

LAW OFFICES OF PRITPAUL S. SAPPAL

PRITPAUL S. SAPPAL
Attorney At Law
872 Coral Drive
Rodeo, CA 94572

Telephone 510-799-7722
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5-29-96

Re: 1310 Central Ave, Alameda.

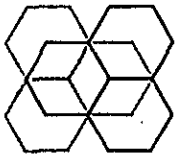
Dear Juliet:

I have received certificate of analysis for the soil samples and water sample of waste oil pit.

Please go over this report and I will contact you in a couple of days to discuss this report.

Sincerely

Paul



AN/EN Inc

Analytical & Environmental Chemistry

05/20/96

A/E4134

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID: ALASKA GASOLINE
Date Received by Lab: 05/08/96
Total Number of Samples: 1
Sample Matrix: SOIL

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.

Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

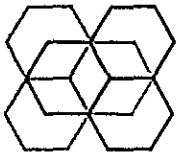
Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7, 1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 10 pages.

Reviewed and Approved:


Laurie Glantz-Murphy, Laboratory Manager



AN / EN Inc

Analytical & Environmental Chemistry

TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: **ALASKA GASOLINE**

Date Sampled: 05/08/96

Date Received: 05/08/96

Matrix: **Soil**

Analyst: *Am*

Concentration in sample expressed as ug/g (ppm).

Sample ID	Diesel	Oil	Lab I.D.	Date Extracted	Date Analyzed	PQL (ppm)
WASTE OIL PIT BOTTOM	ND	3000	4134-01	05/09/96	05/09/96	1000
Method Blank	ND	ND	4134-MB	05/09/96	05/09/96	10

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel(C12-C24).

Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil(C24-C40)

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 3550 is used for sample preparation



AN / EN Inc

Analytical & Environmental Chemistry

TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE - SOIL

Batch I.D.: 0509-06

Date Extracted: 05/09/96

Date Analyzed: 05/09/96

Concentration of sample and spikes expressed as ug/g (ppm).

ANALYTE	Spike Added	LCS Conc	LCS %Rec	%Rec Limits
Diesel	50	52	104%	57-116

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project/I.D.: **ALASKA GASOLINE**

Laboratory I.D.: 4134-01
Batch I.D.: 0511-10.D
Date Sampled: 05/08/96
Date Received: 05/08/96
Matrix: Soil

Sample I.D.: **BOTTOM WASTE OIL PIT**
Date Analyzed: 05/11/96
Dilution: 5
Analyst: *JM*

Concentration of sample expressed as ug/g (ppm).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	.50
Benzene	ND	.25
Toluene	ND	.25
Ethylbenzene	.30	.25
Xylenes-Total	.85	.25
TPH-Gasoline	470. P	25

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

P - Not a typical gasoline pattern; possibly weathered or the volatile fraction of a higher boiling mixture.

Methanol extraction

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	94%	64-129
4-BFB(FID)	97%	55-151
4-BFB(PID)	95%	68-137

Volatle Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed , July 1992. Method 5030 (Purge & Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0511-01.D

Date Acquired: 05/10/96

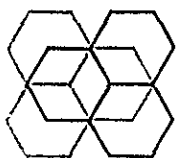
Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	102%	73-126
4-BFB(FID)	105%	67-146
4-BFB(PID)	103%	82-119

Volatle Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992 Method 5030 (Purge & Tr is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



LABORATORY CONTROL SAMPLES

Method: VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Date Acquired: 05/10/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	20.	102%	84-113
Toluene	20.	20.	102%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	21.	103%	88-113
o-Xylene	20.	21.	104%	88-114
TPH-Gasoline	1,250.	1,346.	108%	77-130

Surrogates	LSC-8020M	Batch ID:	0511-04	
a,a,a-TFT-FID			98%	73-126
4-BFB-FID			103%	67-146
4-BFB-PID			104%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0511-05	
a,a,a-TFT-FID			91%	73-126
4-BFB-FID			122%	67-146
4-BFB-PID			103%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: 8010
 Laboratory Number: 4134-01
 Date Sampled: 05/08/96
 Date Received: 05/08/96
 Matrix: Soil

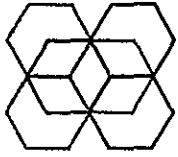
Sample I.D.: Waste Oil Pit Bottom
 Project: Alaska Gas
 Dilution: 100
 Date Analyzed: 05/15/96
 Analyst: *ry*

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		100
75-01-4	Vinyl chloride	ND		100
74-83-9	Bromomethane	ND		100
75-00-3	Chloroethane	ND		100
75-69-4	Trichlorofluoromethane	ND		100
75-35-4	1,1-Dichloroethene	ND		100
76-13-1	Trichlorotrifluoroethane	ND		100
75-09-2	Methylene chloride	ND		100
156-60-5	trans-1,2-Dichloroethene	ND		100
75-35-3	1,1-Dichloroethane	ND		100
156-69-4	cis-1,2-Dichloroethene	ND		100
67-66-3	Chloroform	ND		100
71-55-6	1,1,1-Trichloroethane	ND		100
56-23-5	Carbon tetrachloride	ND		100
107-06-2	1,2-Dichloroethane	ND		100
79-01-6	Trichloroethene	ND		100
78-87-5	1,2-Dichloropropane	ND		100
75-27-4	Bromodichloromethane	ND		100
10061-01-5	cis-1,3-Dichloropropene	ND		100
10061-02-6	trans-1,3-dichloropropene	ND		100
79-00-5	1,1,2-Trichloroethane	ND		100
127-18-4	Tetrachloroethene	ND		100
124-48-1	Chlorodibromomethane	ND		100
108-90-7	Chlorobenzene	ND		100
106-93-4	1,2-Dibromoethane (EDB)	ND		100
75-25-2	Bromoform	ND		100
79-34-5	1,1,2,2-Tetrachloroethane	ND		100
541-73-1	1,3-Dichlorobenzene	ND		100
106-46-7	1,4-Dichlorobenzene	ND		100
95-50-1	1,2-Dichlorobenzene	ND		100

Surrogates	Recovery	Limits	PQL = Practical Quantitation Limit ND = None Detected at or above the PQL
3-Chloro-1-propene	94%	70-135%	
4-Chlorotoluene	101%	70-135%	

NOTE: Sample was diluted due to matrix interference.



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: 8010
 Laboratory Number: BLK0515B
 Date Sampled: N/A
 Date Received: N/A
 Matrix: Soil

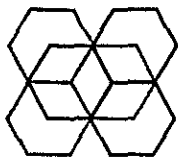
Sample I.D.: Method Blank
 Project: Alaska Gas
 Dilution: 50
 Date Analyzed: 05/15/96
 Analyst: *fy*

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		50
75-01-4	Vinyl chloride	ND		50
74-83-9	Bromomethane	ND		50
75-00-3	Chloroethane	ND		50
75-69-4	Trichlorofluoromethane	ND		50
75-35-4	1,1-Dichloroethene	ND		50
76-13-1	Trichlorotrifluoroethane	ND		50
75-09-2	Methylene chloride	ND		50
156-60-5	trans-1,2-Dichloroethene	ND		50
75-35-3	1,1-Dichloroethane	ND		50
156-69-4	cis-1,2-Dichloroethene	ND		50
67-66-3	Chloroform	ND		50
71-55-6	1,1,1-Trichloroethane	ND		50
56-23-5	Carbon tetrachloride	ND		50
107-06-2	1,2-Dichloroethane	ND		50
79-01-6	Trichloroethene	ND		50
78-87-5	1,2-Dichloropropane	ND		50
75-27-4	Bromodichloromethane	ND		50
10061-01-5	cis-1,3-Dichloropropene	ND		50
10061-02-6	trans-1,3-dichloropropene	ND		50
79-00-5	1,1,2-Trichloroethane	ND		50
127-18-4	Tetrachloroethene	ND		50
124-48-1	Chlorodibromomethane	ND		50
108-90-7	Chlorobenzene	ND		50
106-93-4	1,2-Dibromoethane (EDB)	ND		50
75-25-2	Bromoform	ND		50
79-34-5	1,1,2,2-Tetrachloroethane	ND		50
541-73-1	1,3-Dichlorobenzene	ND		50
106-46-7	1,4-Dichlorobenzene	ND		50
95-50-1	1,2-Dichlorobenzene	ND		50

Surrogates	Recovery	Limits
3-Chloro-1-propene	91%	70-135%
4-Chlorotoluene	101%	70-135%

PQL = Practical Quantitation Limit
 ND = None Detected at or above the PQL



LABORATORY CONTROL SAMPLE

EPA Method: 8010
Laboratory Number: LCS0515A
Matrix: Water

Date Analyzed: 05/15/96
Analyst: *RV*

Concentration expressed as ug/L (ppb).

COMPOUND	Spike Added	LCS Conc	LCS Rec	%Rec	Limits
1,1-Dichloroethene	10	9.6	96%		75-125
1,2-Dichloroethane	10	9.7	97%		75-125
Trichloroethene	10	9.5	95%		75-125
Tetrachloroethene	10	10.6	106%		75-125
Chlorobenzene	10	9.2	92%		75-125
<u>Surrogates</u>					
3-Chloro-1-propene			96%		80-120
4-Chlorotoluene			97%		80-120

* = Values outside of QC limits.

Spike Recovery: 0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE

CHAIN OF CUSTODY RECORD

A/E 4134

0010

JOB NO.	PROJECT NAME	NO. OF CONTAINERS	ANALYSIS						SEALED?	REMARKS
LAB. NO.	SAMPLER (Signature)		TPH-G	TPH-D	BTEX	8270	8010			
DATE	SAMPLE LOCATION/INFORMATION									
DTE NO.										
5896	Alaska Gasline <i>Anthony Kunkle</i>	1	X	X	X	+	X		slight odor	

CHAIN OF CUSTODY RECORD

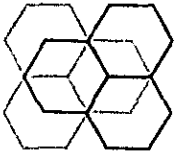


PETROTEK
P.O. Box 812317
San Jose, California 95181

AN/EN
Inchcap
AN/EN

Inchape to do 8270 only
Bill + report to AN/EN
PO #4134
2 copies of report please
5/9/96 YAN

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LAB TO NOTE - Y/N → REMARKS
<i>[Signature]</i>	5/8/96 7:00 PM	<i>[Signature]</i> AN/EN	Relinquished by <i>[Signature]</i> 5/8/96 8:30
			Rec'd By: <i>[Signature]</i> 5/10/96 08:30



AN / EN Inc

Analytical & Environmental Chemistry

05/20/96

A/E4131

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID: **ALASKA GASOLINE**
Date Received by Lab: 05/07/96
Total Number of Samples: 9
Sample Matrix: **SOIL(5), SOIL COMPOSIT(3), & WATER(1)**

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.


Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

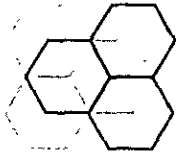
Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7, 1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 16 pages.

Reviewed and Approved:


Laurie Glantz-Murphy, Laboratory Manager



AN / EN Inc

Analytical & Environmental Chemistry

TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: **ALASKA GASOLINE**
Date Sampled: 05/02/96 - 05/03/96
Date Received: 05/06/96
Matrix: **Soil**
Analyst: *pm*

Concentration in sample expressed as ug/g (ppm).

Sample ID	Diesel	Oil	Lab I.D.	Date Extracted	Date Analyzed	PQL (ppm)
WASTE OIL NORTH END	ND	1400	4131-05	05/07/96	05/08/96	200
WASTE OIL COMPOSITE	ND	3800	4131-08	05/07/96	05/08/96	1000
Method Blank	ND	ND	4131-MB	05/07/96	05/07/96	10

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel(C12-C24).

Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil(C24-C40)

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 3550 is used for sample preparation



AN / EN Inc

Analytical & Environmental Chemistry

TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: **ALASKA GASOLINE**

Date Sampled: 05/02/96

Date Received: 05/06/96

Date Extracted: 05/07/96

Matrix: **Water**

Analyst:

Concentration in sample expressed as ug/L (ppb).

Sample ID	Diesel	Oil	Lab I.D.	Date Analyzed	PQL
WASTE OIL PIT WATER	ND	35000	4131-01	05/08/96	5000
Method Blank	ND	ND	4131-MB	05/08/96	50

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel(C12-C24).

Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil(C24-C40)

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 3550 is used for sample preparation



AN / EN Inc

Analytical & Environmental Chemistry

TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE - SOIL

Batch I.D.: 0506-13

Date Extracted: 05/07/96

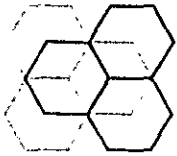
Date Analyzed: 05/07/96

Concentration of sample and spikes expressed as ug/g (ppm).

ANALYTE	Spike Added	LCS Conc	LCS %Rec	%Rec Limits
Diesel	50	48	96%	57-116

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits.



AN/EN Inc

Analytical & Environmental Chemistry

TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE/DUPLICATE - WATER

Batch I.D. WLCS: 0508-08

Batch I.D. WLCS/D: 0508-09

Date Extracted: 05/07/96

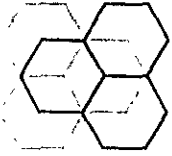
Date Analyzed: 05/08/96

Concentration of sample and spikes expressed as ug/L (ppb).

ANALYTE	Spike Added	LCS Conc	LCSD Conc	LCS %Rec	LCSD %Rec	RPD	%Rec Limits	RPD Limits
Diesel	500	455	460	91%	92%	-1%	57-116	37

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **ALASKA GASOLINE**

Matrix: **Soil**

Date Received: 05/06/96

Analyst: *Ym*

Sample I.D.:	PLUS UL	PLUS UL	SUPERUL	SUPERUL	W. OIL	SUPERUL	W. OIL	PLUSUL	PQL
	WEST	EAST	WEST	EAST	NORTH		COMP.		
	END	END	END	END	END			COMP	ppm
Methyl-tert-Butyl Ether	<5	<5	<5	<5	ND	<5	ND	<.3	0.10
Benzene	31	<2	25	2.6	ND	17	ND	<.2	0.05
Toluene	250	16	190	34	ND	120	ND	.59	0.05
Ethylbenzene	74	8.3	75	21	ND	21	ND	.18	0.05
Xylenes-Total	560	190	400	250	ND	330	.06	5.6	0.05
TPH-Gasoline	5000	2900	4400	3600	ND	2900	9.4	290	5.00

Surrogate Recovery									Limits
a,a,a-TFT(FID)	100%	92%	97%	95%	93%	86%	89%	99%	64-129
4-BFB(FID)	100%	99%	96%	93%	95%	106%	94%	95%	55-151
4-BFB(PID)	102%	102%	105%	100%	105%	111%	99%	97%	68-137
Dilution Factor	50	50	50	50	1	50	1	3	
Laboratory I.D.:	4131-01	4131-02	4131-03	4131-04	4131-05	4131-07	4131-08	4131-09	
Batch I.D.:	0507-13	0507-14	0507-15	0507-16	0507-34	0507-19	0508-09	0508-10	
Date Sampled:	05/02/96	05/02/96	05/02/96	05/02/96	05/02/96	05/03/96	05/03/96	05/03/96	
Date Analyzed:	05/07/96	05/07/96	05/07/96	05/07/96	05/08/96	05/07/96	05/08/96	05/08/96	

Concentration of samples expressed as ug/g (ppm).

PQL = Practical Quantitation Limit.

ND = Not Detected at or above the PQL.

< = Increased PQL due to sample dilution.

Volatiles Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Trap) is used for sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **ALASKA GASOLINE**

Laboratory I.D.: 4131-06W
Batch I.D.: 0507-22.D
Date Sampled: 05/02/96
Date Received: 05/06/96
Matrix: **Water**

Sample I.D.: **WASTE OIL
PIT WATER**
Date Analyzed: 05/07/96
Dilution: 1
Analyst: *ym*

Concentration of sample expressed as ug/L (ppb).

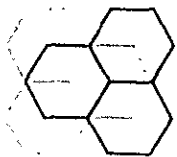
Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.
Benzene	ND	.5
Toluene	ND	.5
Ethylbenzene	ND	.5
Xylenes-Total	1.6	.5
TPH-Gasoline	1,300. *	50.

PQL = Practical Quantitation Limit.
ND = Not Detected at or above the PQL.

* Not a typical Gasoline pattern; possibly very aged Gasoline or Stoddard.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	97%	64-129
4-BFB(FID)	84%	55-151
4-BFB(PID)	93%	68-137

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Trap) is used for sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0507-01.D

Date Acquired: 05/07/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	104%	73-126
4-BFB(FID)	101%	67-146
4-BFB(PID)	101%	82-119

Volatiles Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0508-01.D

Date Acquired: 05/08/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	103%	73-126
4-BFB(FID)	106%	67-146
4-BFB(PID)	101%	82-119

Volatife Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



LABORATORY CONTROL SAMPLES

Method: VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Date Acquired: 05/07/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	40.	99%	82-113
Benzene	20.	20.	101%	84-113
Toluene	20.	20.	102%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	20.	100%	88-113
o-Xylene	20.	20.	102%	88-114
TPH-Gasoline	1,250.	1,359.	109%	77-130

Surrogates	LSC-8020M	Batch ID:	0507-04	
a,a,a-TFT-FID			100%	73-126
4-BFB-FID			102%	67-146
4-BFB-PID			103%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0507-05	
a,a,a-TFT-FID			96%	73-126
4-BFB-FID			124%	67-146
4-BFB-PID			102%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.



LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Acquired: 05/08/96

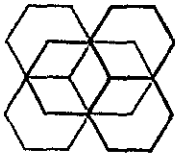
Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	21.	103%	84-113
Toluene	20.	21.	103%	90-110
Ethylbenzene	20.	21.	103%	89-112
m,p-Xylenes	20.	21.	105%	88-113
o-Xylene	20.	21.	107%	88-114
TPH-Gasoline	1,250.	1,314.	105%	77-130

Surrogates	LSC-8020M	Batch ID:	0508-04	
a,a,a-TFT-FID			97%	73-126
4-BFB-FID			102%	67-146
4-BFB-PID			107%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0508-05	
a,a,a-TFT-FID			92%	73-126
4-BFB-FID			121%	67-146
4-BFB-PID			105%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: 8010
 Laboratory Number: 4131-05
 Date Sampled: 05/02/96
 Date Received: 05/06/96
 Matrix: Soil

Sample I.D.: Waste Oil North End
 Project: Alaska Gas
 Dilution: 50
 Date Analyzed: 05/15/96
 Analyst: *fy*

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		50
75-01-4	Vinyl chloride	ND		50
74-83-9	Bromomethane	ND		50
75-00-3	Chloroethane	ND		50
75-69-4	Trichlorofluoromethane	ND		50
75-35-4	1,1-Dichloroethene	ND		50
76-13-1	Trichlorotrifluoroethane	ND		50
75-09-2	Methylene chloride	ND		50
156-60-5	trans-1,2-Dichloroethene	ND		50
75-35-3	1,1-Dichloroethane	ND		50
156-69-4	cis-1,2-Dichloroethene	ND		50
67-66-3	Chloroform	ND		50
71-55-6	1,1,1-Trichloroethane	ND		50
56-23-5	Carbon tetrachloride	ND		50
107-06-2	1,2-Dichloroethane	ND		50
79-01-6	Trichloroethene	ND		50
78-87-5	1,2-Dichloropropane	ND		50
75-27-4	Bromodichloromethane	ND		50
10061-01-5	cis-1,3-Dichloropropene	ND		50
10061-02-6	trans-1,3-dichloropropene	ND		50
79-00-5	1,1,2-Trichloroethane	ND		50
127-18-4	Tetrachloroethene	ND		50
124-48-1	Chlorodibromomethane	ND		50
108-90-7	Chlorobenzene	ND		50
106-93-4	1,2-Dibromoethane (EDB)	ND		50
75-25-2	Bromoform	ND		50
79-34-5	1,1,2,2-Tetrachloroethane	ND		50
541-73-1	1,3-Dichlorobenzene	ND		50
106-46-7	1,4-Dichlorobenzene	ND		50
95-50-1	1,2-Dichlorobenzene	ND		50

Surrogates	Recovery	Limits	PQL = Practical Quantitation Limit
3-Chloro-1-propene	93%	70-135%	ND = None Detected at or above the PQL
4-Chlorotoluene	101%	70-135%	

NOTE: Sample was diluted due to matrix interference.



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: 8010
 Laboratory Number: BLK0515B
 Date Sampled: N/A
 Date Received: N/A
 Matrix: Soil

Sample I.D.: Method Blank
 Project: Alaska Gas
 Dilution: 50
 Date Analyzed: 05/15/96
 Analyst: *fy*

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		50
75-01-4	Vinyl chloride	ND		50
74-83-9	Bromomethane	ND		50
75-00-3	Chloroethane	ND		50
75-69-4	Trichlorofluoromethane	ND		50
75-35-4	1,1-Dichloroethene	ND		50
76-13-1	Trichlorotrifluoroethane	ND		50
75-09-2	Methylene chloride	ND		50
156-60-5	trans-1,2-Dichloroethene	ND		50
75-35-3	1,1-Dichloroethane	ND		50
156-69-4	cis-1,2-Dichloroethene	ND		50
67-66-3	Chloroform	ND		50
71-55-6	1,1,1-Trichloroethane	ND		50
56-23-5	Carbon tetrachloride	ND		50
107-06-2	1,2-Dichloroethane	ND		50
79-01-6	Trichloroethene	ND		50
78-87-5	1,2-Dichloropropane	ND		50
75-27-4	Bromodichloromethane	ND		50
10061-01-5	cis-1,3-Dichloropropene	ND		50
10061-02-6	trans-1,3-dichloropropene	ND		50
79-00-5	1,1,2-Trichloroethane	ND		50
127-18-4	Tetrachloroethene	ND		50
124-48-1	Chlorodibromomethane	ND		50
108-90-7	Chlorobenzene	ND		50
106-93-4	1,2-Dibromoethane (EDB)	ND		50
75-25-2	Bromoform	ND		50
79-34-5	1,1,2,2-Tetrachloroethane	ND		50
541-73-1	1,3-Dichlorobenzene	ND		50
106-46-7	1,4-Dichlorobenzene	ND		50
95-50-1	1,2-Dichlorobenzene	ND		50

Surrogates	Recovery	Limits
3-Chloro-1-propene	91%	70-135%
4-Chlorotoluene	101%	70-135%

PQL = Practical Quantitation Limit
 ND = None Detected at or above the PQL



LABORATORY CONTROL SAMPLE

EPA Method: 8010
Laboratory Number: LCS0515A
Matrix: Water

Date Analyzed: 05/15/96
Analyst: *RS*

Concentration expressed as ug/L (ppb).

COMPOUND	Spike Added	LCS Conc	LCS Rec	%Rec	Limits
1,1-Dichloroethene	10	9.6	96%		75-125
1,2-Dichloroethane	10	9.7	97%		75-125
Trichloroethene	10	9.5	95%		75-125
Tetrachloroethene	10	10.6	106%		75-125
Chlorobenzene	10	9.2	92%		75-125
<u>Surrogates</u>					
3-Chloro-1-propene			96%		80-120
4-Chlorotoluene			97%		80-120

* = Values outside of QC limits.


Spike Recovery: 0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE

CHAIN OF CUSTODY RECORD

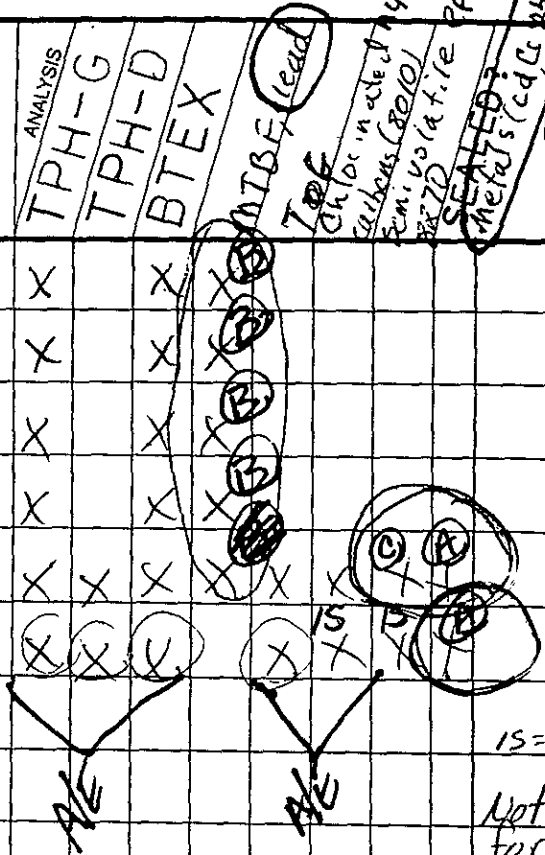
A/E 4131 (1/2)

5105

JOB NO.	PROJECT NAME <i>Alaska Gasoline</i>		NO. OF CONTAINERS	ANALYSIS	TPH-G	TPH-D	BTEX	MIBF (lead)	TOF	Chlor. in acet. 4 drop	Emuls. (20/1)	8270 volatile	8270 PPds	SEATED Metals (Cd, Cr, Ni, Zn)		PETROTEK P.O. Box 612317 San Jose, California 95161
LAB. NO.	SAMPLER (Signature) <i>[Signature]</i>															
DATE <i>5-2-96</i>	SAMPLE LOCATION/INFORMATION															

CHAIN OF CUSTODY RECORD

DTE	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS	TPH-G	TPH-D	BTEX	MIBF (lead)	TOF	Chlor. in acet. 4 drop	Emuls. (20/1)	8270 volatile	8270 PPds	SEATED Metals (Cd, Cr, Ni, Zn)	REMARKS
Pul	1	Plus ul west end	S 1	X	X	X	X	X	X						-01
Pul	2	Plus ul east end	S 1	X	X	X	X	X	X						-02
Sul	1	Super ul west end	S 1	X	X	X	X	X	X						-03
Sul	2	Super ul east end	S 1	X	X	X	X	X	X						-04
w/oil	1	waste oil North end	S 11	X	X	X	X	X	X						-05
w/oil	2	waste oil water samples waste oil pit	W 3	X	X	X	X	X	X						-06



IS = insol. sample

Not sufficient water sample for all requested Analyses. 5/7/96 Jim Fred will resample. No water left - brought soil (4131)

Sub-Sampled for lead on 5-7-96 1200 by J. Hesser

RELINQUISHED BY <i>[Signature]</i>	(Signature)	DATE/TIME <i>5-6-96</i>	RECEIVED BY <i>[Signature]</i>	(Signature)
RELINQUISHED BY <i>[Signature]</i>	(Signature)	DATE/TIME <i>5-10-96 8:30</i>	RECEIVED BY	(Signature)
RELINQUISHED BY	(Signature)	DATE/TIME	RECEIVED FOR LAB. BY <i>[Signature]</i>	(Signature) <i>5-10-96 0330</i>

LAB TO NOTE - Y/N → REMARKS


Inchape to do Metals on (5Loft) on (A) and lead on (B). 8270 on (C) PO # 4131 2 copies of report please

CHAIN OF CUSTODY RECORD

A/E 4131 (2/2)

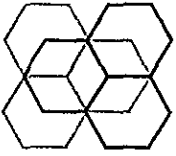
9106

CHAIN OF CUSTODY RECORD

JOB NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS	TPH-G	TPH-D	BTEX	SS/208F/EF SIL/SE/SE	MOTOR OIL RANGE ORGANICS by EPA	SEALED?	 PETROTEK P.O. Box 612317 San Jose, California 95161
LAB. NO.		SAMPLER (Signature)										
DATE	NO.	SAMPLE LOCATION/INFORMATION										
5-3-96		Alaska Gasoline										
		Anthony Newbery										
		Super unleaded Northside		1	X	X						Composite
		Super unleaded Eastside		1	X	X						"
		Super unleaded westside		1	X	X						" OTC
		Super unleaded southside		1	X	X						"
5-3-96		Waste oil northside		1	X	X	X	X				"
		Waste oil Eastside		1	X	X	X	X				" OTC
		Waste oil westside		1	X	X	X	X				"
		Waste oil southside		1	X	X	X	X				"
5-3-96		Plus unleaded northside		1	X	X						"
		Plus unleaded Eastside		1	X	X						"
		Plus unleaded westside		1	X	X						" OTC
		Plus unleaded southside		1	X	X						"

RELINQUISHED BY <i>[Signature]</i>	(Signature)	DATE/TIME 5/6/96	RECEIVED BY <i>[Signature]</i>	(Signature)
RELINQUISHED BY	(Signature)	DATE/TIME	RECEIVED BY	(Signature)
RELINQUISHED BY	(Signature)	DATE/TIME	RECEIVED FOR LAB. BY	(Signature)

LAB TO NOTE - Y/N → REMARKS



AN/EN Inc

Analytical & Environmental Chemistry

05/20/96

A/E4146

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID: **ALASKA GASOLINE**
Date Received by Lab: 05/10/96
Total Number of Samples: 8
Sample Matrix: **SOIL(7) & WATER(1)**

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline; Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.

Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7, 1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 11 pages.

Reviewed and Approved:


Laurie Glantz-Murphy, Laboratory Manager



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: 8010
 Laboratory Number: 4146-08
 Date Sampled: 05/09/96
 Date Received: 05/10/96
 Matrix: Water

Sample I.D.: W.O. Pit
 Project: Alaska Gas
 Dilution: 1
 Date Analyzed: 05/15/96
 Analyst: *dm*

Concentration of sample expressed as ug/L (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	0.8		0.5
75-01-4	Vinyl chloride	ND		0.5
74-83-9	Bromomethane	ND		0.5
75-00-3	Chloroethane	ND		0.5
75-69-4	Trichlorofluoromethane	ND		0.5
75-35-4	1,1-Dichloroethene	ND		0.5
76-13-1	Trichlorotrifluoroethane	ND		0.5
75-09-2	Methylene chloride	ND		0.5
156-60-5	trans-1,2-Dichloroethene	ND		0.5
75-35-3	1,1-Dichloroethane	ND		0.5
156-69-4	cis-1,2-Dichloroethene	ND		0.5
67-66-3	Chloroform	ND		0.5
71-55-6	1,1,1-Trichloroethane	ND		0.5
56-23-5	Carbon tetrachloride	ND		0.5
107-06-2	1,2-Dichloroethane	ND		0.5
79-01-6	Trichloroethene	ND		0.5
78-87-5	1,2-Dichloropropane	ND		0.5
75-27-4	Bromodichloromethane	ND		0.5
10061-01-5	cis-1,3-Dichloropropene	ND		0.5
10061-02-6	trans-1,3-dichloropropene	ND		0.5
79-00-5	1,1,2-Trichloroethane	ND		0.5
127-18-4	Tetrachloroethene	ND		0.5
124-48-1	Chlorodibromomethane	ND		0.5
108-90-7	Chlorobenzene	ND		0.5
106-93-4	1,2-Dibromoethane (EDB)	ND		0.5
75-25-2	Bromoform	ND		0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.5
541-73-1	1,3-Dichlorobenzene	ND		0.5
106-46-7	1,4-Dichlorobenzene	ND		0.5
95-50-1	1,2-Dichlorobenzene	ND		0.5

Surrogates	Recovery	Limits
3-Chloro-1-propene	101%	80-120%
4-Chlorotoluene	99%	80-120%

PQL = Practical Quantitation Limit
 ND = None Detected at or above the PQL



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
 Laboratory Number: **BLK0515A**
 Date Sampled: **N/A**
 Date Received: **N/A**
 Matrix: **Water**

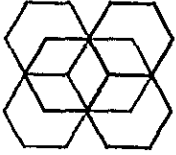
Sample I.D.: **Method Blank**
 Project: **Alaska Gas**
 Dilution: **1**
 Date Analyzed: **05/15/96**
 Analyst: *fy*

Concentration of sample expressed as ug/L (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		0.5
75-01-4	Vinyl chloride	ND		0.5
74-83-9	Bromomethane	ND		0.5
75-00-3	Chloroethane	ND		0.5
75-69-4	Trichlorofluoromethane	ND		0.5
75-35-4	1,1-Dichloroethene	ND		0.5
76-13-1	Trichlorotrifluoroethane	ND		0.5
75-09-2	Methylene chloride	ND		0.5
156-60-5	trans-1,2-Dichloroethene	ND		0.5
75-35-3	1,1-Dichloroethane	ND		0.5
156-69-4	cis-1,2-Dichloroethene	ND		0.5
67-66-3	Chloroform	ND		0.5
71-55-6	1,1,1-Trichloroethane	ND		0.5
56-23-5	Carbon tetrachloride	ND		0.5
107-06-2	1,2-Dichloroethane	ND		0.5
79-01-6	Trichloroethene	ND		0.5
78-87-5	1,2-Dichloropropane	ND		0.5
75-27-4	Bromodichloromethane	ND		0.5
10061-01-5	cis-1,3-Dichloropropene	ND		0.5
10061-02-6	trans-1,3-dichloropropene	ND		0.5
79-00-5	1,1,2-Trichloroethane	ND		0.5
127-18-4	Tetrachloroethene	ND		0.5
124-48-1	Chlorodibromomethane	ND		0.5
108-90-7	Chlorobenzene	ND		0.5
106-93-4	1,2-Dibromoethane (EDB)	ND		0.5
75-25-2	Bromoform	ND		0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.5
541-73-1	1,3-Dichlorobenzene	ND		0.5
106-46-7	1,4-Dichlorobenzene	ND		0.5
95-50-1	1,2-Dichlorobenzene	ND		0.5

Surrogates	Recovery	Limits
3-Chloro-1-propene	100%	80-120%
4-Chlorotoluene	97%	80-120%

PQL = Practical Quantitation Limit
 ND = None Detected at or above the PQL



LABORATORY CONTROL SAMPLE

EPA Method: 8010
Laboratory Number: LCS0515A
Matrix: Water

Date Analyzed: 05/15/96
Analyst: *my*

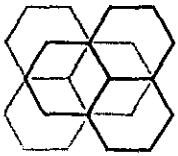
Concentration expressed as ug/L (ppb).

COMPOUND	Spike Added	LCS Conc	LCS Rec	%Rec Limits
1,1-Dichloroethene	10	9.6	96%	75-125
1,2-Dichloroethane	10	9.7	97%	75-125
Trichloroethene	10	9.5	95%	75-125
Tetrachloroethene	10	10.6	106%	75-125
Chlorobenzene	10	9.2	92%	75-125
<u>Surrogates</u>				
3-Chloro-1-propene			96%	80-120
4-Chlorotoluene			97%	80-120

* = Values outside of QC limits.

Spike Recovery: 0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **ALASKA GASOLINE**

Matrix: **Soil**
Date Received: 05/10/96
Analyst: *JM*

Sample I.D.:	Dispenser #1	Dispenser #2	Dispenser #3	Dispenser #5	Dispenser #6	Trench #7	Trench #8	PQL ppm
Methyl-tert-Butyl Ether	<40	<20	<8	<16	ND	<8	<5	.10
Benzene	63	<10	<4	<8	ND	<4	<2	.05
Toluene	370	20	<4	28	ND	5.7	5.1	.05
Ethylbenzene	120	9.7	<4	12	ND	<4	<2	.05
Xylenes-Total	680	280	20	200	ND	140	20	.05
TPH-Gasoline	6800	3700	1500	2600	ND	2100	1400	5.0

Surrogate Recovery								Limits
a,a,a-TFT(FID)	92%	89%	97%	89%	97%	95%	87%	64-129
4-BFB(FID)	98%	93%	93%	94%	101%	97%	95%	55-151
4-BFB(PID)	104%	105%	104%	101%	107%	110%	101%	68-137

Laboratory I.D.:	4146-01	4146-02	4146-03	4146-04	4146-05	4146-06	4146-07
Batch I.D.:	0514-06	0514-07	0514-08	0514-09	0513-22	0514-10	0513-28
Date Sampled:	05/09/96	05/09/96	05/09/96	05/09/96	05/09/96	05/09/96	05/09/96
Date Analyzed:	05/14/96	05/14/96	05/14/96	05/14/96	05/14/96	05/14/96	05/14/96

Concentration of samples expressed as ug/g (ppm)

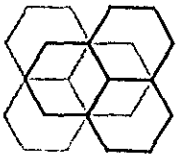
PQL = Practical Quantitation Limit.

ND = Not Detected at or above the PQL.

< = Increased PQL due to sample dilution.

Volatiles Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Trap) is used for sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.

SAMPLE RESULTS



AN / EN Inc

Analytical & Environmental Chemistry

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0513-01.D

Date Acquired: 05/13/96

Concentration of blank expressed as ug/L (ppb).

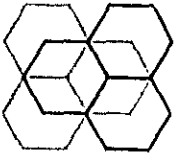
Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.

ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	105%	73-126
4-BFB(FID)	110%	67-146
4-BFB(PID)	104%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for: Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis. Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0514-01.D

Date Acquired: 05/14/96

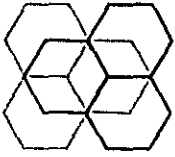
Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	100%	73-126
4-BFB(FID)	107%	67-146
4-BFB(PID)	106%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste, (SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.



LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Acquired: 05/13/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	20.	102%	84-113
Toluene	20.	21.	105%	90-110
Ethylbenzene	20.	21.	103%	89-112
m,p-Xylenes	20.	20.	102%	88-113
o-Xylene	20.	21.	105%	88-114
TPH-Gasoline	1,250.	1,360.	109%	77-130
Surrogates	LSC-8020M	Batch ID:	0513-04	
a,a,a-TFT-FID			100%	73-126
4-BFB-FID			104%	67-146
4-BFB-PID			105%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0513-05	
a,a,a-TFT-FID			92%	73-126
4-BFB-FID			125%	67-146
4-BFB-PID			108%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.



LABORATORY CONTROL SAMPLES

Method: VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

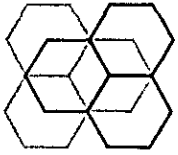
Date Acquired: 05/14/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	38.	94%	82-113
Benzene	20.	19.	97%	84-113
Toluene	20.	20.	100%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	20.	101%	88-113
o-Xylene	20.	21.	104%	88-114
TPH-Gasoline	1,250.	1,360.	109%	77-130
Surrogates	LSC-8020M	Batch ID:	0514-04	
a,a,a-TFT-FID			96%	73-126
4-BFB-FID			104%	67-146
4-BFB-PID			107%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0514-05	
a,a,a-TFT-FID			91%	73-126
4-BFB-FID			125%	67-146
4-BFB-PID			107%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.



VOLATILE AROMATICS - MATRIX SPIKE REPORT - SOIL

Client Project/I.D.: **ALASKA GASOLINE**

Laboratory I.D.: **4146-05S MS/MSD**

Batch I.D.: **0513-26.D**

Concentration of sample and spikes expressed as ug/g (ppm).

ANALYTE	Sample	Spike	Spike	Spiked	Spiked	%Rec. MS	%Rec. MDS	RPD	%Rec. Limits	RPD Limits
	Conc.	Added MS	Added MSD	Sample Conc. MS	Sample Conc. MDS					
Benzene	0.00	0.37	0.38	0.35	0.37	95%	98%	-3%	61-129	16
Toluene	0.00	0.37	0.38	0.37	0.39	100%	102%	-3%	61-123	18
Ethylbenzene	0.01	0.37	0.38	0.37	0.39	95%	98%	-2%	63-120	16
m,p-Xylenes	0.01	0.37	0.38	0.38	0.39	99%	100%	-1%	60-121	17
o-Xylene	0.01	0.37	0.38	0.38	0.40	99%	101%	-2%	73-121	11
Surrogates										
a,a,a-TFT(FID)	97%			92%	91%				64-129	
4-BFB(FID)	101%			100%	99%				55-151	
4-BFB(PID)	107%			110%	109%				68-137	

* = Values outside of QC limits.

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits.

Methanol extraction.

CHAIN OF CUSTODY RECORD

A/E 4146

0011

CHAIN OF CUSTODY RECORD

JOB NO.		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS					SEALED?	REMARKS
LAB. NO.		SAMPLER (Signature)			TPH-G	TPH-D	BTEX	8270	8010		
DATE		SAMPLE LOCATION/INFORMATION									
DTE	NO.										
5-9-96	#1	Dispenser #1	-01	1	✓	✓					Some Odor
5-9-96	#2	Dispenser #2	-02	1	✓	✓					Some Odor
5-9-96	#3	Dispenser #3	-03	1	✓	✓					No Odor
5-9-96	#5	Dispenser #5	-04	1	✓	✓					Some Odor
5-9-96	#6	Dispenser #6	-05	1	✓	✓					No Odor
5-9-96	#7	Trench #7	-06	1	✓	✓					Some Odor
5-9-96	#8	Trench #8	-01	1	✓	✓					Some Odor
5-9-96	9	waste oil pit	1 liter	1	✓	✓	✓	✓	✓		
"	10	" dup	1 liter	1	✓	✓	✓	✓	✓		Only 1 sample for 8270. (BTEX-GMS & Diesel was previously run on this sample. See A/E 4131)
"	11	"	0.6 40ml UOM	1	✓	✓	✓	✓	✓		
"	12	"	↓	1	✓	✓	✓	✓	✓		
"	13	"	↓	1	✓	✓	✓	✓	✓		
"				1	✓	✓	✓	✓	✓		

RELINQUISHED BY	(Signature)	DATE/TIME	RECEIVED BY	(Signature)	LAB TO NOTE - Y/N →	REMARKS
	<i>[Signature]</i>	5-10-96 8:30		<i>[Signature]</i>		Increase to due 8270 only Bill & report to AW/EN, Inc PO # 4146 2 copies of report please 5/10/96.
RELINQUISHED BY	(Signature)	DATE/TIME	RECEIVED BY	(Signature)		
	<i>[Signature]</i>	5/10/96 8:30				
RELINQUISHED BY	(Signature)	DATE/TIME	RECEIVED FOR LAB. BY	(Signature)		
			<i>[Signature]</i>	5/10/96 0830		



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