



Transmittal Sheet

Documents

- BAAQMD Permit Application: FORMER BAY STREET **TEXACO** STATION, 1127 LINCOLN AVE.. ALAMEDA

CALIFORNIA

- BAAQMD Permit Application: FORMER TEXACO SERVICE STATION, 2375 SHORELINE DR., ALAMEDA, CALIFORNIA

Original Sent To

Mr. Robert E. Cave

Bay Area Air Quality Management District

939 Ellis Street

San Francisco, California 94109

Copies Sent To

- Mr. Robert Robles, Texaco Environmental Services

- California Regional Water Quality Control Board - San

Francisco Bay Region

- Alameda County Health Care Services Agency - Hazardous

Materials Division

Format (Final/Draft)

Final

From

Michael Hodges/CEECON

TES Project Number

TRR222

CEECON Project Number 115-1006

Via

U.S. Priority Mail

Date

January 11, 1993





January 11, 1993

Mr. Robert E. Cave
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109

Subject:

Application for an Authority to Construct/Permit to Operate An Interim Soil

and Groundwater Remediation System at the Former Texaco Service Station, 2375 Shoreline Drive, Alameda, California. & Part of South Share. Shappy

Mr. Cave:

California Environmental Engineers & Contractors (CEECON) has prepared this permit application for an Authority to Construct/Permit to Operate on behalf of Texaco Environmental Services (TES). Prior sub-surface environmental investigations indicate that soil underlying this site contains residual gasoline hydrocarbons, and that dissolved hydrocarbons are present in ground water. An interim soil and groundwater remediation system will be installed at this site. This permit application has been prepared in accordance the Bay Area Air Quality Management District (BAAQMD) Soil Vapor Extraction guidelines; appropriate BAAQMD Data Forms are attached. The location of the site is shown on the attached Vicinity Map. A layout of the area surrounding this site is shown on AM-1.

SYSTEM DESIGN

CEECON will be utilizing a modular approach to remediation at this site. A trailer-mounted groundwater treatment system, including water filters, an aeration system, a water hardness chemical injector, and activated carbon polishing is proposed for this site. Instrumentation and controls on this system include water level indicators, transfer pumps, flow indicator, flow totalizer, and sample ports. The system is trailer-mounted and is provided with double-containment for all water and chemical storage drums. An approximate layout of this trailer-mounted system is shown on the attached GTS-1. A process flow diagram of this system, along with the compressor and groundwater extraction pump, is shown on the attached GTS-2.

Hydrocarbon concentrations in extracted vapor at this site are expected to decrease substantially in the first few months of operation. CEECON will use a six-cylinder internal combustion (I.C.) engine for the first several days of system operation. The layout of this trailer mounted I.C. engine is shown on the attached VET-1. A process flow diagram of this I.C. engine is shown on the attached VET-2.

The groundwater remediation trailer and the I.C. engine will both be located in a remediation compound about the size of one parking space at this site. An approximate system layout is shown on RCL-1. The vapor-abatement portion of the remediation system will be converted to use activated carbon after the I.C. engine is removed from the site. The remediation compound layout with this configuration is shown on RCL-2.

EXTRACTION RATES

CEECON will assume a 100 percent removal rate of hydrocarbons removed from extracted groundwater at the GTS for the most conservative estimate of hydrocarbon concentrations influent to the abatement equipment. The maximum groundwater extraction rate is expected to be 1.0 gallon per minute. These removal rates are calculated as follows:

TPHg-Removal Rates

The maximum initial TPHg concentration is 540 parts per billion (ppb). The approximate initial TPHg mass removal rate from the GTS is as follows:

Benzene-Removal Rates

The maximum initial benzene concentration is 58 ppb. The approximate initial benzene mass removal rate from the GTS is as follows:

= 0 00061bs benzene day Field monitoring of extracted hydrocarbon-bearing vapor show the highest concentrations at less than 100 parts per million by volume (ppmv). The *initial* mass extraction rate for TPHg is calculated as follows:

The *initial* mass extraction rate for benzene is calculated as follows:

It is anticipated that substantial reductions in inlet concentrations will be seen after a few days of system operation. The I.C. engine will be used as a short-term abatement device only. Recent analysis of effluent samples from this I.C. engine indicate a benzene and TPHg destruction efficiency of over 99 percent. Recent Source Test Data from another site using this same internal combustion engine is attached. As the rate of hydrocarbon flow in the vapor from the GTS is very small in comparison to the extracted soil vapor, only the soil vapor removal rate will be used for performing emission calculations. As a further conservative estimate, a 98 percent destruction efficiency will be used for emission calculations.

EMISSION RATES

The maximum TPHg emission rate is calculated as follows:

```
4 lbs TPHg/day \times 0.02\% = 0.08 lbs TPHg/day
```

The maximum benzene emission rate is calculated as follows:

```
0.5 \text{ lbs benzene/day } \times 0.02 \% = 0.0103 \text{ lbs/day}
```

Please note that these are the maximum expected emission rates for the interim soil and groundwater remediation equipment to be operated at this site. Substantial reductions from initial concentrations are typically seen in the first several weeks of system operation.

Permit fees have been calculated as follows:

Filing Fee (S-1)	\$165.00
Initial Fee (S-1)	115.00
TAC Surcharge (S-1)	115.00
Filing Fee (S-2)	165.00
Initial Fee (S-2)	115.00
TAC Surcharge (S-2)	<u>115.00</u>
Total Fee	\$790.00

Please call if you have any questions regarding this permit application.

Sincerely, CEECON

Michael Hodges

President/ Engineering Manager

Attachment:

Vicinity Map

AM-1, Area Map

GTS-1, Trailer Mounted Groundwater Treatment System "S-1"

GTS-2, Groundwater Extraction and Treatment System Process Diagram, "S-2"

VET-1, Vapor-Extraction Internal Combustion Engine, "A-1"

VET-2, Internal Combustion Engine Process Diagram, "A-2"

RCL-1, Initial Remediation Compound Layout

RCL-2, Long-Term Remediation Compound Layout

DATA FORM G for C-1,000, "S-2"

DATA FORM G for GTS-10, "S-1"

DATA FORM A for C-1,000, "A-1"

DATA FORM C for C-1,000, "S-2"

DATA FORM A for Vapor-Phase Activated Carbon, "A-2"

DATA FORM P for C-1,000, "P-1"

DATA FORM P for Vapor-Phase Activated Carbon, "P-2"

FORM P-101B

Risk Screening Analysis Data Forms (4 pages)

Chain of Custody and Results of Laboratory Analysis of Vapor Samples

cc: Mr. Robert Robles, Texaco Environmental Services
California Regional Water Quality Control Board, San Francisco Bay Region
Alameda Health Care Services Agency, Hazardous Materials Division

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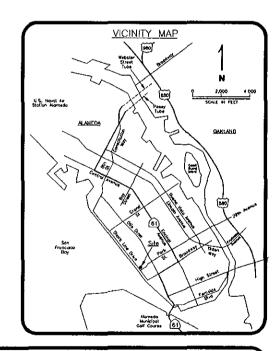
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INDEX OF DRAWINGS

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DWG NO	DESCRIPTION	REV,	DATE
T-1	COVER SHITET		19/1/92
T-2	REMEDIATION WELLHEAD AND TRENCH LAYOUT		10/1/92
1-3	WEILHEAD CONNECTIONS		10/1/92
T-4	PROCESS AND INSTRUMENTATION DIAGRAM		10/1/92
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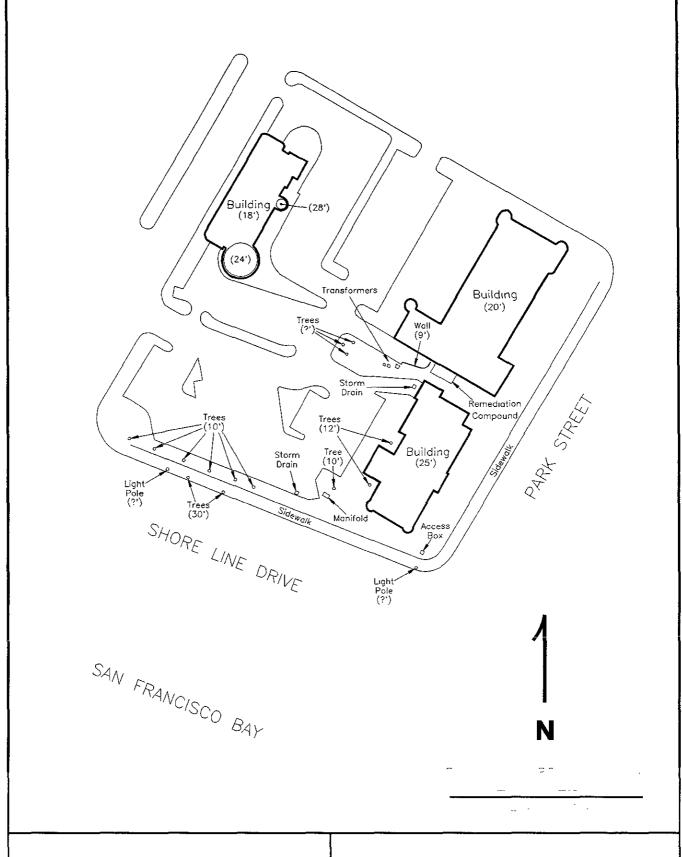
THE CONTRACTORS

WENTAL ENGINEERS & CONTRACTORS

Proposed Construction at: FORMER TEXACO SERVICE STATION 2375 SHORELINE DRIVE ALAMEDA, CALIFORNIA



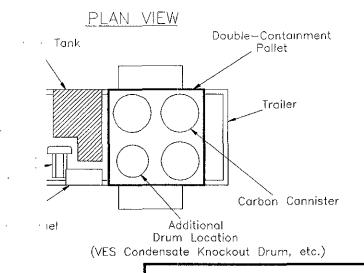
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CEEC § N

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SIDE VIEW Control Panel Carbon Cannister Curbon Cannister



Instrumentation Readouts

Flow Meter Flow Totalizer Inlet High Pressure Switch Inlet High—High Pressure Switch Aeration Tank High—High Level Switch Activated Carbon High Pressure Switch

Sample Ports

Influent (Between Aeration Tank And First Carbon Cannister) Effluent (Between Carbon Cannisters) Easy Disconnects At Carbon Cannisters

----- Grade

Remote Signal Capabilities

Water Flow Total Water Flow On/Off Status

CALIFORNIA EN

CEEC ON CALIFORNIA ENVIRONMENTAL ENGINEERS & CONTRACTORS

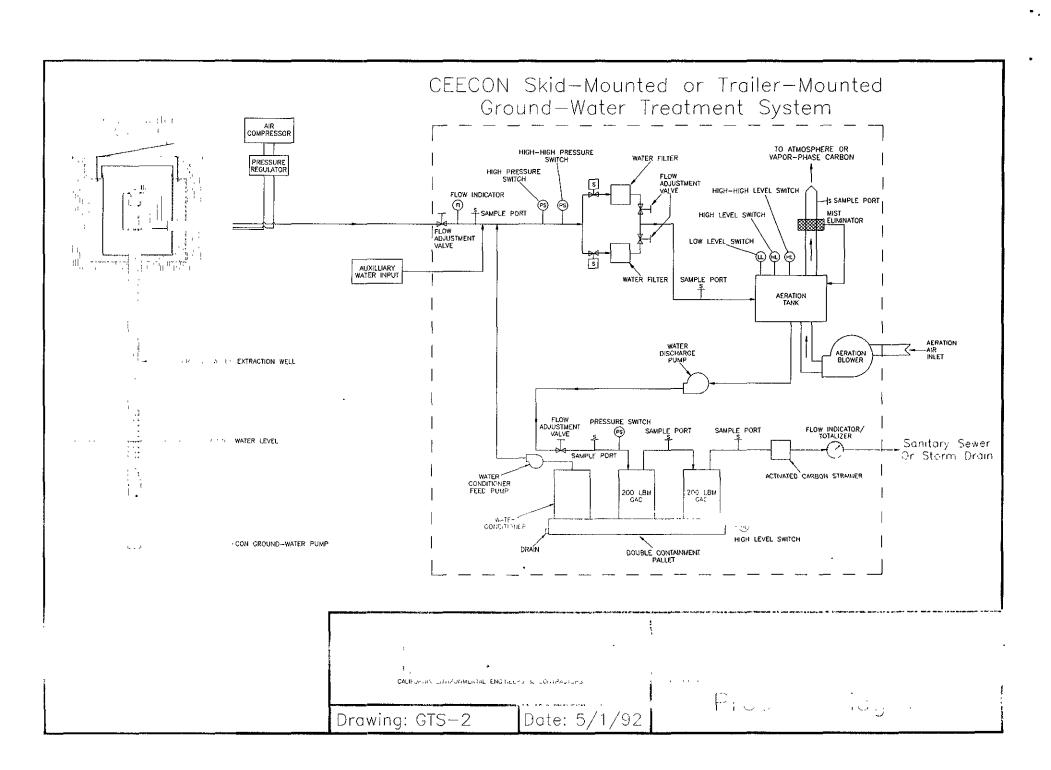
Drawing: GTS-1

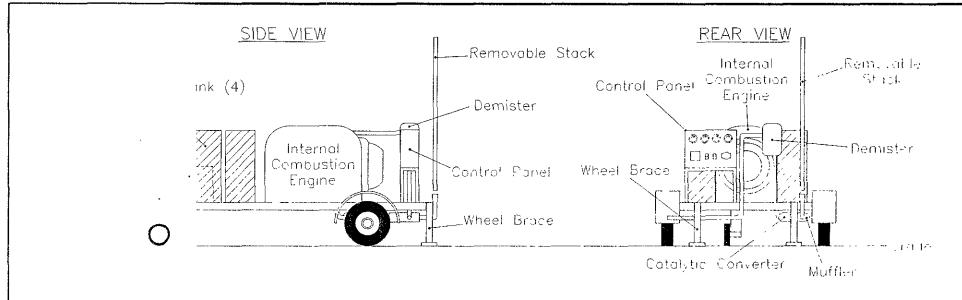
J. A. M. A.

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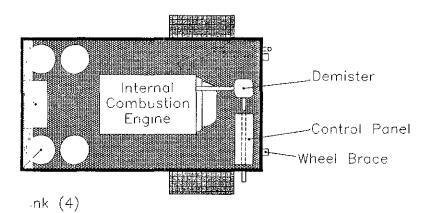
Date: 5/1/92

Trailer-Mounted Groundwater Treatment System





PLAN VIEW



Instrumentation Readouts

Engine Flow Meter

Engine R.P.M.
Engine Temperature In Degrees Fahrenheit
Engine Intake Vacuum In Inches Of Meirur,
Well Vacuum In Inches Of Water Column
Well Air Flow In Cubic Feet Per Minute

Well Air Flow Temperature In Degrees Fahrenheit

<u>Sample Ports</u>

Influent (Engine Intake) Effluent (Stock)

Remote Signals

Propane Level

Engine ON/OFF Status

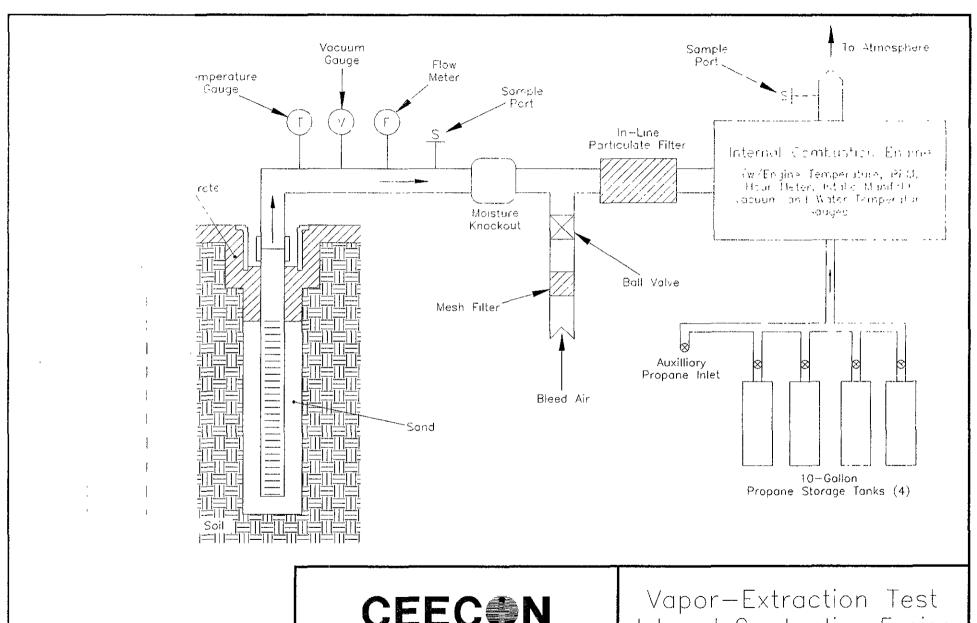


CEEC ON CALIFORNIA ENVIRONMENTAL ENGINEERS & CONTRACTORS

Drawing: VET-1

Date: 5/1/92

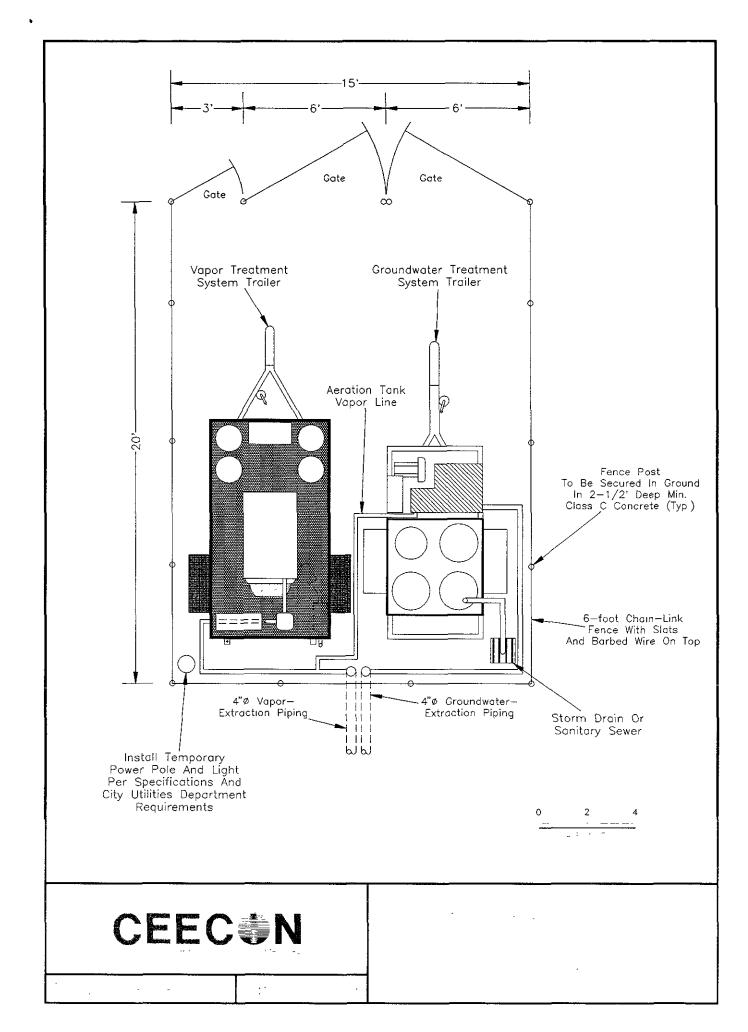
Vapor—Extraction Internal Combustion Engine

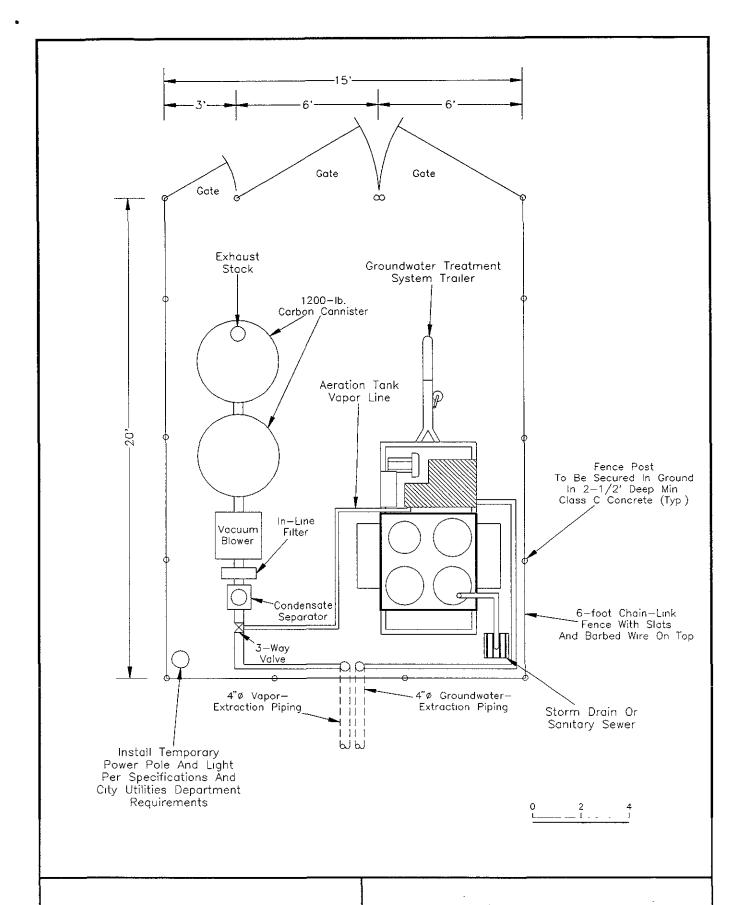


Drawing: VET-2

Date: 5/1/92

Internal Combustion Engine Process Diagram





CEECN

AIR QUALITY MANAGEMENT DISTRICT 939 Ellis Street, San Francisco, CA 94109 (415) 771-6000

DATA FORM G General Air Pollution Source

If in addition to the general process described hereon this source burns fuel, then complete Form C also. Use specific forms if applicable: Form T (organic tankage, loading), Form S (surface coating, solvent use).

	Former Toyago Sor	rrice Station			1 1
1 Business Name:_	Former Texaco Ser	vice Station	Pl	ant No: (If unknown, le	eave blank)
	Date of Initial	~		_	
Name or Descrip	otion:Soil & Groundwat	er Remediati	on System so	urce No.: 5_1_	
4 Make, Model, an	nd Rated Capacity of Equipment:	CEECON 10 GP	M GTS Water	Aeration Sy	ystem; 125 cf
5 Process Code* ((Column A): <u>7098</u> Materi	ials Code* (Column B);	_ <u>504</u>	e Unit* (Column C):	cf
5 Total throughpu	ut, last 12 months: N/A	Usage Units*	Max operating ra	te: <u>7,500</u>	Usage Units*/hr
7 Typical % of to	otal throughput: Dec-Feb 25	% Mar-May 2	Jun-Aug		25 %
3 Typical operati	ing times: 24 hrs/d	lay7	days/week	<u>52</u> week	s/year
For batch or cy	yclic processes:N/A	min/cycle	N/A	min. between c	ycles
	from source: Wet gas f	flow rate 125	cfm at		
(at max. oper	Approxima	ate water vapor conten	1.8	vol %	
EMISSION FACTORS ((at maximum operating rate)				
If this form is	s being submitted as part of an a If not, and the Source is <u>alread</u>	application for an AUT	HORITY TO CONSTRUCT	c, completion of the	following table
	also burns fuel, do not include				gar ca.
they are accoun	ated for on Form C. If source te those data the emissions attribut	est or other data are	available for compo	site emissions only	•
[]Check box :	if factors apply to emissions af	ter Abatement Device(s).	,	
		1	ION FACTORS Usage Unit*	Basis Code (see reverse)	
	•				
i	Particulate				
2	Organies	3	.33 x 10 ⁻⁸	4	
3	Nitrogen Oxides (as	NO ₂)			
!	Sulfur Dioxide				
5	Carbon Monoxide				
	Other:				
	7 nen ·				
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5-8 - 77		Michael Hode	jes		1/11/93

AIR QUALITY MANAGEMENT DISTRICT 939 Ellis Street, San Francisco, CA 94109 (415) 771-6000

DATA FORM G General Air Pollution Source

If in addition to the general process described hereon this source burns fuel, then complete Form C also. Use specific forms if applicable: Form T (organic tankage, loading), Form S (surface coating, solvent use).

1	Former Texaco Service Station Business Name: Plant No:
' ^	Business Name:Plant No:
	Name or Description: Soil & Groundwater Remediation System Source No.: \$ -2
3	Make, Model, and Rated Capacity of Equipment: CEECON C-1000 Internal Combustion Engine 150 cfm
	Process Code* (Column A): 7098 Materials Code* (Column B): 504 Usage Unit* (Column C): Cf
	Total throughput, last 12 months: N/A Usage Units* Max operating rate: 9,000 Usage Units*/hr
7	Typical % of total throughput: Dec-Feb 0 % Mar-May 100 % Jun-Aug 0 % Sep-Nov 0 %
	Typical operating times: 24 hrs/day 7 days/week 2 weeks/year
9	For batch or cyclic processes: $\frac{N/A}{min/cycle}$ $\frac{N/A}{min.}$ min. between cycles
10	Exhaust gases from source: Wet gas flow rate 150 cfm at 70 °F (at max. operation)
	Approximate water vapor content 1.8 vol 1
EM	ISSION FACTORS (at maximum operating rate)
	If this form is being submitted as part of an application for an AUTHORITY TO CONSTRUCT, completion of the following table is mandatory. If not, and the Source is <u>already in operation</u> , completion of table is requested but not required.
	If this source also burns fuel, do not include those combustion products in the emission factors below; they are accounted for on Form C. If source test or other data are available for composite emissions only, estimate from those data the emissions attributable to just the general process and show below.
	[]Check box if factors apply to emissions after Abatement Device(s).
	EMISSION FACTORS bs/Usage Unit* Basis Code (see reverse)
11	Particulate
2	Organics
3	Nitrogen Oxides (as NO ₂).
14	Sulfur Dioxide
15	Carbon Monoxide
6	Other:
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	* 7
	*Entry Tables Controlling on the state of th
٤	Fig. 1. Sec. Sec. Sec. Letter this formMichael Hodges

AIR QUALITY MANAGEMENT DISTRICT 939 Ellis Street, San Francisco, CA 94109 (415) 771-6000

DATA FORM A ABATEMENT DEVICE

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

	gard to air pollutar	nt flow into this	abatement devic	ce, what		·	Upon "Permit
ce(:	s) and/or abatement						2 <u>\$</u> A
cal	Gas Stream Temperat	cure at Inlet: _	70 _°	?			
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<u> </u>	Nitrogen Oxides	(as NC ₂)			12		
Ì	Sulfur Dioxide				g,	//	
	Carbon Monoxide				1,		
	Other:				9,		
	Other:				7.		
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BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street, San Francisco, CA (415) 771-6000 94109 DATA FORM C FUEL COMBUSTION SOURCE

District	t U	se	Only	
New	[1		
Modified	[]		l
Retro	1]		l
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1

Form C is for all operations which burn fuel. If the operation also involves evaporation of any organic solvent, complete Form S and attach to this form. If the operation involves a process which generates any other air pollutants, complete Form G and attach to this form.

X Check box if this source has a secondary function as an abatement device for some other source(s); complete Lines 1, 2, & 7-13 on Form A (using the source number below for the Abatement Device No.)

and attach to this form. 1. Company Name Former Texaco Service Statlation. (If Unknown, Leave Blank) Source No. S-2 C-1000 Internal Combustion Engine 2. Equipment Name and Number, or Description 3. Make, Model CEECON C-1000 Maximum Firing Rate 170,000 BTU/Hr Upon Permit Approval 4. Date of Modification or Initial Operation] Space Heat] Cogeneration] Waste Disposal [] Electrical Generation [] [X] Abatement Device [] [] Process Heat; Material Heated 5. Primary Use (Check One): Testing [] Resource Recovery 1 Other 6. SIC Number (If Unknown, Leave Blank) 7. Equipment Type (Check One): Diesel Engine Internal Combustion Displacement 300 cubic inches Otto Cycle Engine Gas Turbine hp Other Salvage Operation Incinerator Temperature °F Liquid Waste Pathological Waste Residence Time Sec Other] Dryer Others Boiler Afterburner Oven Material dried, baked, or heated Flare Furnace Open Burning] Kiln Other 8. [] Yes [] No Overfire Air? If Yes, what percent (%) _____ If Yes, what percent (%) ____ 9.] Yes No Flue Gas Recirculation? 10. [] Yes Air Preheat? Temperature [] No [] No Low NOx Burners? 11. [] Yes Make, Model 1,700 12. Maximum Flame Temperature -Wet Gas Flow Rate 150 acfm at 70 °F 13. Combustion Products: Typical Oxygen Centent _____ dry volume % or _____ wet volume % % excess air or 7____Weeks/Year 14. Typical Use: Hours/Day 24 Davs/Week 15. Typical % of Amnual Total Decific 0 3 Mar-May 100 % Jun-Nug 16. With regard to air poliutant flow, what source(s, or abatement device(s) are immediately upstream? with regard to dir pollutant flow, what source so, adatement device(s), and/or emission points are unreduately cownstream? Michael Hodges 10780

Person Completing This Form

INSTRUCTIONS: Complete one line in Section A for each fuel. Section B is OPTIONAL. Please use the units at the bottom of each table. N/A means 'Not Applicable".

SECTION A: Fuel Data

Puel Name	Fuel Code **	Total Amual Usage ***	Maximum Possible Fuel Use Rate	Typical Heat Content	Sulfur Content	Nitrogen Content (OPTIONAL)	Ash Content (OPTIONAL
Propane		0.7	2.1 x 10	-3 92 x 10	6		
Use the	Matural Gas	Therms*	BTU/Hr	N/A	N/A	N/A	N/A

appropriate units for each fuel

Natural Gas	Therms*	BTU/Hr	N/A	N/A	N/A	N/A
Other Gas	MSCF*	MSCF/Hr	BTU/MSCF	12000	N/A	N/A
Liquid	MGAL*	MGAL/Hr	BTU/MGAL	wt %	wt.%	wt %
Solid		Ton/Hr	BTU/Ton	wt %	wt %	Wt %

SECTION B: Emission Factors (OPTIONAL)

	Fuel Name	Particulate	es	NOx		C)	Other		Other	
		Emission Factor **	Basis	Emission Factor	**Basis	Emission Factor	**Basis	Emission Factor	**Basis	Emission Factor	**Basis
1.									-{		
2.											
3.											
4.											
5.											

Use the appropriate units for each fuel

Natural Gas	1b/Therm
Other Gas	1b/MSCF
Liquid	1b/MGAL
Solid	1b/Ton

- * MSCF = thousand standard cubic feet
- * MGAL = thousand gallons
- * Therm = 100,000 BTU

NOTES:

- ** See tables below for Fuel and Basis Codes
- *** Total Amnual Usage is: Projected usage over next 12 months if equipment is new or modified.
 - : Actual usage for last 12 months if equipment is existing and unchanged.

FUEL CODES

CODE	FUEL	CODE	<u>FUEL</u>
25	Anthracite Coal	189	Natural Gas
33	Bagasse	234	Process Gas Blast Furnace
35	Bark	735	Process Gas 00
43	Bituminous Coal	236	Process Cas - Coke Oven Gas
47	Brown Coal	238	Process Gas - RMG
242	Bunker C Fuel Oil	237	Process Gas - Other
80	Coke	242	Residual Oil
89	Crude Oil	495	RDF
98	Diesel Oil	493	Sludge (as
493	Digester Gas	256	Solič Propellant
100	Distillate Oil	257	Solic Waste
128	Gasoline	304	Wood - → logged
158	Jet Fuel	305	Wood - Other
160	LPG	198	Other - Gaseous Fuels
165	Lignite	200	Other Liquid Fuels
167	Liquid Waste	203	
494	Municipal Solid Waste		

BASIS CODES

CODE METHOD

- Not applicable for this pollutant
- Source testing or other measurement by plant (attach copy)
- Source testing or other measurement by BAAQMD (give date)
- Specifications from vendor (attach copy)
- Material balance by plant using engineering expertise and knowledge of process Material balance by BAAQMD Taken from AP-42 (Compilation of Air Pollutant

- Emission Factors, EPA)
 Taken from literature, other than AP-42 (attach copy)
- Guess

AIR QUALITY MANAGEMENT DISTRICT 939 Ellis Street, San Francisco, CA 94109 (415) 771-6000

DATA FORM A ABATEMENT DEVICE

Abatement Device: Equipment/process whose primary purpose is to reduce the quantity of pollutant(s) emitted to the atmosphere.

		e on reverse stat	;): <u> </u>	D	ate of Initia	Upor 1 Operation:	n Permi App
	ard to air pollutar) and/or abatement				s -1	<u>s -2</u>	
<u> </u>		<u></u>	A	<u> </u>	A	A	A
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	P	POLLUTANT		PERCENT REDUCTION		BASIS CODE (Codes on revers	
-	Particulate	·	(at t	ypical operation	<i>y</i> ,	(Codes on revers	se side)
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-	Organics			98	4	1	
-	Organics Nitrogen Oxides	s (as NO ₂)		98	\$. \$	1	
-		s (as NO ₂)		98		1	
	Nitrogen Oxides	-		98	7,	1	
	Nitrogen Oxides	3		98	¥.	1	
	Nitrogen Oxides Sulfur Dioxide Carbon Monoxide	3		98	Z Z	1	
	Nitrogen Oxides Sulfur Dioxide Carbon Monoxide Other:		curns fuel. comple		Z Z Z		

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street, San Francisco, CA 94109 (415) 771-6000

DATA FORM P Emission Point

	: Former Texaco	Service Statio			o.:	
				Emission Point N	o.: <u>P-1</u>	
	o air pollutant flow into to and/or abatement device(am?			
			<u> </u>	<u>\$ -2</u>	<u> </u>	
S	_ s _ s	A-1	A	A	A	
ross-sec	ntion Area: 0	.0218 Square feet	Height above	e grade:	15	Feet
Cross-sec	ction Area:O	.0218 Square feet	Height above	e grade:	15	Fee
	otion Area: 0 from Stack:		Height above ting Condition	e grade: Maximum Operati		
uent Flow						
ent Flow	from Stack:	Typical Opera	ting Condition	Maximum Operati	ng Condition	
ent Flow	from Stack: Actual Wet Gas Flow Rate	Typical Opera	ting Condition cfm	Maximum Operati	ng Condition cîm	
ent Flow	from Stack: Actual Wet Gas Flow Rate Percent Water Vapor	Typical Opera 100 1.8	ting Condition cfm Vol %	Maximum Operati	ng Condition cfm Vol %	
ent Flow	from Stack: Actual Wet Gas Flow Rate Percent Water Vapor	Typical Opera 100 1.8 700	cfm Vol %	Maximum Operati 150 1.8 800	ng Condition cfm Vol %	
ent Flow	from Stack: Actual Wet Gas Flow Rate Percent Water Vapor Temperature	Typical Opera 100 1.8 700 onitor) the emission of a	cfm Vol %	Maximum Operati 150 1.8 800	ng Condition cfm Vol %	

Person Completing this Form

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 Ellis Street, San Francisco, CA 94109 (415) 771-6000

DATA FORM P Emission Point

Form P is for well-defined emission points such as stacks or chimneys only; do not use for windows, room vents, etc.

sinosa Noma.	Former T	exaco Ser	vice Station		Plant No.		<u> </u>
THESS NAME:					Emission Point No	p.:p_2	
th regard to at source(s)	air pollutant fl and/or abatement	ow into this emi device(s) are j	ission point, immediately upstream	?			
				<u>S-1</u>	<u>s -2</u>	\$	
<u> </u>	S	\$	_ <u> </u>	A	_A	A	_
it Cross-sect	tion Area:	0.0218	Square feet	Height above	e grade:	15	Feet
Fluent Flow f			Typical Operation 100		Maximum Operatir		
	ctual Wet Gas Flo		1.8	cfm 	1.8	cfm Vol %	
Te	emperatur e	<u></u>	70	°F	100	° _F	
	is equipped to me	No	the emission of any	air pollutants	3,		

PERMIT SERVICES DIVISION

BAY AREA AIR QUALITY MANAGEMENT DISTRICT 939 ELLIS STREET SAN FRANCISCO, CA 94109 / (415) 749-5000

FORM P-101B

BAAQMD PLANT #	APPLICATION #
APPLICATION FOR AUTHORITY TO CONSTRUCT,	PERMIT TO OPERATE, OR BANKING
BUSINESS NAME (Operator) Texaco Environmental Sei	rvices
OTHER BUSINESS NAME California Environmen#al	Engineers & Contractors
1517 Palmetto Avenue, Suite	
MAILING ADDRESS Street City	State Zip Code
2375 Shoreline Drive, Alameda	<u>-</u>
Street City	State Zip Code
MAILING TELEPHONE # (415) 738-1115	PI ANT TEI EPHONE # NONE
NAME OF CONTACT Michael Hodges	TITLE Engineering Manager
EQUIPMENT DESCRIPTION Soil and Groundwater Ren	nediation Equipment
NUMBER OF SOURCES Two (2)	
SKIP IF PLANT # IS ALREADY ASSIGNED. DISTR	ICT HAS CURRENT INFORMATION
*	
PLANT AREA (Acres) less than 1	OWNERSHIP X PRIVATE
NUMBER OF EMPLOYEES No direct employees	E T T TITLITY
	[] LOCAL GOVERNMENT [] STATE GOVERNMENT
PRINCIPAL PRODUCT Former Petroleum Retailer	[] FEDERAL GOVERNMENT
PLEASE SUBMIT A NAME AND AI ALL CORRESPONDENCE REGARDI	
CONTROL SHOULD B	
Michael Hodge	s @ CEECON
Contact Name 1517 Palmetto Avenue	, Suite 4, Pacifica, CA 94044
Toly laim too Avende	, 54100 -, raciilea, CA 94044
Street City State	Zip Code
(415) 738-1115	
Telephone Number	r -OVER-

CHECK ALL THAT APPLY	
NEW CONSTRUCTION [] MODIFICATION [X] REPLACEMEN	TT[] BANKING[]
CHANGE OF CONDITIONS [] EXISTING UNPER	MITTED *[] *Date Installed
HAS AN ENVIRONMENTAL IMPACT REPORT OR OTHER CALIFORNIA ENVIRONMENTAL QI	JALITY ACT DOCUMENT BEEN PREPARED
FOR THIS PROJECT? YESNOX	
IF YES, BY WHOM?	TD#
IS THIS APPLICATION A RESULT OF A VIOLATION NOTICE(s)? YES	юX
IF YES, GIVE THE VIOLATION NOTICE(S)	•
IN ORDER TO EXPEDITE YOUR APPLICATION THE FOLLOWING ITEMS S MAP MARKING THE LOCATION OF THIS FACILITY; (B) PROJECT DESCRIPT APPLICABLE; (C) A DESCRIPTION OR MANUFACTURER'S CATALOGUE OF EQUIP EQUIPMENT; (D) EMISSION QUANTIFICATION; (E) SOURCE OF OFFSETS; (F) PSE [SEE AB884 - LIST AND CRITERIA FOR FURTHER DETAILS.] IMPORTANT: ALL INFORMATION THAT YOU SUBMIT WILL BE CONSIDERED PUBL THAT IT IS CONSIDERED TRADE SECRET.	ION AND PROCESS FLOW DIAGRAM (IF PMENT AND AIR POLLUTION ABATEMENT INFORMATION [MAJOR PROJECTS ONLY]. IC INFORMATION UNLESS YOU INDICATE (mitial)
PURSUANT TO SECTION 25532 AND 44321 OF THE HEALTH AND SAFET SOURCES IN THIS PERMIT APPLICATION (Initial Appropriate Box): ARE WITHIN 1,000 FEET OF THE OUTER BOUNDARY OF THE BOUNDARY OF THE OUTER BOUNDARY OF THE BOUNDARY	राम्बर के हैं है। जा किस के प्राप्त के किस के प्राप्त के किस के प्राप्त के किस के प्राप्त के किस के किस के प्र जानकार
ARE NOT WITHIN 1,000 FEET OF THE OUTER BOUNDA	
SIGNATURE TITLE	Engineering Manager
NAME (Printed) Michael Hodges DATE_	1/11/93
1. 注意知道范围建筑的数据,1976年10日,1986年1996年1996年1996年1996年1996年1996年1996年	

NOTE: PERMITS FOR YOUR PROJECT MAY ALSO BE REQUIRED FROM OTHER AGENCIES. FOR FURTHER INFORMATION, YOU SHOULD CONTACT THE LOCAL CITY OR COUNTY OFFICE OF PERMIT ASSISTANCE WITHIN THE OFFICE OF PLANNING AND RESEARCH IN SACRAMENTO. THE ADDRESS IS AS FOLLOWS:

Office Planning And Research 1400 Tenth Street Sacramento, California 95814 [916] 322-4245

REQUEST FOR INFORMATION; RISK SCREENING ANALYSIS

NOTE: You must fill out one of these forms for each source in the permit
application that requires a risk screen, unless all sources exhaust through a
single stack. These may be discrete sources such as stacks or area sources
such as surface area fugitive emissions.

					00010	d none this			
	9. Are there source?	YES	gs, walls or oth	Please			Area	Map.	Α
	IE VEC		dimensions?	12000				r	
	•								
	heigh	nt =	mete	ers or feet			•	•	
	width	า =	met	ers or feet					
	lengt	h =	mete	ers or feet					
	dista	nce from so	ource	meters	or fe	eet			
(GO	ON TO SECT	TON C)							
			SECTION B		•				
					_				
	1. Is the sou	rce located	within a buildir	ng? YES N	0				
	fugitiv an are	e emissions	ride a description that must be expression to the control of the dimension C.)	evaluated as a	n are	a source. If	f		
	(If YES	S, proceed	to #2, below)						
		-	•						
	•								
	outside?	-	ve a ventilation	system that is	s ven	ted to the			
	YES	NO							
				, , , , , ,					
	hours	are the bu of operatio NO	ilding's doors a. n?	na windows k	ept o	pen auring			

3. Please provide the building dimensions:	
height =meters or feet	
width =meters or feet	
Length =meters or feet	
4. Are there any buildings, walls or other structures located near the source ? YES NO	is
If YES, what are their dimensions?	
height =meters or feet	
width =meters or feet	
length =meters or feet	
distance from sourcemeters or feet	
(GO ON TO SECTION C)	
IGO ON TO SECTION CI	
SECTION C	
1. Describe the area where the source is located (select one):	
xxxxxoned for commercial use	
XXXXvoned for residential use	
c) zoned for mixed commercial and residential use	
2. Distance from source (stack or building) to property line =	

Risk Screening Analysis June 12, 1992

3.	Distance from	source to	nearest	receptor * *	=	
	15		_xmexen	sxovr feet		

IMPORTANT:

You must provide a plot plan or a map, <u>drawn to scale</u>, which clearly demonstrates the location of your site, the property lines and any surrounding residences and/or businesses. The plot plan or map should also show the location of the source(s) at the site and their relationship to the property line.

^{**} Receptors are defined as individual dwellings where persons are assumed to be in continuous residence. Please note that this does not refer to places of business.

CHAIN OF CUSTODY AND RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES

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Project Manager Michael Gompany/Addre							Pho	วกอ ส	# :										Δ	NΔ	LY	SIS	R	 FOI	ue:	ST						·, ·						T	TAI	
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Sample		pling	ł			ine		ı	Met rese	hod	ic	l		trix	*****	(8020)	as Gaso	sel/Oil (Grease (656939	010	3 8	150	380 - Pes	80-88	97 5	EAD	Corros	hetals	ity Pollu	47421/23	Zn, Ni					}	RVICE (D SER	O SER
מו	DATE	TIME	VOA	SLEEVE	1L GLASS	1LPLASTIC	12 RYLAR	HCI	SOU LIGHT	NONE		WATER	SOIL	VARIZ		BTEX (602/8020)	ВТЕХЛТРН	TPH as Diesel/Oil (8015)	Total Oil &	OF HOUR	EPA 801/8	EPA 602/8(EPA 615/8	EPA 608/8(EPA 608/8	EPA 624/8240	ORGANIC	Reactivity, Corrosivity, Ionitibility	CAM - 17 M	EPA - Priority Pollutant Metais	LEAD(7420	Cd, Cr, Pb,						RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDAR
V-1227- Y LINE	296097	1115				- 1	7		1	1				1			7	7	1		十	1	П	1	一	\top	1	-	一				一	 		十	_	1	1	7
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Excelchem

Environmental Labs

8112 Patton Avenue Citrus Heights, CA 95610 (916) 729-5313



ANALYSIS REPORT

Attention: Project:	CEECO 1517 Paci:	- •	Ave.,Suite	4	Date BTEX	Sampled Receive Analyze Analyze Matrix:	d: d:	12-29-92 12-29-92 12-31-92 12-31-92 Air
Reporting I	.imit:	Benzene mg/M ³ 1.0	Toluene mg/M ³ 1.0	Ethylbenze	ne	Total Xylenes mg/M ³ 1.0	TPH9	<u>3</u>
SAMPLE Laboratory	Ident	ification						
V-1229-V1IN A1292331	IF	33	15	1.1		250	3100	

mg/M³ = milligrams per cubic meter.

ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using modified EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.

Representative

Date Reported

Excelchem

Environmental Labs

8112 Patton Avenue Citrus Heights, CA 95610 (916) 729-5313



ANALYSIS REPORT

Attention: Mr. Mike Hodges CEECON 1517 Palmetto Ave., Suite 4 Pacifica, Ca. 94044 Project: Texaco-Florin Benzene mg/M³ Reporting Limit: 0.1 Date Sampled: 12-29-92 Date Received: 12-29-92 Pate Received: 12-29-92 Date Received: 12-29-92 Pate Received: 12-29-92 Pate Received: 12-29-92 Date Received: 12-29-92 Pate Received: 12-31-92 Pate Received: 12-29-92 Pate Received: 12-31-92 Pate Received: 12-31-92	SAMPLE						····	· ···- <u></u>	
CEECON 1517 Palmetto Ave., Suite 4 Pacifica, Ca. 94044 Date Sampled: 12-29-92 Date Received: 12-29-92 TPHg Analyzed: 12-31-92 Matrix: Matrix:	Reporting L	imit:	mar/M ³	mq/M^3	benze mg/M ²	ene :	Xylenes mg/M ³	mg/M	
		CEEC 1517 Paci	ON Palmetto fica, Ca.	Ave.,Suite	2 4	Date BTEX	Receive Analyze Analyze	ed: ed: ed:	12-29-92 12-31-92 12-31-92

Laboratory Identification

V-1229-V1EFF A1292332

0.4

1.2

0.3

1.4

13

 mg/M^3 = milligrams per cubic meter. ND = Not detected. Compound(s) may be present at concentrations below the reporting limit. NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using modified EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

TPMg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.

Laboratory Representative

Date Reported