	88.80
10300602	16.80	16.80	199.20	199.20
20200202	799.20	799.20	552.00	2085.60
30600103	7.20	7.20	52.80	52.80
30600104	201.60	201.60	2340.00	2340.00
30600201	0.00	0.00	561.60	561.60
30600401	--	24.00	--	24.00
30600503	--	170.40	--	0.00
30600701	--	57.60	--	0.00
30600801	602.40	744.00	0.00	0.00
30600802	108.00	172.80	0.00	0.00
30600804	--	26.40	--	0.00
30600806	--	192.00	--	0.00
39000599	2.40	2.40	12.00	12.00
39000799	26.40	26.40	307.20	307.20
40200101	38.40	38.40	0.00	0.00
40300101	9.60	9.60	0.00	0.00
40300102	2.40	9.60	0.00	0.00
40300103	67.20	43.20	0.00	0.00
40300104	110.40	62.40	0.00	0.00
40300105	--	0.24	--	0.00
40300107	--	14.40	--	0.00
40300120	--	0.24	--	0.00
40300121	--	4.80	--	0.00
40300122	--	2.40	--	0.00
40300124	--	55.20	--	0.00
40300130	--	2.40	--	0.00
40300150	4.80	0.00	0.00	0.00
40300152	--	4.80	--	0.00
40300165	--	0.00	--	0.00
40300166	--	2.40	--	0.00

40300167	--	4.80	--	0.00
40300169	--	55.20	--	0.00
40300175	--	2.40	--	0.00
40300201	36.00	472.80	0.00	0.00
40300202	1020.00	2.40	0.00	0.00
40300207	--	2.40	--	0.00
40300252	--	0.00	--	0.00
40600131	--	49.60	--	0.00
30600502	76.80	--	0.00	--
30600803	360.00	--	0.00	--
30600805	21.60	--	0.00	--
30601301	24.00	--	0.00	--
30688801	31.20	--	0.00	--
30699998	405.60	--	55.20	--
30699999	93.60	--	0.00	--
40300199	60.00	--	0.00	--
40300203	21.60	--	0.00	--
40300299	28.80	--	0.00	--
40600197	4.80	--	0.00	--
40600198	7.20	--	0.00	--
40600199	252.00	--	0.00	--
Total	4540.79	3381.27	5299.20	6801.60

==========

Facility ID: 27 Name: Western Fuel Oil
County: 19 SIC Code: 5171

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20100101	0.00	0.00	12.00	12.00
40300102	--	28.80	--	0.00
40300104	--	98.40	--	0.00
40300107	--	4.80	--	0.00
40300121	--	0.24	--	0.00
40300125	--	38.40	--	0.00
40300126	--	0.24	--	0.00
40300152	14.40	0.24	0.00	0.00
40300166	--	0.24	--	0.00
40300170	--	4.80	--	0.00
40300171	--	0.00	--	0.00
40400151	--	7.20	--	0.00
40400162	--	4.80	--	0.00
40600111	--	7.20	--	0.00
40600199	--	2.40	--	0.00
40600202	--	67.20	--	0.00
40600206	--	4.80	--	0.00

40600207	--	4.80	--	0.00
40300103	19.20	--	0.00	--
40300198	36.00	--	0.00	--
40300199	19.20	--	0.00	--
40400199	45.60	--	0.00	--
40600198	146.40	--	0.00	--
40600401	115.00	--	0.00	--
Total	395.80	274.56	12.00	12.00

==========

Facility ID: 30 Name: _____
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200601	0.00	0.00	21.60	21.60
20100201	19.20	19.20	129.60	129.60
20100501	0.00	0.00	80.80	80.80
40301019	55.20	55.20	0.00	0.00
40301021	16.80	16.80	0.00	0.00
10100401	67.20	67.20	1406.40	1406.30
10100405	40.80	41.40	838.00	837.89
10100601	9.60	9.60	206.40	206.20
10100602	4.80	4.30	173.00	172.60
Total	213.60	213.70	2855.80	2854.99

==========

Facility ID: 50 Name: U.S. Steel Corp.
County: 19 SIC Code: 3312

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200502	0.00	0.00	9.60	9.60
20200202	43.20	43.20	28.80	108.00
39000505	14.40	14.40	379.20	379.20
39000599	0.00	0.00	24.00	24.00
39000699	10.20	10.20	271.80	271.80
40200599	3.20	3.20	0.00	0.00
Total	71.00	71.00	713.40	792.60

==========

Facility ID: 71 Name: Chevron Chemical
County: 19 SIC Code: 2843

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200502	2.40	2.40	76.80	76.80
10200602	0.00	0.00	55.20	55.20
30600502	16.80	16.80	0.00	0.00
39000699	0.00	0.00	14.40	14.40
30100920	--	124.80	--	0.00
30100921	--	129.60	--	0.00
30100922	--	7.20	--	0.00
40300132	--	2.40	--	0.00
40300177	--	2.40	--	0.00
40300133	--	69.60	--	0.00
40300178	--	69.60	--	0.00
40300122	--	0.48	--	0.00
40300167	--	0.48	--	0.00
30199999	2220.00	--	0.00	--
40300198	132.00	--	0.00	--
40300199	19.20	--	0.00	--
Total	2390.40	425.76	146.40	146.40

==========

Facility ID: 73 Name: Dow Chemical USA
County: 19 SIC Code: 2821

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200503	0.00	0.00	1.60	1.60
10200603	0.00	0.00	0.80	0.80
30101817	--	7.20	--	0.00
30101818	--	4.80	--	0.00
30101819	--	328.80	--	0.00
30101847	--	9.60	--	0.00
30600103	0.00	0.00	7.20	7.20
30600104	0.00	0.00	16.80	16.80
39000699	0.00	0.00	4.80	4.80
40100202	--	0.72	--	0.00
40100204	--	0.72	--	0.00
40300117	--	7.20	--	0.00
40300118	--	14.40	--	0.00
40300119	--	16.80	--	0.00
30101802	3.20	--	0.00	--
30101899	26.40	--	0.00	--
30199999	13.60	--	0.00	--
40300199	316.80	--	0.00	--
40300399	32.80	--	0.00	--
40399999	7.20	--	0.00	--
Total	400.00	390.24	31.20	31.20

Facility ID: 74 Name: Firestone Tire
County: 19 SIC Code: 3011

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200501	2.40	2.40	76.80	76.80
10200502	0.00	0.00	9.60	9.60
10200601	7.20	7.20	192.00	192.00
40100202	--	22.40	--	0.00
40100203	--	108.80	--	0.00
40200510	--	11.20	--	0.00
40200610	--	0.32	--	0.00
40200901	--	28.80	--	0.00
40200912	--	1.60	--	0.00
40200920	--	809.60	--	0.00
40200932	--	25.60	--	0.00
40100205	132.00	--	0.00	--
40200101	14.40	--	0.00	--
40200701	28.00	--	0.00	--
40200703	225.60	--	0.00	--
40200799	270.40	--	0.00	--
40200918	319.20	--	0.00	--
40200921	9.60	--	0.00	--
40300199	7.20	--	0.00	--
Total	1016.00	1017.92	278.40	278.40

Facility ID: 77 Name: Goodyear Tire
County: 19 SIC Code: 3011

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200502	2.40	2.40	98.40	98.40
10200602	2.40	2.40	79.20	79.20
30102699	52.80	0.00	0.00	0.00
40200901	31.20	81.60	0.00	0.00
40200199	2.40	--	0.00	--
Total	91.20	86.40	177.60	177.60

Facility ID: 120 Name: Douglas Aircraft
County: 19 SIC Code: 3721

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200501	0.00	0.00	5.40	5.40
10200602	1.20	1.20	36.00	36.00
10200603	1.80	1.80	62.40	62.40
40100202	938.40	1165.60	0.00	0.00
40100205	7.20	5.60	0.00	0.00
40100207	--	11.20	--	0.00
40100208	--	411.20	--	0.00
40100209	--	676.00	--	0.00
40200110	--	417.60	--	0.00
40200210	--	10.40	--	0.00
40200410	--	70.40	--	0.00
40200510	--	19.20	--	0.00
40200610	--	146.40	--	0.00
40200901	221.60	262.40	0.00	0.00
40200902	--	39.20	--	0.00
40200904	--	0.80	--	0.00
40200907	--	12.00	--	0.00
40200909	--	3.20	--	0.00
40200912	460.80	11.20	0.00	0.00
40200920	107.20	109.60	0.00	0.00
40200922	76.00	12.80	0.00	0.00
40299999	--	0.80	--	0.00
40100299	616.80	--	0.00	--
40200101	4.00	--	0.00	--
40200501	540.00	--	0.00	--
Total	2975.00	3388.60	103.80	103.80

Facility ID: 132 Name: Lockheed Co.
County: 19 SIC Code: 3721

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200501	1.60	1.60	30.40	30.40
10200602	2.40	2.40	45.60	45.60
40100201	--	4.80	--	0.00
40100202	74.00	74.00	0.00	0.00
40100203	1573.00	1573.00	0.00	0.00
40100204	32.00	32.00	0.00	0.00
40100399	51.00	45.60	0.00	0.00
40200110	--	50.40	--	0.00
40200310	--	0.36	--	0.00

40200410	--	40.80	--	0.00
40200510	--	1.20	--	0.00
40200610	--	51.60	--	0.00
40200710	--	3.60	--	0.00
40200901	13.60	56.40	0.00	0.00
40200912	--	1.20	--	0.00
40200914	--	1.20	--	0.00
40200918	80.00	178.80	0.00	0.00
40200919	7.20	4.80	0.00	0.00
40100299	3.20	--	0.00	--
40200101	27.20	--	0.00	--
40200199	35.20	--	0.00	--
40200401	21.60	--	0.00	--
40200499	3.60	--	0.00	--
40200601	79.20	--	0.00	--
40200801	34.80	--	0.00	--
40600126	14.40	--	0.00	--
40600128	9.60	--	0.00	--
Total	2063.60	2123.76	76.00	76.00

==========

Facility ID: 435 Name: Allied Chemical
County: 19 SIC Code: 2819

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200603	0.00	0.00	14.40	14.40
30101299	3.20	0.00	0.00	0.00
30101904	--	129.60	--	14.40
30112702	--	4.80	--	0.00
30112703	--	31.20	--	0.00
30112711	--	7.20	--	0.00
30112712	--	4.80	--	0.00
30112713	--	19.20	--	0.00
30112714	--	0.72	--	0.00
30112721	--	187.20	--	0.00
40200501	20.80	12.00	0.00	0.00
40200901	--	7.20	--	0.00
40300172	--	7.20	--	0.00
40300173	--	1.20	--	0.00
30101903	122.40	--	14.40	--
30109101	7.20	--	0.00	--
30199999	93.60	--	0.00	--
40300198	14.40	--	0.00	--
Total	261.60	412.32	28.80	28.80

Facility ID: 974 Name: _____
County: 19 SIC Code: 4961

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200502	0.00	0.00	16.00	16.00
10200602	0.00	0.00	32.80	32.80
20200102	0.00	0.00	24.00	24.00
20200202	72.00	72.00	52.80	201.60
Total	72.00	72.00	125.60	274.40

Facility ID: 975 Name: _____
County: 19 SIC Code: 4961

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10300602	0.00	0.00	31.20	31.20
20200102	14.40	14.40	144.00	144.00
20200202	196.80	196.80	132.00	499.20
Total	211.20	211.20	307.20	674.40

Facility ID: 1337 Name: [redacted]

40200918	--	2.00	--	0.00
40200801	27.20	--	0.00	--
Total	141.60	145.00	10.40	10.00

==========

Facility ID: 1449 Name: Emery Industries
County: 19 SIC Code: 2899

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200405	--	2.40	--	84.00
10200604	--	7.20	--	189.60
30113201	--	0.72	--	0.00
30113215	--	441.60	--	0.00
10200602	4.00	--	184.80	--
10200603	0.00	--	26.40	--
30109101	273.60	--	0.00	--
30199999	247.20	--	0.00	--
Total	524.80	451.92	211.20	273.60

==========

Facility ID: 1530 Name: Central Plants
County: 19 SIC Code: 3585

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200602	0.00	0.00	2.40	2.40
20200202	86.40	86.40	62.40	236.00
Total	86.40	86.40	64.80	238.40

==========

Facility ID: 1593 Name: Fuller Co.
County: 19 SIC Code: 3564

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200201	--	6.40	--	0.00
40200901	--	44.80	--	0.00
40200601	8.00	8.00	0.00	0.00
40200501	46.40	--	0.00	--
Total	54.40	59.20	0.00	0.00

==========

Facility ID: 1640 Name: General Motors
County: 19 SIC Code: 3711

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200402	0.80	0.80	22.40	22.40
10200602	5.60	5.60	157.60	157.60
39000699	0.00	0.00	47.70	47.70
40100299	--	99.20	--	0.00
40100399	--	8.00	--	0.00
40200101	--	0.64	--	0.00
40200401	41.60	17.60	0.00	0.00
40200501	--	1072.00	--	0.00
40200601	--	412.80	--	0.00
40200701	--	398.40	--	0.00
40200901	--	1182.40	--	0.00
40200902	400.80	168.00	0.00	0.00
40200906	--	0.64	--	0.00
40200912	--	41.60	--	0.00
40200914	--	19.20	--	0.00
40200920	--	8.00	--	0.00
40200921	--	49.60	--	0.00
40202601	--	72.00	--	0.00
40299999	93.60	120.00	0.00	0.00
40200199	534.30	--	0.00	--
40200499	1181.60	--	0.00	--
40200599	132.40	--	0.00	--
40200799	1199.20	--	0.00	--
Total	3589.90	3676.48	227.70	227.70

==========

Facility ID: 1738 Name: Gulf Oil - Terminal Island
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200602	0.00	0.00	9.60	9.60
40400137	--	1.20	--	0.00
40400138	--	0.72	--	0.00
40600131	--	0.24	--	0.00
40400151	--	0.96	--	0.00
30688801	142.40	--	0.00	--
Total	142.40	3.12	9.60	9.60

==========

Facility ID: 1873 Name: H.W. Hull & Sons
County: 19 SIC Code: 2512

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200401	228.80	120.00	0.00	0.00
39000699	--	0.00	--	0.80
40200601	--	96.00	--	0.00
40200929	--	13.60	--	0.00
Total	228.80	229.60	0.00	0.80

==========

Facility ID: 1900 Name: Imperial Metal
County: 19 SIC Code: 3471

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100203	28.00	29.60	0.00	0.00
40100299	24.00	22.40	0.00	0.00
40200501	107.20	107.20	0.00	0.00
40200510	115.20	115.20	0.00	0.00
40200610	6.40	23.20	0.00	0.00
40200901	31.20	31.20	0.00	0.00
40200920	22.40	22.40	0.00	0.00
40201001	0.80	0.80	38.40	38.40
40200810	132.80	--	0.00	--
Total	468.00	352.00	38.40	38.40

==========

Facility ID: 2166 Name: ACT Container Co.
County: 19 SIC Code: 3412

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200510	--	169.60	--	0.00
40200610	--	15.20	--	0.00
40200906	--	1.60	--	0.00
40200907	--	4.00	--	0.00
40200912	--	4.00	--	0.00
40200918	7.20	8.80	0.00	0.00
40200920	--	0.32	--	0.00

40200922	--	4.80	--	0.00
40200924	--	0.80	--	0.00
40200401	11.20	--	0.00	--
40200501	127.20	--	0.00	--
40200801	45.60	--	0.00	--
40200901	17.60	--	0.00	--
Total	208.80	209.12	0.00	0.00

==========

Facility ID: 2240 Name: MacMillan Ring Free Oil Co.
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200502	4.80	4.80	48.00	48.00
10200503	4.80	4.80	48.00	48.00
10200602	0.00	0.00	33.60	33.60
10200603	0.00	0.00	33.60	33.60
30600103	4.80	4.80	48.00	48.00
30600104	0.00	0.00	33.60	33.60
30600502	36.00	36.00	0.00	0.00
30600805	110.40	110.40	0.00	0.00
30699999	74.00	74.00	0.00	0.00
40300102	120.00	21.60	0.00	0.00
40300104	64.80	139.20	0.00	0.00
40300107	--	2.40	--	0.00
40300121	--	2.40	--	0.00
40300122	--	2.40	--	0.00
40300152	--	2.40	--	0.00
40300166	--	2.40	--	0.00
40300167	--	21.60	--	0.00
40600299	16.80	16.80	0.00	0.00
40300101	52.80	--	0.00	--
40300105	45.60	--	0.00	--
40300150	12.00	--	0.00	--
40300198	2.40	--	0.00	--
Total	549.20	446.00	244.80	244.80

==========

Facility ID: 2735 Name: GATX Terminals
County: 19 SIC Code: 5171

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
39001099	0.00	0.00	4.80	4.80

40300201	957.60	16.80	0.00	0.00
40300202	2.40	0.72	0.00	0.00
40600101	429.60	429.60	0.00	0.00
40200510	--	4.00	--	0.00
40200610	--	4.00	--	0.00
40300107	--	9.60	--	0.00
40300152	--	2.40	--	0.00
40300102	--	261.60	--	0.00
40300104	--	864.00	--	0.00
40300203	--	2.40	--	0.00
40300204	--	0.24	--	0.00
40300220	--	0.24	--	0.00
40300265	--	0.00	--	0.00
40400151	--	26.40	--	0.00
40300299	148.80	--	0.00	--
40400111	1264.80	--	0.00	--
40400116	2.40	--	0.00	--
Total	2805.60	1622.00	4.80	4.80

==========

Facility ID: 3094 Name: _____
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30600104	0.00	0.00	26.40	26.40
40300152	333.60	333.60	0.00	0.00
40301098	110.40	110.40	0.00	0.00
40301099	136.80	136.80	0.00	0.00
10100401	182.40	182.40	2136.00	2135.80
10100405	547.20	547.20	6408.00	6407.38
10100601	182.40	182.00	3244.80	3244.39
Total	1492.80	1492.40	11815.20	11813.97

==========

Facility ID: 3306 Name: Thomas Organ Co.
County: 19 SIC Code: 3931

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200410	--	91.20	--	0.00
40200510	--	5.60	--	0.00
40200901	31.20	75.37	0.00	0.00
40200902	10.40	12.13	0.00	0.00
40200906	--	0.80	--	0.00

40201001	0.00	0.00	3.20	3.20
40200401	72.80	--	0.00	--
40200601	45.60	--	0.00	--
40200801	24.00	--	0.00	--
Total	184.00	185.10	3.20	3.20

==========

Facility ID: 3371 Name: TRW Inc.
County: 19 SIC Code: 3761

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30112704	--	34.20	--	0.00
39000699	3.20	1.80	60.00	61.20
39001099	0.80	0.80	12.80	12.80
40100202	--	14.40	--	0.00
40100203	114.40	26.10	0.00	0.00
40100204	--	1.80	--	0.00
40200401	--	0.90	--	0.00
40200501	--	0.36	--	0.00
40200601	--	0.90	--	0.00
40200701	3.20	1.80	0.00	0.00
40200901	--	9.00	--	0.00
40200902	--	4.50	--	0.00
40200910	--	0.90	--	0.00
40200912	--	17.10	--	0.00
40200914	--	0.90	--	0.00
40200917	--	0.36	--	0.00
40200918	--	0.90	--	0.00
40200922	--	1.80	--	0.00
40299999	--	2.70	--	0.00
40500411	--	1.80	--	0.00
Total	121.60	123.02	72.80	74.00

==========

Facility ID: 3402 Name: Union Carbide
County: 19 SIC Code: 2821

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200602	0.00	0.00	2.40	2.40
39000799	21.60	21.60	312.00	312.00
39099998	7.20	7.20	182.40	182.40
40300198	2.30	2.30	0.00	0.00
40300199	3.20	3.20	0.00	0.00

30119701	--	160.80	--	0.00
30101807	--	127.20	--	0.00
40200710	--	2.40	--	0.00
40100299	--	6.40	--	0.00
40200901	--	34.40	--	0.00
40200914	--	22.40	--	0.00
40200918	--	3.20	--	0.00
30101802	91.20	--	0.00	--
30101805	57.60	--	0.00	--
30101899	16.80	--	0.00	--
30199999	104.00	--	0.00	--
30600501	50.40	--	0.00	--
40200401	69.60	--	0.00	--
Total	423.90	391.10	496.80	496.80

==========

Facility ID: 3430 Name: Utility Trailer Mfg
County: 19 SIC Code: 5012

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
39000599	0.00	0.00	1.60	2.40
39000699	0.00	0.00	1.60	2.40
39001099	0.00	0.00	0.80	0.80
40100204	--	32.80	--	0.00
40100205	--	408.80	--	0.00
40200501	156.00	155.20	0.00	0.00
40200601	16.80	34.40	0.00	0.00
40200701	21.60	21.60	0.00	0.00
40200902	83.20	83.20	0.00	0.00
40200920	82.40	82.40	0.00	0.00
40188801	442.40	--	0.00	--
40200101	15.20	--	0.00	--
49099999	34.40	--	0.00	--
Total	852.00	818.40	4.00	5.60

==========

Facility ID: 3506 Name: Ward Engineering
County: 19 SIC Code: 3714

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200410	--	52.80	--	0.00
40200510	--	33.60	--	0.00
40200901	--	9.60	--	0.00

40200902	--	52.80	--	0.00
40200903	--	14.40	--	0.00
40200917	--	55.20	--	0.00
40200918	--	24.00	--	0.00
40200921	--	33.60	--	0.00
40200922	--	7.20	--	0.00
40200199	90.40	--	0.00	--
40200504	93.60	--	0.00	--
40200599	90.00	--	0.00	--
40200803	7.20	--	0.00	--
Total	281.20	283.20	0.00	0.00

==========

Facility ID: 3521 Name: Weber Aircraft
County: 19 SIC Code: 3728

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100203	144.80	144.80	0.00	0.00
40200110	--	3.40	--	0.00
40200401	25.60	8.50	0.00	0.00
40200501	41.60	17.00	0.00	0.00
40200701	23.00	10.20	0.00	0.00
40200918	--	57.80	--	0.00
40200922	--	3.40	--	0.00
40200102	7.20	--	0.00	--
40200105	7.20	--	0.00	--
40200199	7.20	--	0.00	--
40200499	10.40	--	0.00	--
40200702	7.20	--	0.00	--
40200901	72.00	--	0.00	--
40299999	2.40	--	0.00	--
Total	348.60	245.10	0.00	0.00

==========

Facility ID: 4208 Name: Pacific Oasis Refinery
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200402	4.80	4.80	33.60	33.60
10200502	4.80	4.80	33.60	33.60
10200602	19.20	19.20	168.00	168.00
10200702	14.40	14.40	122.40	122.40
20200202	--	103.20	--	254.40

30600103	0.00	0.00	18.20	18.20
30600104	76.00	76.00	660.00	660.00
30600401	--	7.20	--	4.80
30600503	--	24.00	--	0.00
30600701	--	4.80	--	0.00
30600801	--	81.60	--	0.00
30600802	--	0.00	--	0.00
30600804	--	4.80	--	0.00
30600806	--	31.20	--	0.00
30699998	0.00	0.00	0.00	0.00
40300102	76.80	16.80	0.00	0.00
40300104	--	151.20	--	0.00
40300105	--	4.80	--	0.00
40300106	--	21.60	--	0.00
40300107	--	0.24	--	0.00
40300121	--	0.24	--	0.00
40300124	--	2.40	--	0.00
40300129	--	12.00	--	0.00
40300150	--	4.80	--	0.00
40300151	--	36.00	--	0.00
40300152	--	0.00	--	0.00
40300166	--	0.00	--	0.00
40300169	--	0.24	--	0.00
40300174	--	9.60	--	0.00
40300201	24.00	4.80	0.00	0.00
40300202	4.80	4.80	0.00	0.00
40300203	2.40	7.20	0.00	0.00
40300204	--	9.60	--	0.00
40300205	28.80	4.80	0.00	0.00
40300206	2.40	2.40	0.00	0.00
40300220	--	0.24	--	0.00
40300222	--	4.80	--	0.00
40300250	--	4.80	--	0.00
40300251	--	2.40	--	0.00
40300265	--	0.48	--	0.00
40300267	--	7.20	--	0.00
40600131	--	56.80	--	0.00
40600135	--	1.60	--	0.00
20200201	96.00	--	67.20	--
30600201	146.40	--	0.00	--
30600601	146.40	--	0.00	--
30601301	295.20	--	0.00	--
40300103	50.40	--	0.00	--
40300299	2.40	--	0.00	--
40400199	76.00	--	0.00	--
40600101	176.80	--	0.00	--
40600126	176.80	--	0.00	--
40600198	20.80	--	0.00	--
Total	1445.60	747.84	1103.00	1295.00

Facility ID: 4210 Name: Edgington Oil Refinery
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20200401	2.40	2.40	31.20	31.20
30600103	14.40	14.40	388.80	388.80
30600104	7.20	7.20	235.20	235.20
30600503	--	16.80	--	0.00
30600602	--	2.40	--	0.00
30600701	--	2.40	--	0.00
30600801	186.00	57.60	0.00	0.00
30600802	--	28.80	--	0.00
30600804	--	4.80	--	0.00
30600806	--	28.80	--	0.00
30601101	--	12.00	--	0.00
40200510	--	6.40	--	0.00
40200901	--	1.60	--	0.00
40300198	--	50.40	--	0.00
40300199	132.00	50.40	0.00	0.00
40300298	--	50.40	--	0.00
40300299	--	50.40	--	0.00
40600199	--	27.20	--	0.00
30600201	2.40	--	0.00	--
30600401	14.40	--	0.00	--
30600805	9.60	--	0.00	--
30699998	27.20	--	0.00	--
30699999	16.80	--	0.00	--
Total	412.40	414.40	655.20	655.20

==========

Facility ID: 4212 Name: Mobil Oil Refinery
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200601	48.00	48.00	595.20	595.20
10200602	12.00	12.00	148.80	148.80
10200603	12.00	12.00	148.80	148.80
10200702	24.00	24.00	302.40	302.40
20200202	105.60	105.60	74.40	280.80

30600103	0.00	0.00	4.80	4.80
30600104	326.40	326.40	4017.60	4017.60
30600201	110.40	110.40	1185.60	1185.60
30600401	0.00	0.00	0.00	0.00
30600501	0.00	0.00	9.60	9.60
30600504	12.00	12.00	0.00	0.00
30600801	187.20	187.20	0.00	0.00
30600802	91.20	91.20	0.00	0.00
30600803	405.60	405.60	0.00	0.00
30600804	4.80	4.80	0.00	0.00
30600805	376.80	376.80	0.00	0.00
30601301	132.00	132.00	45.60	45.60
30688801	67.20	67.20	0.00	0.00
40200501	36.80	36.80	0.00	0.00
40300101	12.00	12.00	0.00	0.00
40300102	108.00	108.00	0.00	0.00
40300103	352.80	352.80	0.00	0.00
40300104	12.00	12.00	0.00	0.00
40300152	12.00	12.00	0.00	0.00
40300198	0.00	0.00	0.00	0.00
40300199	204.00	204.00	0.00	0.00
40300201	376.80	376.80	0.00	0.00
40300202	163.20	163.20	0.00	0.00
40300203	297.60	297.60	0.00	0.00
40300204	206.40	206.40	0.00	0.00
40300205	100.80	100.80	0.00	0.00
40300216	64.80	64.80	0.00	0.00
40300299	60.00	60.00	0.00	0.00
40399999	0.00	0.00	0.00	0.00
40600126	7.20	7.20	0.00	0.00
40600130	2.40	2.40	0.00	0.00
40600499	7.20	7.20	0.00	0.00
Total	3939.20	3939.20	6532.79	6739.19

==========

Facility ID: 4215 Name: Chevron USA Refinery
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200501	28.80	28.80	184.80	184.80
10200701	220.80	220.80	2851.20	2851.20
10200702	24.00	24.00	295.20	295.20
10300504	4.80	4.80	33.60	33.60
20200202	393.60	393.60	607.20	607.20
30103299	0.00	0.00	0.00	0.00

30190099	12.00	12.00	0.00	0.00
30600103	84.00	84.00	552.00	552.00
30600104	595.20	595.20	8671.18	8671.18
30600201	31.20	31.20	1284.00	1284.00
30600301	16.80	16.80	0.00	0.00
30600401	4.80	4.80	0.00	0.00
30600501	0.00	0.00	0.00	0.00
30600502	319.20	319.20	0.00	0.00
30600801	110.40	110.40	0.00	0.00
30600803	2.40	2.40	0.00	0.00
30600804	420.00	420.00	0.00	0.00
30600805	1362.00	1362.00	0.00	0.00
30600999	16.80	16.80	0.00	0.00
30601201	24.00	24.00	0.00	0.00
30601202	16.80	16.80	0.00	0.00
30601301	117.60	117.60	0.00	0.00
30699998	564.00	564.00	0.00	0.00
30699999	566.40	566.40	0.00	0.00
40100399	298.40	298.40	0.00	0.00
40200101	7.20	7.20	0.00	0.00
40200501	27.40	27.40	0.00	0.00
40300105	--	14.40	--	0.00
40300107	2.40	31.20	0.00	0.00
40300150	--	19.20	--	0.00
40300152	--	26.40	--	0.00
40300198	--	24.00	--	0.00
40300199	31.20	7.20	0.00	0.00
40300201	184.80	782.40	0.00	0.00
40300202	324.00	31.20	0.00	0.00
40300203	76.80	144.00	0.00	0.00
40300204	319.20	36.00	0.00	0.00
40300205	31.20	24.00	0.00	0.00
40300207	--	4.80	--	0.00
40300220	--	24.00	--	0.00
40300222	--	40.80	--	0.00
40300230	--	33.60	--	0.00
40300250	--	24.00	--	0.00
40300252	--	2.40	--	0.00
40300265	--	225.60	--	0.00
40300267	--	0.96	--	0.00
40300275	--	0.24	--	0.00
40300298	--	9.60	--	0.00
40300299	86.40	7.20	0.00	0.00
40600105	10.40	10.40	0.00	0.00
40600126	458.40	458.40	0.00	0.00
40600151	28.80	28.80	0.00	0.00
40600154	2.40	2.40	0.00	0.00

40600197	19.80	19.80	0.00	0.00
40600198	24.00	24.00	0.00	0.00
40600199	9.60	9.60	0.00	0.00
49099999	0.00	0.00	0.00	0.00
40300103	62.40	--	0.00	--
40300208	2.40	--	0.00	--
40300212	4.80	--	0.00	--
40300215	4.80	--	0.00	--
40300302	2.40	--	0.00	--
40300399	2.40	--	0.00	--
40399999	669.60	--	0.00	--
Total	7626.79	7335.18	14479.18	14479.18

==========

Facility ID: 4217 Name: Union Oil Refinery
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200501	9.60	9.60	62.40	62.40
10200502	2.40	2.40	12.00	12.00
10200601	48.00	48.00	427.20	427.20
10200602	45.60	45.60	376.80	376.80
10300502	0.00	0.00	2.40	2.40
10301301	2.40	2.40	16.80	16.80
20200202	--	868.80	--	2275.20
30600103	4.80	4.80	48.00	48.00
30600104	400.60	400.60	3461.80	3461.80
30600201	108.00	160.80	2572.80	2572.80
30600401	--	0.48	--	16.80
30600503	--	247.20	--	0.00
30600602	--	7.20	--	0.00
30600701	--	43.20	--	0.00
30600801	2.40	1300.80	0.00	0.00
30600802	--	33.60	--	0.00
30600804	--	4.80	--	0.00
30600806	--	148.80	--	0.00
40100202	--	2.40	--	0.00
40200110	--	8.80	--	0.00
40200902	--	3.20	--	0.00

40300169	--	16.80	--	0.00
40300198	--	36.00	--	0.00
40300199	--	21.60	--	0.00
40300201	--	28.80	--	0.00
40300202	247.20	2.40	0.00	0.00
40300203	12.00	2.40	0.00	0.00
40300204	100.80	9.60	0.00	0.00
40300205	--	4.80	--	0.00
40300207	21.60	9.60	0.00	0.00
40300220	--	0.48	--	0.00
40300221	--	9.60	--	0.00
40300222	--	2.40	--	0.00
40300224	--	19.20	--	0.00
40300230	--	2.40	--	0.00
40300250	--	2.40	--	0.00
40300252	--	2.40	--	0.00
40300265	--	0.24	--	0.00
40300266	--	0.48	--	0.00
40300267	--	0.24	--	0.00
40300269	--	2.40	--	0.00
40300275	--	0.24	--	0.00
40300298	--	7.20	--	0.00
40300299	136.80	0.24	0.00	0.00
40600131	--	5.60	--	0.00
40600134	--	0.80	--	0.00
40600135	--	0.80	--	0.00
20200402	1368.00	--	600.00	--
30600301	2.40	--	0.00	--
30600803	19.20	--	0.00	--
30600805	43.90	--	0.00	--
30601101	48.00	--	0.00	--
30601301	98.40	--	0.00	--
30699998	26.40	--	0.00	--
30699999	189.60	--	0.00	--
40200501	17.60	--	0.00	--
40300103	7.20	--	0.00	--
40300303	14.40	--	0.00	--
40300305	2.40	--	0.00	--
40300312	2.40	--	0.00	--
40300399	55.20	--	0.00	--
40600101	4.80	--	0.00	--
Total	3063.70	3706.99	7580.20	9272.19

Facility ID: 4967 Name: So. Cal. Carton Co.
County: 19 SIC Code: 5113

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200924	7.20	8.00	0.00	0.00
40200922	--	17.60	--	0.00
40200918	10.40	8.00	0.00	0.00
40200914	--	3.20	--	0.00
49099999	10.40	10.40	0.00	0.00
40200401	6.40	--	0.00	--
40200801	4.80	--	0.00	--
40900922	17.60	--	0.00	--
Total	56.80	47.20	0.00	0.00

==========

Facility ID: 5002 Name: _____
County: 19 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30600103	21.60	21.60	280.80	280.80
30600104	12.00	12.00	249.60	249.60
40300198	45.60	45.60	0.00	0.00
40300199	28.80	28.80	0.00	0.00
40301097	16.80	16.80	0.00	0.00
40301098	240.00	240.00	0.00	0.00
40301099	175.20	175.20	0.00	0.00
10100401	391.20	391.10	5107.20	5108.06
10100601	422.40	421.20	7905.60	7905.45
Total	1353.60	1352.29	13543.20	13543.91

==========

Facility ID: 5014 Name: _____
County: 19 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40301021	9.60	9.60	0.00	0.00
40301097	4.80	4.80	0.00	0.00
40301197	2.40	2.40	0.00	0.00
40301198	117.60	117.60	0.00	0.00
10100401	187.20	187.50	4185.60	4185.89
10100405	21.60	21.70	482.40	482.40
10100601	64.80	64.80	1281.60	1281.50
Total	408.00	408.40	5949.60	5949.79

Facility ID: 5017 Name: Questar Furniture Co.
County: 19 SIC Code: 2511

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10300604	--	0.80	--	0.00
40200410	--	180.00	--	0.00
40200510	--	93.60	--	0.00
40200610	--	523.20	--	0.00
40200903	--	28.00	--	0.00
40200912	--	36.80	--	0.00
40200918	--	53.60	--	0.00
40200921	--	100.00	--	0.00
40200922	--	45.60	--	0.00
40200499	312.00	--	0.00	--
40200599	391.20	--	0.00	--
40200699	370.40	--	0.00	--
Total	1073.60	1061.60	0.00	0.00

Facility ID: 5030 Name: SCE - Alamitos
County: 19 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200403	336.00	325.89	3902.40	3508.26
10200603	36.00	34.80	528.00	474.72
20100101	4.80	4.80	57.60	79.45
20100201	4.80	4.80	21.60	30.05
40300121	--	2.40	--	0.00
40300166	--	4.80	--	0.00
40300107	--	14.40	--	0.00
40300152	--	12.00	--	0.00
40200501	--	0.80	--	0.00
40200601	--	0.80	--	0.00
10100401	336.00	325.42	3902.40	3508.25
10100405	1008.00	977.07	11707.20	10524.74
10100501	336.00	325.69	3902.40	3508.25
10100601	180.00	173.20	2640.00	2373.16
40301097	19.20	--	0.00	--
40301098	588.00	--	0.00	--
40301099	734.40	--	0.00	--
Total	3583.20	2206.88	26661.59	24006.89

Facility ID: 5032 Name: ACT Container Co
County: 19 SIC Code: 3412

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200610	--	8.80	--	0.00
40200501	10.50	--	0.00	--
40200803	3.20	--	0.00	--
Total	13.70	8.80	0.00	0.00

Facility ID: 5035 Name: Advanced Structures
County: 19 SIC Code: 3354

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200603	--	0.80	--	16.80
40100202	93.60	93.60	0.00	0.00
40200401	8.00	8.80	0.00	0.00
40200501	--	1.60	--	0.00
40200601	15.20	20.00	0.00	0.00
40200701	23.20	30.40	0.00	0.00
40200901	20.80	0.80	0.00	0.00
40200912	--	0.32	--	0.00
40200917	--	0.80	--	0.00
40200918	87.20	85.60	0.00	0.00
40200921	--	2.40	--	0.00
40200922	--	13.60	--	0.00
40200924	--	4.80	--	0.00
40202601	--	2.40	--	0.00
40200801	13.60	--	0.00	--
40201001	0.80	--	17.60	--
40288801	2.40	--	0.00	--
Total	264.80	265.92	17.60	16.80

Facility ID: 5042 Name: American Can Co.
County: 19 SIC Code: 3411

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
39001099	--	0.00	--	1.60
40200301	74.40	25.61	0.00	0.00

40200401	33.60	69.94	0.00	0.00
40200901	21.60	179.88	0.00	0.00
49099999	[illegible]	[illegible]	[illegible]	[illegible]

40300106	--	2.40	--	0.00
40300151	--	2.40	--	0.00
40300120	--	0.72	--	0.00
40300165	--	2.40	--	0.00
40300201	12.00	7.20	0.00	0.00
40300202	12.00	0.48	0.00	0.00
40300222	--	2.40	--	0.00
40300267	--	0.24	--	0.00
40300203	4.80	0.48	0.00	0.00
40300204	12.00	4.80	0.00	0.00
40600131	--	81.60	--	0.00
40600135	--	2.40	--	0.00
40200101	19.20	19.20	0.00	0.00
30600502	485.30	--	9.20	--
30600805	333.60	--	0.00	--
40300104	19.20	--	0.00	--
40300109	2.40	--	0.00	--
40300299	9.60	--	0.00	--
40300302	3.20	--	0.00	--
40300303	2.40	--	0.00	--
40300399	2.40	--	0.00	--
40399999	21.60	--	0.00	--
40600101	36.80	--	0.00	--
40600127	93.60	--	0.00	--
40600197	3.20	--	0.00	--
Total	1133.30	676.80	527.60	616.80

Facility ID: 5088 Name: _____
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20100101	386.40	386.40	634.40	634.40
20100201	20.80	20.80	143.20	143.20
40301019	9.60	9.60	0.00	0.00
40301021	4.80	4.80	0.00	0.00
40301097	31.20	31.20	0.00	0.00
40301099	7.20	7.20	0.00	0.00
10100405	38.40	37.60	756.00	756.10
10100501	7.20	7.20	139.20	139.30
10100601	16.80	15.80	386.40	386.70
Total	522.40	520.60	2059.20	2059.70

Facility ID: 5089 Name: Golden Eagle
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30600104	0.00	0.00	2.40	2.40
40300104	228.00	84.00	0.00	0.00
40300102	--	19.20	--	0.00
40300107	--	0.24	--	0.00
40300152	--	0.24	--	0.00
40300203	--	0.96	--	0.00
40300204	--	2.40	--	0.00
40300207	--	0.00	--	0.00
40300252	--	0.00	--	0.00
40600132	--	8.80	--	0.00
40400151	--	4.80	--	0.00
40400162	--	0.24	--	0.00
40300199	228.00	--	0.00	--
Total	456.00	120.88	2.40	2.40

==========

Facility ID: 5091 Name: Golden Eagle Refinery
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200502	2.40	2.40	9.60	9.60
10200602	4.80	4.80	60.00	60.00
10200603	0.00	0.00	43.20	43.20
30600103	0.00	0.00	2.40	2.40
30600104	7.20	7.20	194.40	194.40
30600401	--	4.80	--	4.80
30600503	--	4.80	--	0.00
30600701	--	0.24	--	0.00
30600801	--	64.80	--	0.00
30600804	--	4.80	--	0.00
30600806	--	24.00	--	0.00
40200510	--	4.80	--	0.00
40200610	--	2.40	--	0.00
40300105	--	4.80	--	0.00
40300150	7.20	31.20	0.00	0.00
40300107	4.80	2.40	0.00	0.00
40300152	24.00	2.40	0.00	0.00
40300106	--	0.24	--	0.00
40300151	--	0.48	--	0.00
40300102	45.60	7.20	0.00	0.00

40300104	31.20	26.40	0.00	0.00
40300121	--	2.40	--	0.00
40300166	--	0.48	--	0.00
40300205	--	0.24	--	0.00
40300250	--	0.48	--	0.00
40300203	69.60	0.48	0.00	0.00
40300204	--	0.72	--	0.00
40600135	--	60.00	--	0.00
30600201	134.40	--	0.00	--
30600301	24.00	--	0.00	--
30600501	14.40	--	0.00	--
30600502	16.80	--	0.00	--
30600601	2.40	--	0.00	--
30600803	36.00	--	0.00	--
30600805	7.20	--	0.00	--
30601301	50.40	--	0.00	--
30699999	50.40	--	0.00	--
40300112	9.60	--	0.00	--
40600101	48.00	--	0.00	--
40600105	20.00	--	0.00	--
Total	610.40	264.96	309.60	314.40

Facility ID: 5096 Name: _____
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20100101	0.00	0.00	7.20	7.20
20100201	0.00	0.00	4.80	4.80
40301097	24.00	24.00	0.00	0.00
40301099	7.20	7.20	0.00	0.00
40301115	4.80	4.80	0.00	0.00
40301197	2.40	2.40	0.00	0.00
40301198	84.00	84.00	0.00	0.00
10100401	7.20	7.20	254.40	254.50
10100405	165.60	165.90	5440.80	5440.58
10100601	2.40	2.40	139.20	138.60
Total	297.60	297.90	5846.40	5845.68

Facility ID: 5116 Name: _____
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20100101	4.80	4.80	86.40	86.40
20100201	43.20	43.20	292.80	292.80
40301097	211.20	211.20	0.00	0.00
40301099	28.80	28.80	0.00	0.00
40301115	7.20	7.20	0.00	0.00
10100405	105.60	106.00	2095.20	2095.10
10100601	9.60	9.10	192.00	192.00
Total	410.40	410.30	2666.40	2666.29

==========

Facility ID: 5119 Name: _____

40300170	--	12.00	--	0.00
40300131	--	0.24	--	0.00
40300176	--	0.00	--	0.00
40300198	31.20	0.48	0.00	0.00
40300199	309.60	0.24	0.00	0.00
30101861	--	60.00	--	0.00
30112505	--	60.00	--	0.00
30101802	2.40	--	0.00	--
30199999	2.40	--	0.00	--
40200101	7.20	--	0.00	--
Total	379.20	317.04	484.80	484.80

==========

Facility ID: 5135 Name: Central Plants
County: 19 SIC Code: 4961

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10300501	2.40	2.40	55.20	55.20
10300502	2.40	2.40	38.40	38.40
10300601	2.40	2.40	108.00	108.00
10300602	2.40	2.40	76.80	76.80
20100202	76.80	76.80	55.20	208.80
Total	86.40	86.40	333.60	487.20

==========

Facility ID: 5175 Name: City of Los Angeles
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200602	105.60	105.60	652.80	652.80
20200202	--	1670.40	--	4056.00
40301115	86.40	86.40	0.00	0.00
40301197	2.40	2.40	0.00	0.00
10100401	40.80	40.70	604.80	604.30
10100405	208.80	208.10	3225.60	3225.49
10100601	112.80	113.10	705.60	706.10
Total	556.80	2226.70	5188.80	9244.69

==========

Facility ID: 5321 Name: SCE - Santa Fe Springs
County: 19 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
39000699	--	0.24	--	9.60
40300124	--	0.72	--	0.00
40300169	--	0.96	--	0.00
40300121	--	0.24	--	0.00
40300166	--	0.96	--	0.00
40299999	--	0.32	--	0.00
40200920	--	0.80	--	0.00
30600104	0.00	--	28.80	--
40300199	158.40	--	0.00	--
Total	158.40	4.24	28.80	9.60

==========

Facility ID: 5325 Name: Saule Steel Co.
County: 19 SIC Code: 3312

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20200101	3.20	3.20	37.60	38.40
20200202	--	0.00	--	0.48
20200301	2.40	2.40	1.60	2.40
39000599	0.00	0.00	7.20	7.20
39000699	2.40	2.40	88.80	88.80
40200201	--	124.80	--	0.00
40200501	--	0.80	--	0.00
40200901	--	7.20	--	0.00
40200914	--	1.60	--	0.00
20299997	0.00	--	0.80	--
40200101	64.00	--	0.00	--
Total	72.00	142.40	136.00	137.28

==========

Facility ID: 5332 Name: Chevron Oil Prod.
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20200202	453.60	453.60	1106.40	1106.40
20200301	9.60	9.60	7.20	7.20
20200401	--	0.24	--	2.40
30699998	45.60	45.60	0.00	0.00
39000699	0.00	0.00	21.60	21.60
40300101	2.40	2.40	0.00	0.00
40300102	7.20	4.80	0.00	0.00

40300104	36.00	4.80	0.00	0.00
40300152	7.20	7.20	0.00	0.00
31000122	--	156.00	--	0.00
40200501	--	1.60	--	0.00
40200914	--	109.60	--	0.00
40200920	--	34.40	--	0.00
20200902	0.00	--	2.40	--
30600501	4.80	--	0.00	--
Total	566.40	829.84	1137.60	1137.60

Facility ID: 5343 Name: Chevron USA
County: 19 SIC Code: 2911

20200202	32.80	32.80	23.20	88.00
20200301	1.60	1.60	1.60	1.60
40300104	7.20	7.20	0.00	0.00
Total	41.60	41.60	24.80	89.60

Facility ID: 5384 Name: Union Oil Co
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	595.20	595.20	412.80	1552.00

Facility ID: 5400 Name: Western Metal Decorating
County: 19 SIC Code: 2752

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20200102	3.20	0.64	55.20	0.35
39000699	0.00	0.00	3.60	3.60
40200301	24.00	58.63	0.00	0.00
40200401	--	9.60	--	0.00
40200501	--	24.00	--	0.00
40200601	--	14.40	--	0.00
40200901	--	6.40	--	0.00
40200920	--	9.60	--	0.00
40200921	--	3.20	--	0.00
40500411	--	0.80	--	0.00
Total	27.20	127.27	58.80	3.95

==========

Facility ID: 5405 Name: Bethlehem Steel
County: 19 SIC Code: 3312

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20200301	2.40	2.40	2.40	2.40
20200401	--	7.20	--	79.20
20200501	--	0.00	--	0.48
30400701	0.00	0.00	9.60	9.60
30400799	0.00	0.00	4.80	4.80
39000505	2.40	2.40	76.80	76.80
39000605	14.40	14.40	237.60	240.00
40100201	69.60	69.60	0.00	0.00
40200201	--	2.40	--	0.00
40200501	--	4.80	--	0.00
20200902	7.20	--	79.20	--
40200101	4.80	--	0.00	--
Total	100.80	103.20	410.40	413.28

==========

Facility ID: 5566 Name: Arthur C. Withrow
County: 19 SIC Code: 2992

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40400236	--	54.40	--	0.00

40400251	--	1.60	--	0.00
30699998	55.20	--	0.00	--
Total	55.20	56.00	0.00	0.00

==========

Facility ID: 5931 Name: Reliance Upholstery
County: 19 SIC Code: 2821

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30112702	--	312.80	--	0.00
Total	--	312.80	--	0.00

==========

Facility ID: 5940 Name: _____
County: 19 SIC Code: 4911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40301020	52.80	52.80	0.00	0.00
40301021	31.20	31.20	0.00	0.00
40301099	4.80	4.80	0.00	0.00
40301197	19.20	19.20	0.00	0.00
40301199	120.00	120.00	0.00	0.00
10100401	148.80	148.90	2044.80	2044.80
10100405	1024.80	1025.00	14085.60	14085.96
10100601	50.40	49.80	926.40	926.60
Total	1452.00	1451.70	17056.79	17057.36

==========

Facility ID: 6004 Name: National Plywood
County: 19 SIC Code: 2436

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
39000699	0.00	0.00	4.80	4.80
40100202	--	2.40	--	0.00
40200410	--	179.20	--	0.00
40200903	--	43.20	--	0.00
40200918	--	60.00	--	0.00
40200922	--	16.00	--	0.00
40200401	194.40	--	0.00	--
40200802	104.00	--	0.00	--
40200803	2.40	--	0.00	--
Total	300.80	300.80	4.80	4.80

==========

Facility ID: 6044 Name: Sawin & Co.
County: 19 SIC Code: 2511

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200310	--	56.00	--	0.00
40200410	58.40	58.40	0.00	0.00
40200901	13.60	13.60	0.00	0.00
40200610	56.00	--	0.00	--
Total	128.00	128.00	0.00	0.00

==========

Facility ID: 6184 Name: Hoyne Industries
County: 19 SIC Code: 3231

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200110	--	84.00	--	0.00
40200920	2.80	9.80	0.00	0.00
40200101	63.00	--	0.00	--
40200801	21.00	--	0.00	--
Total	86.80	93.80	0.00	0.00

==========

Facility ID: 6323 Name: JBL Sound, Inc.
County: 19 SIC Code: 3651

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10300501	0.00	0.00	2.40	2.70
10300602	0.00	0.80	8.00	9.45
40100202	38.40	37.70	0.00	0.00
40200201	--	32.00	--	0.00
40200401	3.20	3.20	0.00	0.00
40200501	27.20	27.20	0.00	0.00
40200701	7.20	7.20	0.00	0.00
40200901	10.40	8.67	0.00	0.00
40200902	54.40	49.92	0.00	0.00
40200910	27.20	26.85	0.00	0.00
40200918	97.60	96.55	0.00	0.00
40200922	--	3.20	--	0.00

40200929	--	4.00	--	0.00
40200101	18.40	--	0.00	--
Total	284.00	297.29	10.40	12.15

==========

Facility ID: 6550 Name: _____
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20100202	208.80	208.80	146.40	146.40
40301011	--	9.60	--	0.00
43001011	9.60	--	0.00	--
Total	218.40	218.40	146.40	146.40

==========

Facility ID: 6607 Name: Chevron USA
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	33.60	33.60	24.00	91.20
20200301	2.40	2.40	0.00	0.00
30600104	0.00	0.00	9.60	9.60
Total	36.00	36.00	33.60	100.80

==========

Facility ID: 6608 Name: Chevron USA
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	31.20	31.20	24.00	91.20
30600104	0.00	0.00	2.40	2.40
Total	31.20	31.20	26.40	93.60

==========

Facility ID: 6746 Name: Exxon Co.
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	254.40	254.40	175.20	628.80

30600104	0.00	0.00	4.80	4.80
40301012	4.80	4.80	0.00	0.00
Total	259.20	259.20	180.00	633.60

==========

Facility ID: 6750 Name: Chevron USA
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	67.20	67.20	48.00	182.40
Total	67.20	67.20	48.00	182.40

==========

Facility ID: 6752 Name: Shell Oil Co
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	12.00	12.00	7.20	4.80
40301010	40.80	40.80	0.00	0.00
40301012	12.00	12.00	0.00	0.00
Total	64.80	64.80	7.20	4.80

==========

Facility ID: 6753 Name: Beren Oil Corp.
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	72.00	72.00	50.40	36.00
40301098	38.40	38.40	0.00	0.00
Total	110.40	110.40	50.40	36.00

==========

Facility ID: 7046 Name: Getty Oil Co.
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10500106	0.00	0.00	4.00	4.00
20200202	186.40	186.40	131.20	496.00
40188801	3.20	3.20	0.00	0.00

40300102	9.60	9.60	0.00	0.00
40300107	14.40	14.40	0.00	0.00
Total	213.60	213.60	135.20	500.00

==========

Facility ID: 7077 Name: VOT - Shaw
County: 19 SIC Code: 3429

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100202	228.50	224.40	0.00	0.00
40200901	--	0.68	--	0.00
40200910	--	8.50	--	0.00
40200914	--	15.30	--	0.00
40200918	--	6.80	--	0.00
40100399	24.00	--	0.00	--
40200101	7.00	--	0.00	--
40400199	93.60	--	0.00	--
Total	353.10	255.68	0.00	0.00

==========

Facility ID: 7182 Name: _____
County: 19 SIC Code: 3261

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200602	0.00	0.00	41.60	41.60
39000502	--	0.80	--	8.80
39000602	3.20	3.20	64.00	64.00
30900502	0.80	--	8.80	--
Total	4.00	4.00	114.40	114.40

==========

Facility ID: 100101 Name: Alondra Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	19.20	--	0.00
Total	--	19.20	--	0.00

==========

Facility ID: 100102 Name: Bandini Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	211.20	--	0.00
AAA46425	4.80	--	0.00	--
AAA46441	4.80	--	0.00	--
Total	9.60	211.20	0.00	0.00

==========

Facility ID: 100103 Name: Beverly Hills Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	1087.20	--	0.00
AAA46425	4106.40	--	0.00	--
AAA46441	492.00	--	0.00	--
Total	4598.40	1087.20	0.00	0.00

==========

Facility ID: 100105 Name: Cheviot Hills Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	261.60	--	0.00
AAA46425	26.40	--	0.00	--
AAA46441	112.80	--	0.00	--
Total	139.20	261.60	0.00	0.00

==========

Facility ID: 100106 Name: Coyote, West Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	64.80	--	0.00
AAA46425	36.00	--	0.00	--
AAA46441	9.60	--	0.00	--
Total	45.60	64.80	0.00	0.00

==========

Facility ID: 100110 Name: Hasley Canyon Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	86.40	--	0.00
AAA46425	9.60	--	0.00	--
Total	9.60	86.40	0.00	0.00

==========

Facility ID: 100111 Name: Howard Townsite Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	232.80	--	0.00
AAA46425	7.20	--	0.00	--
AAA46441	62.40	--	0.00	--
Total	69.60	232.80	0.00	0.00

==========

Facility ID: 100112 Name: Hyperion Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	9.60	--	0.00
Total	--	9.60	--	0.00

==========

Facility ID: 100113 Name: Inglewood Oil Field
County: 19 SIC Code: 1311

31000108	--	105.60	--	0.00
31000121	--	36.00	--	0.00
31000122	--	559.20	--	0.00
31000131	--	7.20	--	0.00
40400301	--	139.20	--	0.00
40400302	--	24.00	--	0.00
AAA46425	412.80	--	0.00	--
AAA46441	302.40	--	0.00	--
Total	715.20	3400.80	0.00	0.00

Facility ID: 100114 Name: Las Cienegas Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	136.80	--	0.00
AAA46425	160.80	--	0.00	--
AAA46441	304.80	--	0.00	--
Total	465.60	136.80	0.00	0.00

Facility ID: 100115 Name: Las Llajas Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	21.60	--	0.00
Total	--	21.60	--	0.00

Facility ID: 100116 Name: Lawndale Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	21.60	--	0.00
Total	--	21.60	--	0.00

Facility ID: 100117 Name: Long Beach Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000101	--	1264.80	--	0.00
31000104	--	554.40	--	0.00
31000107	--	7.20	--	0.00
31000108	--	28.80	--	0.00
31000111	--	0.72	--	0.00
31000121	--	31.20	--	0.00
31000122	--	556.80	--	0.00
31000131	--	7.20	--	0.00
40400301	--	355.20	--	0.00
40400302	--	36.00	--	0.00
AAA46425	381.60	--	0.00	--
AAA46441	172.80	--	0.00	--
Total	554.40	2842.32	0.00	0.00

==========

Facility ID: 100118 Name: Long Beach Airport Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	184.80	--	0.00
AAA46425	7.20	--	0.00	--
AAA46441	12.00	--	0.00	--
Total	19.20	184.80	0.00	0.00

==========

Facility ID: 100119 Name: Los Angeles City Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	0.00	--	0.00
AAA46425	7.20	--	0.00	--
Total	7.20	0.00	0.00	0.00

==========

Facility ID: 100120 Name: Los Angeles Downtown Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	43.20	--	0.00
AAA46425	38.40	--	0.00	--
AAA46441	98.40	--	0.00	--
Total	136.80	43.20	0.00	0.00

==========

Facility ID: 100121 Name: Los Angeles East Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	79.20	--	0.00
AAA46425	4.80	--	0.00	--
AAA46441	12.00	--	0.00	--
Total	16.80	79.20	0.00	0.00

==========

Facility ID: 100122 Name: Montebello Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	1185.60	--	0.00
AAA46425	72.00	--	0.00	--
AAA46441	74.40	--	0.00	--
Total	146.40	1185.60	0.00	0.00

==========

Facility ID: 100123 Name: Olympic Oil Field

Facility ID: 100124 Name: Playa Del Rey Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	105.60	--	0.00
AAA46425	7.20	--	0.00	--
Total	7.20	105.60	0.00	0.00

==========

Facility ID: 100125 Name: Potrero Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	225.60	--	0.00
AAA46425	9.60	--	0.00	--
AAA46441	16.80	--	0.00	--
Total	26.40	225.60	0.00	0.00

==========

Facility ID: 100126 Name: Rosecrans Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	808.80	--	0.00
AAA46425	40.80	--	0.00	--
AAA46441	100.80	--	0.00	--
Total	141.60	808.80	0.00	0.00

==========

Facility ID: 100127 Name: Rosecrans East Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	21.60	--	0.00
AAA46441	2.40	--	0.00	--
Total	2.40	21.60	0.00	0.00

==========

Facility ID: 100128 Name: Rosecrans South Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	187.20	--	0.00
AAA46425	4.80	--	0.00	--
AAA46441	19.20	--	0.00	--
Total	24.00	187.20	0.00	0.00

==========

Facility ID: 100129 Name: Salt Lake Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	456.00	--	0.00
AAA46425	26.40	--	0.00	--
AAA46441	45.60	--	0.00	--
Total	72.00	456.00	0.00	0.00

==========

Facility ID: 100130 Name: Salt Lake South Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	136.80	--	0.00
AAA46425	50.40	--	0.00	--
AAA46441	33.60	--	0.00	--
Total	84.00	136.80	0.00	0.00

==========

Facility ID: 100131 Name: Sansinena Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	1269.60	--	0.00
AAA46425	67.20	--	0.00	--
AAA46441	148.80	--	0.00	--
Total	216.00	1269.60	0.00	0.00

==========

Facility ID: 100132 Name: Santa Fe Springs Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000101	--	144.00	--	0.00
31000104	--	64.80	--	0.00
31000107	--	0.72	--	0.00
31000111	--	0.24	--	0.00
31000121	--	7.20	--	0.00
31000122	--	583.20	--	0.00
40400301	--	607.20	--	0.00
40400302	--	9.60	--	0.00
AAA46425	86.40	--	0.00	--
AAA46441	72.00	--	0.00	--
Total	158.40	1416.96	0.00	0.00

==========

Facility ID: 100133 Name: San Vicente Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	45.60	--	0.00
AAA46425	81.60	--	0.00	--
AAA46441	122.40	--	0.00	--
Total	204.00	45.60	0.00	0.00

==========

Facility ID: 100134 Name: Sawtelle Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	74.40	--	0.00
AAA46425	40.80	--	0.00	--
AAA46441	67.20	--	0.00	--
Total	108.00	74.40	0.00	0.00

==========

Facility ID: 100135 Name: Seal Beach Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	796.80	--	0.00
AAA46425	79.20	--	0.00	--
AAA46441	69.60	--	0.00	--
Total	148.80	796.80	0.00	0.00

==========

Facility ID: 100136 Name: Torrance Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000101	--	1504.80	--	0.00
31000104	--	660.00	--	0.00
31000107	--	7.20	--	0.00
31000108	--	76.80	--	0.00
31000111	--	0.48	--	0.00
31000121	--	48.00	--	0.00
31000122	--	297.60	--	0.00
31000131	--	7.20	--	0.00
40400301	--	386.40	--	0.00
40400302	--	19.20	--	0.00
AAA46425	256.80	--	0.00	--
AAA46441	273.60	--	0.00	--
Total	530.40	3007.68	0.00	0.00

==========

Facility ID: 100137 Name: Union Stn. Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	96.00	--	0.00
AAA46425	7.20	--	0.00	--
AAA46441	24.00	--	0.00	--
Total	31.20	96.00	0.00	0.00

==========

Facility ID: 100138 Name: Venice Beach Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	40.80	--	0.00
AAA46425	9.60	--	0.00	--
AAA46441	9.60	--	0.00	--
Total	19.20	40.80	0.00	0.00

==========

Facility ID: 100139 Name: Whittier Oil Field
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31000101	--	957.60	--	0.00
31000104	--	439.20	--	0.00
31000107	--	4.80	--	0.00
31000108	--	60.00	--	0.00
31000121	--	24.00	--	0.00
31000122	--	232.80	--	0.00
31000131	--	4.80	--	0.00
40400301	--	74.40	--	0.00
40400302	--	12.00	--	0.00
AAA46425	100.80	--	0.00	--
AAA46441	129.60	--	0.00	--
Total	230.40	1809.60	0.00	0.00

==========

Facility ID: 100140 Name: Aliso Canyon Oil Field
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	664.80	--	0.00
AAA46425	81.60	--	0.00	--
AAA46441	76.80	--	0.00	--
Total	158.40	664.80	0.00	0.00

==========

Facility ID: 100141 Name: Cascade Oil Field
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	127.20	--	0.00
AAA46425	7.20	--	0.00	--
Total	7.20	127.20	0.00	0.00

==========

Facility ID: 100142 Name: Castaic Hills Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	211.20	--	0.00
AAA46425	4.80	--	0.00	--
AAA46441	16.80	--	0.00	--
Total	21.60	211.20	0.00	0.00

==========

Facility ID: 100143 Name: Castaic Junction Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	208.80	--	0.00
AAA46425	36.00	--	0.00	--
AAA46441	144.00	--	0.00	--
Total	180.00	208.80	0.00	0.00

==========

Facility ID: 100144 Name: Del Valle Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	405.60	--	0.00
AAA46425	9.60	--	0.00	--
AAA46441	40.80	--	0.00	--
Total	50.40	405.60	0.00	0.00

==========

Facility ID: 100145 Name: Honor Rancho Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	81.60	--	0.00
AAA46425	43.20	--	0.00	--
AAA46441	16.80	--	0.00	--
Total	60.00	81.60	0.00	0.00

==========

Facility ID: 100146 Name: Lyon Canyon Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	40.80	--	0.00
Total	--	40.80	--	0.00

==========

Facility ID: 100147 Name: Newhall Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	660.00	--	0.00
AAA46425	4.80	--	0.00	--
AAA46441	2.40	--	0.00	--
Total	7.20	660.00	0.00	0.00

==========

Facility ID: 100148 Name: Newhall-Portrero Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	895.20	--	0.00
Total	--	895.20	--	0.00

==========

Facility ID: 100149 Name: Oak Canyon Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	237.60	--	0.00
AAA46425	24.00	--	0.00	--
AAA46441	31.20	--	0.00	--
Total	55.20	237.60	0.00	0.00

==========

Facility ID: 100150 Name: Placerita Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000101	--	182.40	--	0.00
31000104	--	79.20	--	0.00

31000107	--	0.72	--	0.00
31000111	--	0.24	--	0.00
31000121	--	14.40	--	0.00
31000122	--	640.80	--	0.00
40400301	--	295.20	--	0.00
40400302	--	14.40	--	0.00
AAA46425	38.40	--	0.00	--
Total	38.40	1227.36	0.00	0.00

==========

Facility ID: 100151 Name: Ramona Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	477.60	--	0.00
AAA46425	4.80	--	0.00	--
AAA46441	19.20	--	0.00	--
Total	24.00	477.60	0.00	0.00

==========

Facility ID: 100152 Name: Saugus Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	21.60	--	0.00
Total	--	21.60	--	0.00

==========

Facility ID: 100153 Name: Tapia Oil Field
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	170.40	--	0.00
AAA46425	2.40	--	0.00	--
Total	2.40	170.40	0.00	0.00

==========

Facility ID: 100154 Name: Wayside Canyon Oil Field
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	38.40	--	0.00
AAA46425	4.80	--	0.00	--
Total	4.80	38.40	0.00	0.00

==========

Facility ID: 100155 Name: Canton Creek Oil Field
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	14.40	--	0.00
Total	--	14.40	--	0.00

==========

Facility ID: 8241009 Name: Bunker-Ramo Corp.
County: 19 SIC Code: 3679

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100202	--	24.80	--	0.00
40100204	--	2.40	--	0.00
40100210	--	4.00	--	0.00
40200701	--	0.80	--	0.00
40200901	--	1.60	--	0.00
40200902	--	0.32	--	0.00
40200912	--	1.60	--	0.00
40200918	--	2.40	--	0.00
40100299	0.80	0.80	0.00	0.00
40299999	5.60	5.60	0.00	0.00
Total	6.40	44.32	0.00	0.00

==========

Facility ID: 19261007 Name: Texaco Oil Production
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20200202	--	69.60	--	170.40
40600141	--	0.32	--	0.00
40300102	--	2.40	--	0.00
40300104	--	0.96	--	0.00
31000203	--	0.24	--	0.00

31000202	--	52.80	--	0.00
31000207	--	2.40	--	0.00
31000208	--	7.20	--	0.00
31000209	--	26.40	--	0.00
30699999	184.80	--	0.00	--
40301010	7.20	--	0.00	--
Total	192.00	162.32	0.00	170.40

==========

Facility ID: 28233051 Name: Ampex Corp.
County: 19 SIC Code: 3679

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30199999	136.80	0.00	0.00	0.00
Total	136.80	0.00	0.00	0.00

==========

Facility ID: 28249008 Name: Los Angeles School District
County: 19 SIC Code: 5511

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200501	--	0.32	--	0.00
40200601	--	0.32	--	0.00
40200929	--	1.60	--	0.00
40299999	0.80	--	0.00	--
Total	0.80	2.24	0.00	0.00

==========

Facility ID: 28251021 Name: Fortin Laminating Corp.
County: 19 SIC Code: 3079

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40299999	40.80	0.00	4.80	4.80
40200901	--	126.10	--	0.00
40200902	--	540.80	--	0.00
40200908	--	130.00	--	0.00
40200918	--	11.70	--	0.00
Total	40.80	808.60	4.80	4.80

==========

Facility ID: 29226008 Name: Chevron USA
County: 19 SIC Code: 4582

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40300150	--	2.40	--	0.00
40400233	--	45.60	--	0.00
40400235	--	45.60	--	0.00
40400251	--	14.40	--	0.00
40399999	88.80	--	0.00	--
99999999	0.80	--	0.00	--
Total	89.60	108.00	0.00	0.00

==========

Facility ID: 30226011 Name: Trans World Airlines
County: 19 SIC Code: 2911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40400235	--	2.40	--	0.00
40400233	--	33.60	--	0.00
40400234	--	36.00	--	0.00
30699999	70.40	--	0.00	--
40600198	2.40	--	0.00	--
Total	72.80	72.00	0.00	0.00

==========

Facility ID: 30227005 Name: _____
County: 19 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10100602	2.40	2.40	64.80	64.60
Total	2.40	2.40	64.80	64.60

==========

Facility ID: 30248025 Name: Mobil Oil Corp.
County: 19 SIC Code: 5171

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40400235	--	0.00	--	0.00
40600198	11.70	0.00	0.00	0.00
40399999	79.20	--	0.00	--
Total	90.90	0.00	0.00	0.00

==========

Facility ID: 32227083 Name: Airport Iron Works
County: 19 SIC Code: 3441

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200601	--	10.40	--	0.00
40200920	--	12.80	--	0.00
40299999	8.00	--	0.00	--
Total	8.00	23.20	0.00	0.00

==========

Facility ID: 32228044 Name: Charles Caine Co.
County: 19 SIC Code: 3479

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100203	--	21.60	--	0.00
40200101	--	0.32	--	0.00
40200401	--	1.60	--	0.00
40200501	--	16.00	--	0.00
40200601	--	4.80	--	0.00
40200901	--	19.20	--	0.00
40200906	--	4.80	--	0.00
40200922	--	6.40	--	0.00
40299999	6.40	--	0.00	--
Total	6.40	74.72	0.00	0.00

==========

Facility ID: 32233034 Name: Thompson Golf Club
County: 19 SIC Code: 2499

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100202	--	2.40	--	0.00
40100204	--	2.40	--	0.00
40200401	--	2.40	--	0.00
40200901	--	1.20	--	0.00
40200902	--	1.20	--	0.00
40200918	--	0.36	--	0.00
40299999	1.20	--	0.00	--
Total	1.20	9.96	0.00	0.00

==========

Facility ID: 33220011 Name: Linde Div of Union Carbide
County: 19 SIC Code: 2869

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30199999	256.80	--	0.00	--
Total	256.80	--	0.00	--

==========

Facility ID: 34234034 Name: Union Oil Production
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200603	--	0.00	--	0.48
40400301	--	50.40	--	0.00
31000102	--	21.60	--	0.00
31000103	--	0.72	--	0.00
31000107	--	0.96	--	0.00
31000108	--	4.80	--	0.00
31000109	--	4.80	--	0.00
40200920	--	0.80	--	0.00
30699999	50.40	--	0.00	--
Total	50.40	84.08	0.00	0.48

==========

Facility ID: 35216012 Name: Velbon International
County: 19 SIC Code: 3679

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200501	--	5.60	--	0.00
40200901	--	16.00	--	0.00
40299999	1.60	--	0.00	--
Total	1.60	21.60	0.00	0.00

==========

Facility ID: 35225017 Name: Quality Hardware Mfg.
County: 19 SIC Code: 3471

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100202	--	23.20	--	0.00
40200501	--	1.60	--	0.00
40200901	--	2.40	--	0.00
40100299	34.40	--	0.00	--
40299999	1.60	--	0.00	--
Total	36.00	27.20	0.00	0.00

==========

Facility ID: 35233027 Name: Union Oil Production
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200604	--	0.00	--	0.48
40400301	--	146.40	--	0.00
40400302	--	0.96	--	0.00
31000107	--	0.48	--	0.00
31000108	--	9.60	--	0.00
31000109	--	4.80	--	0.00
31000199	--	50.40	--	0.00
40200920	--	0.80	--	0.00
30699999	50.40	--	0.00	--
Total	50.40	213.44	0.00	0.48

==========

Facility ID: 35233028 Name: Union Oil Production
County: 19 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10300604	--	0.48	--	0.00
31000142	--	2.40	--	0.00
40400302	--	0.72	--	0.00
40400301	--	2.40	--	0.00
31000107	--	0.96	--	0.00
31000108	--	4.80	--	0.00
31000109	--	4.80	--	0.00
40200920	--	0.80	--	0.00
30199999	45.60	--	0.00	--
30699999	43.20	--	0.00	--
Total	88.80	17.36	0.00	0.00

==========

Facility ID: 36232037 Name: Union Oil Production
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10300604	--	0.48	--	0.00
31000142	--	7.20	--	0.00
40400302	--	0.96	--	0.00
40400301	--	2.40	--	0.00
31000107	--	0.96	--	0.00
31000108	--	7.20	--	0.00
31000109	--	4.80	--	0.00
40200920	--	0.80	--	0.00
30199999	45.60	--	0.00	--
30699999	55.20	--	0.00	--
Total	100.80	24.80	0.00	0.00

==========

Facility ID: 37230035 Name: Robert M. Hadley
County: 19 SIC Code: 9999

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100202	--	5.00	--	0.00
40100203	--	0.30	--	0.00
40200902	--	3.00	--	0.00
40200912	--	1.00	--	0.00
40200918	--	1.00	--	0.00
40200929	--	5.00	--	0.00
40299999	21.60	1.00	0.00	0.00
33000199	7.20	--	0.00	--
40100205	2.70	--	0.00	--
Total	31.50	16.30	0.00	0.00

==========

Facility ID: 37242060 Name: MAPO, Walt Disney Corp.
County: 19 SIC Code: 3079

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100302	--	7.20	--	0.00
40200902	--	1.80	--	0.00
40200918	--	1.80	--	0.00
40200920	--	3.60	--	0.00
49099999	--	7.20	--	0.00
40299999	4.20	--	0.00	--
Total	4.20	21.60	0.00	0.00

==========

Facility ID: 38214031 Name: Chevron Chemical
County: 19 SIC Code: 2992

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30199999	4.80	--	0.00	--
30699999	535.20	--	0.00	--
Total	540.00	--	0.00	--

==========

Facility ID: 38214054 Name: Continental Oil Co.
County: 19 SIC Code: 4613

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40301010	12.00	--	0.00	--
40399999	33.60	--	0.00	--
Total	45.60	--	0.00	--

==========

Facility ID: 39218017 Name: Good Tables Inc.
County: 19 SIC Code: 2511

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40299999	8.80	--	0.00	--
Total	8.80	--	0.00	--

==========

Facility ID: 40214007 Name: Dow Chemical Co.
County: 19 SIC Code: 5171

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40400121	--	33.60	--	0.00
30199999	33.60	--	0.00	--
Total	33.60	33.60	0.00	0.00

==========

Facility ID: 40227027 Name: Grating Pacific Inc.
County: 19 SIC Code: 3443

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200601	--	4.80	--	0.00
40200901	--	8.00	--	0.00
40299999	4.00	--	0.00	--
Total	4.00	12.80	0.00	0.00

==========

Facility ID: 40228032 Name: Grigg Specialty Tools
County: 19 SIC Code: 3444

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200501	--	2.40	--	0.00
40200912	--	8.80	--	0.00
40200918	--	14.40	--	0.00
40299999	21.60	--	0.00	--
Total	21.60	25.60	0.00	0.00

==========

Facility ID: 40230032 Name: Aircraft X-Ray Labs
County: 19 SIC Code: 3479

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100202	--	15.30	--	0.00
40200401	--	0.68	--	0.00
40200501	--	3.40	--	0.00
40200601	--	11.90	--	0.00
40200701	--	0.34	--	0.00
40200901	--	8.50	--	0.00
40200902	--	1.70	--	0.00
40200918	--	10.20	--	0.00
40200922	--	1.70	--	0.00
40100299	24.00	--	0.00	--
40299999	0.80	--	0.00	--
Total	24.80	53.72	0.00	0.00

==========

Facility ID: 40231113 Name: Kelvin International
County: 19 SIC Code: 2753

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200901	--	0.60	--	0.60
40299999	1.80	--	0.60	--
Total	1.80	0.60	0.60	0.60

==========

Facility ID: 40234043 Name: Zinsco Electrical Products
County: 19 SIC Code: 3679

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100307	--	1.60	--	0.00
40200501	--	12.00	--	0.00
40200601	--	8.00	--	0.00
40200924	--	1.60	--	0.00
40299999	3.10	--	0.00	--
Total	3.10	23.20	0.00	0.00

==========

Facility ID: 41213802 Name: Powerine Oil (Parcel A)
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	--	326.40	--	148.80
40100201	--	4.00	--	0.00
40200501	--	0.32	--	0.00
40200601	--	0.32	--	0.00
40200901	--	0.80	--	0.00
40400399	--	52.80	--	0.00
30199999	52.80	--	0.00	--
Total	52.80	384.64	0.00	148.80

==========

Facility ID: 41221022 Name: Tri-Co Products
County: 19 SIC Code: 3443

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200210	--	27.20	--	0.00
40200501	--	24.00	--	0.00

40200920	--	27.20	--	0.00
30203299	3.20	--	0.00	--
40299999	32.00	--	0.00	--
Total	35.20	78.40	0.00	0.00

==========

Facility ID: 41230107 Name: Frank Smith Stationary
County: 19 SIC Code: 2753

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40299999	0.00	0.24	4.80	4.80
Total	0.00	0.24	4.80	4.80

==========

Facility ID: 42213009 Name: NAMOLCO
County: 19 SIC Code: 2041

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40400121	--	0.96	--	0.00
40400122	--	4.80	--	0.00
40400123	--	0.96	--	0.00
40400124	--	0.96	--	0.00
40400125	--	7.20	--	0.00
40400126	--	2.40	--	0.00
40400127	--	0.96	--	0.00
40400128	--	0.96	--	0.00
40400129	--	0.96	--	0.00
40400130	--	0.96	--	0.00
40400131	--	0.96	--	0.00
40400132	--	0.96	--	0.00
40600199	--	21.60	--	0.00
30199999	45.60	--	0.00	--
Total	45.60	44.64	0.00	0.00

==========

Facility ID: 42224021 Name: Custom Rack Inc.
County: 19 SIC Code: 9999

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
39000699	--	0.00	--	0.32
40100302	--	39.20	--	0.00

40200111	--	34.40	--	0.00
40200601	--	2.40	--	0.00
40200901	--	12.00	--	0.00
30199999	69.60	--	0.80	--
Total	69.60	88.00	0.80	0.32

==========

Facility ID: 44217058 Name: Petrolane-Lomita Gas Co.
County: 19 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
20200202	--	57.60	--	141.60
31000202	--	7.20	--	0.00
31000207	--	0.48	--	0.00
31000208	--	4.80	--	0.00
31000209	--	4.80	--	0.00
30699999	96.00	--	67.20	--
Total	96.00	74.88	67.20	141.60

==========

Facility ID: 44217078 Name: ECO Petroleum
County: 19 SIC Code: 2911

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30600104	2.40	2.40	26.40	26.40
40300102	--	0.24	--	0.00
40301010	16.80	8.40	0.00	0.00
40300104	--	2.40	--	0.00
40300122	--	0.24	--	0.00
40300167	--	2.40	--	0.00
30600801	--	16.80	--	0.00
30600806	--	4.80	--	0.00
40399999	60.00	4.86	0.00	0.00
30699999	16.80	--	0.00	--
Total	96.00	42.54	26.40	26.40

==========

Facility ID: 44221037 Name: Continental Oil Co.
County: 19 SIC Code: 4613

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40399999	494.40	--	0.00	--
Total	494.40	--	0.00	--

==========

Facility ID: 44221085 Name: Continental Oil Co.
County: 19 SIC Code: 4613

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30699999	36.00	--	0.00	--
40399999	24.00	--	0.00	--
Total	60.00	--	0.00	--

==========

Facility ID: 44223072 Name: Anaplex Corp.
County: 19 SIC Code: 3479

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100208	--	13.60	--	0.00
40299999	0.80	2.40	0.00	0.00
40100299	41.60	--	0.00	--
Total	42.40	16.00	0.00	0.00

==========

Facility ID: 44229044 Name: McCloskey Varnish Co.
County: 19 SIC Code: 2821

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30101511	--	65.60	--	28.00
30199999	76.40	4.00	28.80	0.00
40300474	--	0.32	--	0.00
Total	76.40	69.92	28.80	28.00

==========

Facility ID: 45219006 Name: Chevron USA
County: 19 SIC Code: 5171

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000107	--	2.40	--	0.00
40400233	--	16.80	--	0.00

40400235	--	16.80	--	0.00
40399999	33.60	--	0.00	--
Total	33.60	36.00	0.00	0.00

==========

Facility ID: 46231057 Name: EKCO-GLACO
County: 19 SIC Code: 3079

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100202	--	3.00	--	0.00
40200201	--	0.32	--	0.00
40200901	--	87.20	--	0.00
40200906	--	8.80	--	0.00
40200914	--	53.60	--	0.00
40200918	--	0.80	--	0.00
40200921	--	22.40	--	0.00
40200922	--	8.80	--	0.00
40200931	--	78.40	--	0.00
40299999	12.60	--	0.00	--
Total	12.60	263.32	0.00	0.00

==========

Facility ID: 49241035 Name: California Flame Proofing
County: 19 SIC Code: 2262

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200901	--	60.80	--	0.00
40200922	--	0.32	--	0.00
40299999	76.00	--	0.00	--
Total	76.00	61.12	0.00	0.00

==========

Facility ID: 50227096 Name: McKesson Chemical
County: 19 SIC Code: 2819

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30199999	37.80	0.00	0.00	0.00
30699999	2.20	0.00	0.00	0.00
Total	40.00	0.00	0.00	0.00

==========

Facility ID: 50232001 Name: Texaco Montebello Research Lab
County: 19 SIC Code: 2869

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30199999	33.60	33.60	0.00	0.00
30699999	0.00	0.00	2.40	2.40
40100202	--	4.80	--	0.00
40200301	--	0.24	--	0.00
40200501	--	0.24	--	0.00
40200901	--	2.40	--	0.00
40200902	--	0.96	--	0.00
40200920	--	0.96	--	0.00
40200921	--	2.40	--	0.00
20200202	--	38.40	--	93.60
Total	33.60	84.00	2.40	96.00

==========

Facility ID: 51234079 Name: Cal Dec Inc
County: 19 SIC Code: 2753

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200901	--	0.32	--	0.00
40299999	1.60	--	0.00	--
Total	1.60	0.32	0.00	0.00

==========

Facility ID: 52222048 Name: Molinas Sheet Metal
County: 19 SIC Code: 3479

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200501	--	0.36	--	0.00
40200901	--	1.20	--	0.00
40299999	0.60	--	0.00	--
Total	0.60	1.56	0.00	0.00

==========

Facility ID: 54232026 Name: Western Gear Corp.
County: 19 SIC Code: 3444

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100203	--	226.10	--	0.00
40200101	--	0.68	--	0.00
40200301	--	0.34	--	0.00
40200401	--	1.02	--	0.00
40200501	--	0.34	--	0.00
40200601	--	1.70	--	0.00
40200901	--	1.02	--	0.00
40200902	--	10.20	--	0.00
40200912	--	0.34	--	0.00
40200914	--	11.90	--	0.00
40200917	--	28.90	--	0.00
40200918	--	10.20	--	0.00
40200921	--	42.50	--	0.00
40100299	47.20	--	0.00	--
40299999	14.40	--	0.00	--
Total	61.60	335.24	0.00	0.00

==========

Facility ID: 59230005 Name: Purex Pool Products
County: 19 SIC Code: 3479

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100203	--	122.40	--	0.00
40100302	--	0.80	--	0.00
40200401	--	6.40	--	0.00
40200501	--	47.20	--	0.00
40200601	--	0.80	--	0.00
40200901	--	8.00	--	0.00
40200914	--	3.20	--	0.00
40200918	--	4.00	--	0.00
40100299	13.80	--	0.00	--
40299999	4.00	--	0.00	--
Total	17.80	192.80	0.00	0.00

==========

Facility ID: 59230026 Name: Ramco Industries
County: 19 SIC Code: 3031

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200928	--	48.80	--	0.00
30199999	48.80	--	0.00	--
Total	48.80	48.80	0.00	0.00

==========

Facility ID: 65235022 Name: Composites Horizons
County: 19 SIC Code: 9999

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100302	--	0.32	--	0.00
40200601	--	0.32	--	0.00
40200901	--	0.80	--	0.00
40200902	--	0.80	--	0.00
40200917	--	0.80	--	0.00
40200918	--	0.80	--	0.00
40299999	3.20	--	0.00	--
Total	3.20	3.84	0.00	0.00

==========

Facility ID: 66235002 Name: Calsol Inc.
County: 19 SIC Code: 2842

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40700201	--	0.80	--	0.00
40700202	--	0.80	--	0.00
40300129	--	0.24	--	0.00
40300174	--	0.24	--	0.00
40300130	--	0.48	--	0.00
40300175	--	0.48	--	0.00
40700151	--	2.40	--	0.00
30199999	36.80	--	0.00	--
Total	36.80	5.44	0.00	0.00

==========

Facility ID: 23 Name: _____
County: 30 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20100101	2.40	2.40	33.60	33.60
20100201	2.40	2.40	12.00	12.00
40301197	72.00	72.00	0.00	0.00
40301299	2.40	2.40	0.00	0.00
10100401	600.00	599.80	9703.20	9702.97
10100601	196.80	197.40	3662.40	3662.39
Total	876.00	876.40	13411.20	13410.97

==========

Facility ID: 30 Name: U.S. Polymeric
County: 30 SIC Code: 2821

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
39000699	0.00	0.00	3.60	3.60
40200902	--	102.40	--	0.00
40200910	--	360.80	--	0.00
40200918	--	111.20	--	0.00
40200927	--	77.60	--	0.00
30101899	374.40	--	0.00	--
40400199	135.20	--	0.00	--
49099999	138.40	--	0.00	--
Total	648.00	652.00	3.60	3.60

==========

Facility ID: 32 Name: Steelcase West
County: 30 SIC Code: 2522

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
39000699	12.80	11.38	347.20	347.20
39001099	--	0.80	--	0.00
40200501	356.80	493.60	0.00	0.00
40200701	204.80	302.40	0.00	0.00
40100202	--	8.00	--	0.00
40200918	--	46.40	--	0.00
40200901	--	116.80	--	0.00
40200499	83.20	--	0.00	--
40200599	156.00	--	0.00	--
40200799	62.40	--	0.00	--
40200802	21.60	--	0.00	--
40200803	11.20	--	0.00	--
Total	908.80	979.38	347.20	347.20

==========

Facility ID: 188 Name: Central Plants
County: 30 SIC Code: 3585

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10300402	0.00	0.00	2.40	2.40
10300602	0.00	0.00	12.00	12.00
20200202	67.20	67.20	48.00	182.40
Total	67.20	67.20	62.40	196.80

==========

Facility ID: 196 Name: Bentley Labs, Inc.
County: 30 SIC Code: 3841

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30102499	3.20	3.20	0.00	0.00
39000699	0.00	0.00	2.40	2.40
40100199	14.40	14.40	0.00	0.00
40100299	849.40	849.40	0.00	0.00
40100207	--	1644.00	--	0.00
40200901	--	14.40	--	0.00
40200912	--	11.20	--	0.00
40200921	--	40.00	--	0.00
40200933	--	59.20	--	0.00
40200802	11.20	--	0.00	--
Total	878.20	2635.80	2.40	2.40

==========

Facility ID: 204 Name: Central Plants
County: 30 SIC Code: 3585

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200402	0.00	0.00	2.40	2.40
10200502	0.00	0.00	9.60	9.60
10200602	0.00	0.00	33.60	33.60
20200101	0.00	0.00	7.20	7.20
20200201	14.40	14.40	148.80	148.80
20200202	259.20	259.20	177.60	672.00
Total	273.60	273.60	379.20	873.60

==========

Facility ID: 277 Name: Kaynar Mfg.
County: 30 SIC Code: 3429

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200603	0.00	3.40	14.40	12.92
40100203	--	127.50	--	0.00
40200901	--	73.10	--	0.00
40200803	139.20	139.20	0.00	0.00
40200902	--	3.40	--	0.00
40200912	--	5.10	--	0.00
40200918	--	10.20	--	0.00
40200921	--	93.50	--	0.00
40200930	--	30.60	--	0.00
40100202	124.20	--	0.00	--
40200399	65.60	--	0.00	--
Total	329.00	486.00	14.40	12.92

==========

Facility ID: 310 Name: Erickson Yachts
County: 30 SIC Code: 3732

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40202601	--	76.80	--	0.00
40202602	--	29.60	--	0.00
40200902	--	340.00	--	0.00
40200301	343.20	--	0.00	--
40399999	50.40	--	0.00	--
Total	393.60	446.40	0.00	0.00

==========

Facility ID: 539 Name: SCE - Cypress
County: 30 SIC Code: 4613

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30600103	0.00	0.24	2.40	5.60
30600104	0.00	2.40	19.20	46.22
40300124	--	9.60	--	0.00
40300169	--	9.60	--	0.00
40300121	--	40.80	--	0.00
40300166	--	7.20	--	0.00
40200501	--	0.32	--	0.00
40200601	--	0.32	--	0.00
40200920	--	0.80	--	0.00
40388801	1715.20	1715.20	0.00	0.00
10399997	0.00	--	16.80	--
10399998	0.00	--	2.40	--
Total	1715.20	1786.48	40.80	51.82

Facility ID: 1962 Name: Panel Concepts
County: 30 SIC Code: 3079

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200701	--	40.00	--	0.00
40200901	--	1.60	--	0.00
40200710	54.40	--	0.00	--
Total	54.40	41.60	0.00	0.00

Facility ID: 100104 Name: Brea Olinda Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	554.40	--	0.00
Total	--	554.40	--	0.00

Facility ID: 100201 Name: Belmont oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	252.00	--	0.00
AAA46425	211.20	--	0.00	--
AAA46441	69.60	--	0.00	--
Total	280.80	252.00	0.00	0.00

Facility ID: 100202 Name: Brea Olinda Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31000101	--	2894.40	--	0.00
31000104	--	1387.20	--	0.00
31000107	--	14.40	--	0.00
31000108	--	187.20	--	0.00
31000121	--	31.20	--	0.00
31000122	--	729.60	--	0.00

31000131	--	16.80	--	0.00
40400301	--	136.80	--	0.00
40400302	--	21.60	--	0.00
AAA46425	316.80	--	0.00	--
AAA46441	456.00	--	0.00	--
Total	772.80	5419.20	0.00	0.00

==========

Facility ID: 100203 Name: Coyote, East Oil Field
County: 30 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	976.80	--	0.00
AAA46425	88.80	--	0.00	--
AAA46441	40.80	--	0.00	--
Total	129.60	976.80	0.00	0.00

==========

Facility ID: 100204 Name: Coyote, West Oil Field
County: 30 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000101	--	31.20	--	0.00
31000104	--	16.80	--	0.00
31000121	--	2.40	--	0.00
31000122	--	312.00	--	0.00
40400301	--	7.20	--	0.00
40400302	--	2.40	--	0.00
AAA46425	146.40	--	0.00	--
AAA46441	33.60	--	0.00	--
Total	180.00	372.00	0.00	0.00

==========

Facility ID: 100205 Name: Esperanza Oil Field
County: 30 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	153.60	--	0.00
AAA46425	2.40	--	0.00	--
Total	2.40	153.60	0.00	0.00

==========

Facility ID: 100206 Name: Newport West Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	1020.00	--	0.00
AAA46425	21.60	--	0.00	--
AAA46441	4.80	--	0.00	--
Total	26.40	1020.00	0.00	0.00

==========

Facility ID: 100207 Name: Olive Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	88.80	--	0.00
AAA46425	4.80	--	0.00	--
Total	4.80	88.80	0.00	0.00

==========

Facility ID: 100208 Name: Richfield Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31000101	--	561.60	--	0.00
31000104	--	232.80	--	0.00
31000107	--	2.40	--	0.00
31000108	--	26.40	--	0.00
31000111	--	0.24	--	0.00
31000121	--	33.60	--	0.00
31000122	--	573.60	--	0.00
31000131	--	0.48	--	0.00
40400301	--	264.00	--	0.00
40400302	--	21.60	--	0.00
AAA46425	216.00	--	0.00	--
AAA46441	21.60	--	0.00	--
Total	237.60	1716.72	0.00	0.00

==========

Facility ID: 100209 Name: Seal Beach Oil Field
County: 30 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	475.20	--	0.00
AAA46425	38.40	--	0.00	--
AAA46441	36.00	--	0.00	--
Total	74.40	475.20	0.00	0.00

==========

Facility ID: 100210 Name: Sunset Beach Oil Field
County: 30 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31088801	--	55.20	--	0.00
AAA46425	2.40	--	0.00	--
Total	2.40	55.20	0.00	0.00

==========

Facility ID: 100211 Name: Yorba Linda Oil Field
County: 30 SIC Code: 1311

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
31000101	--	247.20	--	0.00
31000104	--	110.40	--	0.00
31000107	--	1.20	--	0.00
31000111	--	0.48	--	0.00
31000121	--	19.20	--	0.00
31000122	--	1068.00	--	0.00
40400301	--	129.60	--	0.00
40400302	--	84.00	--	0.00
AAA46433	24554.40	--	0.00	--
AAA46441	2.40	--	0.00	--
Total	24556.80	1660.08	0.00	0.00

==========

Facility ID: 100212 Name: Huntington Beach Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31000101	--	4310.40	--	0.00
31000104	--	1965.60	--	0.00
31000107	--	24.00	--	0.00
31000108	--	244.80	--	0.00
31000111	--	0.24	--	0.00
31000121	--	81.60	--	0.00
31000122	--	1243.20	--	0.00
31000131	--	19.20	--	0.00
40400301	--	573.60	--	0.00
40400302	--	55.20	--	0.00
AAA46425	1291.20	--	0.00	--
AAA46433	86.40	--	0.00	--
AAA46441	547.20	--	0.00	--
Total	1924.80	8517.83	0.00	0.00

==========

Facility ID: 100213 Name: Kraemer Oil Field
County: 30 SIC Code: 1311

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
31088801	--	52.80	--	0.00
Total	--	52.80	--	0.00

==========

Facility ID: 51212013 Name: Engard Coatings
County: 30 SIC Code: 2851

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30101401	--	25.60	--	0.00
30199999	111.20	--	0.00	--
Total	111.20	25.60	0.00	0.00

==========

Facility ID: 56218011 Name: Taylor-Dunn Mfg.
County: 30 SIC Code: 3711

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200201	--	1.60	--	0.00
40200401	--	20.80	--	0.00
40200501	--	31.20	--	0.00

40200601	--	16.00	--	0.00
40200901	--	84.80	--	0.00
40299999	4.00	--	0.00	--
Total	4.00	154.40	0.00	0.00

==========

Facility ID: 58208027 Name: Styles Inc.
County: 30 SIC Code: 3131

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200201	--	1.60	--	0.00
40200401	--	5.60	--	0.00
40200601	--	4.00	--	0.00
40200701	--	10.40	--	0.00
40200901	--	4.80	--	0.00
40299999	6.40	--	0.00	--
Total	6.40	26.40	0.00	0.00

==========

Facility ID: 58211023 Name: BAF Industries
County: 30 SIC Code: 2834

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30199999	65.80	65.80	0.00	0.00
30125901	--	51.10	--	0.00
30125902	--	6.30	--	0.00
Total	65.80	123.20	0.00	0.00

==========

Facility ID: 58220011 Name: Stepan Chemical Co.
County: 30 SIC Code: 2841

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
10200602	0.00	0.00	2.40	2.40
30125025	--	210.40	--	0.00
30199999	210.40	--	0.00	--
Total	210.40	210.40	2.40	2.40

==========

Facility ID: 58220015 Name: Inmont Corp.
County: 30 SIC Code: 2821

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
30101499	--	107.20	--	0.00
30101401	--	265.60	--	0.00
30101402	--	30.00	--	0.00
30101403	--	4.80	--	129.60
30199999	402.60	--	129.60	--
Total	402.60	407.60	129.60	129.60

==========

Facility ID: 59225014 Name: Spring Crest Co.
County: 30 SIC Code: 5199

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200401	--	18.40	--	0.00
40200601	--	16.00	--	0.00
40200901	--	3.20	--	0.00
40200902	--	1.60	--	0.00
40299999	38.40	--	0.00	--
Total	38.40	39.20	0.00	0.00

==========

Facility ID: 60217001 Name: Neville Chemical Co
County: 30 SIC Code: 2821

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200602	2.40	2.40	55.20	55.20
30101862	--	50.40	--	0.00
30101899	--	72.00	--	0.00
30600104	2.40	2.40	28.80	28.80
40200901	--	26.40	--	0.00
30199999	72.00	--	0.00	--
Total	76.80	153.60	84.00	84.00

==========

Facility ID: 61217001 Name: West American Rubber
County: 30 SIC Code: 3011

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200604	--	0.44	--	15.40
10200405	--	0.00	--	4.40

30800601	--	631.20	--	0.00
40200401	--	10.40	--	0.00
40200601	--	1.60	--	0.00
40200701	--	2.40	--	0.00
40200907	--	2.40	--	0.00
40200918	--	16.00	--	0.00
40200922	--	8.00	--	0.00
10200602	0.00	--	19.80	--
30199999	631.20	--	0.00	--
40100299	65.60	--	0.00	--
40299999	5.60	--	0.00	--
Total	702.40	672.44	19.80	19.80

Facility ID: 61219014 Name: Millers Fab and Weld
County: 30 SIC Code: 3499

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40200501	--	0.80	--	0.00
40200601	--	2.40	--	0.00
40200901	--	3.20	--	0.00
40200920	--	1.60	--	0.00
40200921	--	0.80	--	0.00
40299999	1.60	--	0.00	--
Total	1.60	8.80	0.00	0.00

Facility ID: 62209006 Name: Bentley Laboratories
County: 30 SIC Code: 3079

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30199999	284.80	--	0.00	--
40100103	27.20	--	0.00	--
40100299	49.40	--	0.00	--
40299999	3.20	--	0.00	--
Total	364.60	--	0.00	--

Facility ID: 62209049 Name: Sterling Electric, Inc.
County: 30 SIC Code: 3679

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100299	--	7.20	--	0.00
40200902	--	6.40	--	0.00
40200906	--	7.20	--	0.00
40200901	--	16.80	--	0.00
40200301	--	11.20	--	0.00
39000699	--	0.80	--	20.80
40299999	31.20	--	0.00	--
Total	31.20	49.60	0.00	20.80

==========

Facility ID: 63221021 Name: Micrometals Inc
County: 30 SIC Code: 3399

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40100202	--	0.80	--	0.00
40200101	--	2.40	--	0.00
40200301	--	0.80	--	0.00
40200901	--	1.60	--	0.00
40200902	--	41.60	--	0.00
30199999	50.40	--	0.00	--
Total	50.40	47.20	0.00	0.00

==========

Facility ID: 64210006 Name: Tabin Steel Co.
County: 30 SIC Code: 3441

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200601	--	7.20	--	0.00
Total	--	7.20	--	0.00

==========

Facility ID: 77223008 Name: American Metal Products
County: 33 SIC Code: 3471

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200602	0.00	0.00	1.60	1.60
40200501	--	12.00	--	0.00
40200601	--	5.60	--	0.00
40200901	--	28.00	--	0.00
40100103	34.40	--	0.00	--
40299999	0.60	--	0.00	--
Total	35.00	45.60	1.60	1.60

==========

Facility ID: 112213028 Name: Reliable Marble
County: 33 SIC Code: 3079

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40200902	--	1.60	--	0.00
40299999	2.40	--	0.00	--
Total	2.40	1.60	0.00	0.00

==========

Facility ID: 24 Name:
County: 36 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40300107	57.60	57.60	0.00	0.00
40300152	2.40	2.40	0.00	0.00
10100501	57.60	58.00	669.60	669.70
10100601	69.60	69.30	1000.80	1000.50
Total	187.20	187.30	1670.40	1670.20

==========

Facility ID: 27 Name:
County: 36 SIC Code: 4911

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
20400101	76.80	76.80	52.80	52.80
40300107	93.60	93.60	0.00	0.00
40300152	2.40	2.40	0.00	0.00
10100501	18.00	17.50	463.80	464.20
10100601	27.00	26.20	626.40	626.60
Total	217.80	216.50	1143.00	1143.60

==========

40301099	249.60	--	0.00	--
40301112	4.80	--	0.00	--
40301197	19.20	--	0.00	--
40301199	9.60	--	0.00	--
40400114	33.60	--	0.00	--
40400117	14.40	--	0.00	--
Total	350.40	70.56	0.00	0.00

==========

Facility ID: 72235024 Name: R. George Industries
County: 36 SIC Code: 3479

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40100203	--	6.40	--	0.00
40200201	--	0.80	--	0.00
40200401	--	0.80	--	0.00
40200501	--	4.80	--	0.00
40200901	--	4.00	--	0.00
40200921	--	0.80	--	0.00
40200922	--	2.40	--	0.00
40100299	2.40	--	0.00	--
40299999	0.80	--	0.00	--
Total	3.20	20.00	0.00	0.00

==========

Facility ID: 82237002 Name: Koppers Co, Inc
County: 36 SIC Code: 2819

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
30101405	--	126.80	--	31.10
30199999	47.60	--	31.10	--
30699999	79.20	--	0.00	--
Total	126.80	126.80	31.10	31.10

==========

Facility ID: 85237021 Name: Prices Autobody Shop
County: 36 SIC Code: 5199

	TOG (kg/day)		NOX	
SCC	Before	After	Before	After
40299999	4.00	0.36	0.00	0.00
Total	4.00	0.36	0.00	0.00

==========

Facility ID: 89234009 Name: Mobil Oil Corp.
County: 36 SIC Code: 4613

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40600141	--	9.60	--	0.00
40600130	--	0.00	--	0.00
40400285	--	4.80	--	0.00
40400251	--	2.40	--	0.00
30599999	33.60	--	0.00	--
40399999	45.60	--	0.00	--
Total	79.20	16.80	0.00	0.00

==========

Facility ID: 89235800 Name: Union Oil
County: 36 SIC Code: 5171

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
40399999	204.00	--	0.00	--
Total	204.00	--	0.00	--

==========

Facility ID: 91234004 Name: U.S.S. Chemicals
County: 36 SIC Code: 2851

SCC	TOG (kg/day) Before	TOG (kg/day) After	NOX Before	NOX After
10200604	--	0.24	--	9.60
30102402	--	16.80	--	0.00
40100302	--	0.72	--	0.00
40200917	--	0.24	--	0.00
40200918	--	9.60	--	0.00
30199999	74.40	--	19.20	--
Total	74.40	27.60	19.20	9.60