



ALCO  
HAZMAT  
94 MAY 20 PM 12: 04

May 16, 1994

5008.J11

Mr. Ken Kunaniec  
Air Quality Engineering Manager  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

**Re: Permit to Operate No. 11804  
Plant No. 9081  
Source No. 1  
Location: 1310 14th Street  
Oakland, California**

Dear Mr. Kunaniec:

Park Environmental Corporation (**Park**) has been retained by Nestle USA, Inc. (Nestle) to perform the petroleum hydrocarbon vapor extraction remediation at their facility at the above referenced location. **Park** has been operating the system following the guidelines set forth in the above referenced Permit to Operate (enclosed).

**Park** began operation of the first 600 cfm thermal oxidation (therm-ox) system on January 1, 1994 and shut the system down on January 6, 1994 due to mechanical difficulties. **Park** decided at that time to remove that 600 cfm therm-ox and replace it with a different unit. On February 9, 1994 the therm-ox system that is currently operating was started. On February 17, 1994 system influent and effluent vapor samples were collected in Tedlar bags in the presence of Mr. Jorge Franco with the BAAQMD.

The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA methods 8015 modified and 8020, respectively (sample results enclosed).

Based on the analytical results, system modifications were made to reduce outlet emissions. After the oxidizing bed was repacked, additional vapor samples were collected on April 13 and April 27, 1994 and submitted to the California State certified laboratory and analyzed for TPHg and BTEX (enclosed).

**Park** has prepared emission discharge calculations based on the three effluent sample analytical results from the above mentioned sample dates. The emission discharge calculations were based on the following formula:

Mr. Ken Kunaniec  
May 16, 1994  
Page Two

**Vapor Recovery Rate Formula**

$$V_r (\text{lb./hr.}) = (V_c) (Q) (2.24 \times 10^{-7})$$

where:  $V_r$  = vapor recovery rate (lb./hr.)  
 $V_c$  = vapor concentration (ppmv as gasoline)  
86.18 = assumed average molecular weight by vapor (lb./lb. -mole)  
 $Q$  = venting rate (SCF/hr.)

Please note that at no time was the therm-ox emitting greater than 0.6 pounds per day of benzene as specified under Condition #10420 Point 3 of the Permit to Operate.

Based on the analytical results for the vapor samples collected on April 27, 1994, **Park** has adjusted the influent concentrations to the remediation system to less than 3,000 ppmv as gasoline.

If you have any questions regarding this letter or the data enclosed, please contact us at our Rocklin office at 916/652-3861.

Sincerely,  
**Park Environmental Corporation**



Peter Frank, R.E.A.  
Project Geologist

PF:laa  
Enclosures

cc: Mr. Binayak Acharya, Nestle USA, Inc.  
Ms. Jennifer Eberle, Alameda County Health Care Services

## Discharge Calculations for February 17, 1994

### **Total Petroleum Hydrocarbons (TPH)**

$$V_r(\text{lb./hr}) = (150 \text{ ppmv}) (440 \text{ cfm} \times 60 \text{ minutes}) (2.24 \times 10^{-7})$$

$$\begin{aligned} V_r &= 3,960,000 \times 0.000000224 \\ V_r &= 0.88704 \text{ lb./hr.} \\ V_r &= 21.28 \text{ lb./day} \end{aligned}$$

### **Benzene**

$$V_r(\text{lb.hr.}) = (2.3 \text{ ppmv}) (440 \text{ cfm} \times 60 \text{ minutes}) (2.24 \times 10^{-7})$$

$$\begin{aligned} V_r &= 60,720 \times 0.000000224 \\ V_r &= 0.013 \\ V_r &= 0.326 \text{ lb./day} \end{aligned}$$

The maximum TPH discharge for the 600 cfm Thermal Oxidation Vapor Extraction System operating at 440 cfm was 21.28 lb./day.

The maximum benzene discharge for the 600 cfm Thermal Oxidation Vapor Extraction System operating at 440 cfm was 0.326 lb./day.

**Discharge Calculations for April 13, 1994**

**Total Petroleum Hydrocarbons (TPH)**

$$V_r \text{ (lb./hr.)} = (42 \text{ ppmv}) (440 \text{ cfm} \times 60 \text{ minutes}) (2.24 \times 10^{-7})$$

$$V_r = 1,108,800 \times 0.000000224$$

$$V_r = 0.24837 \text{ lb./hr.}$$

$$V_r = 5.96 \text{ lb./day}$$

**Benzene**

$$V_r \text{ (lb./hr.)} = (1.7 \text{ ppmv}) (440 \text{ cfm} \times 60 \text{ minutes}) (2.24 \times 10^{-7})$$

$$V_r = 44,880 \times 0.000000224$$

$$V_r = 0.0100 \text{ lb./hr.}$$

$$V_r = 0.241 \text{ lb./day}$$

The TPH discharge for the 600 cfm Thermal Oxidation Vapor Extraction System operating at 440 cfm was 5.96 lb./day.

The benzene discharge for the 600 cfm Thermal Oxidation Vapor Extraction System operating at 440 cfm was 0.241 lb./day.

## Discharge Calculations for April 27, 1994

### **Total Petroleum Hydrocarbons (TPH)**

$$V_r \text{ (lb./hr.)} = (78 \text{ ppmv}) (440 \text{ cfm} \times 60 \text{ minutes}) (2.24 \times 10^{-7})$$

$$V_r = 2,059,200 \times 0.000000224$$

$$V_r = 0.46126 \text{ lb./hr.}$$

$$V_r = 11.07 \text{ lb./day}$$

### **Benzene**

$$V_r \text{ (lb./hr.)} = (2.5 \text{ ppmv}) (440 \text{ cfm} \times 60 \text{ minutes}) (2.24 \times 10^{-7})$$

$$V_r = 52,800 \times 0.000000224$$

$$V_r = 0.01182 \text{ lb./hr.}$$

$$V_r = 0.283 \text{ lb./day}$$

The maximum TPH discharge for the 600 cfm Thermal Oxidation Vapor Extraction System operating at 440 cfm was 11.07 lb./day.

The benzene discharge for the 600 cfm Thermal Oxidation Vapor Extraction System operating at 440 cfm was 0.212 lb./day.



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

November 24, 1993

# COPY

Peter Frank  
Park Environmental Corp.  
2140 Professional Drive, Suite 130  
Roseville, CA 95661

Application Number: 11804  
Equipment Location:  
1310 14th St.  
Oakland, CA

Gentlemen:

Attached is your Permit to Operate the following:

- S-1 Soil Vapor Extraction System consisting of a 600 cfm max capacity vacuum blower, and ancillary equipment, abated by A-1, Retox 600 regenerative Thermal Oxidizer, 600 cfm**

All Permits should be posted in a clearly visible and accessible place on or near the equipment to be operated, or kept available for inspection at any time.

Operation of this equipment in violation of District Regulations or any permit conditions is subject to penalty action.

In the absence of specific permit conditions to the contrary, the throughputs, fuel and material consumptions, capacities and hours of operation described in your permit application will be considered maximum allowable limits. A new permit will be required before any increase in these parameters, or change in raw material handled may be made.

Please include your permit number with any correspondence with the District. If you have any questions on this matter, please call **Robert E. Cave**, at (415) 749-5114.

Very truly yours,

Milton Feldstein  
Air Pollution Control Officer

by   
Permit Services Division

JAS:REC:sap  
Attachments



# BAY AREA AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE No. 11804

PLANT No. 9081

SOURCE No. 1

## Park Environmental Corporation

IS HEREBY GRANTED A PERMIT TO OPERATE THE FOLLOWING EQUIPMENT:

*Soil Vapor Extraction System consisting of a 600 cfm max capacity vacuum blower, and ancillary equipment, abated by A-1, Retox 600 Regenerative Thermal Oxidizer, 600 cfm*

LOCATED AT: 1310 14th Street  
Oakland, CA

CONDITIONS:  YES  NO *(All permit conditions must be complied with at all times \*)*

If YES, See Attached Condition No. 10420

MILTON FELDSTEIN  
AIR POLLUTION CONTROL OFFICER

Date November 24, 1993

By John R. Swanson  
Permit Services Division

EXPIRATION DATE November 24, 1994

THIS PERMIT DOES NOT AUTHORIZE ANY VIOLATION OF THE RULES AND REGULATIONS OF THE BAAQMD OR THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON WITHOUT APPROVAL FROM THE DISTRICT.

\* *Compliance with conditions contained in this permit does not mean that the permittee is currently in compliance with District Rules and Regulations. It is the responsibility of the permittee to have knowledge of and be in compliance with all District Rules and Regulations.*

1. Precursor Organic Compound (POC) emissions from Source S-1 shall be abated by either Abatement device A-1, Thermal Oxidizer during all periods of operation.
2. The POC destruction efficiency of Abatement device A-1 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 3000 ppmv (measured as C1). For inlet concentrations below 3000 ppmv and greater than or equal to 1000 ppmv, a minimum destruction efficiency of 97% shall be maintained. For inlet concentrations below 1000 ppmv, a minimum destruction efficiency of 90% shall be maintained. The minimum destruction efficiency of 90% shall be waived if total emissions from the operation are less than 1 pound per day POC and benzene emissions are less than 0.02 pounds per day.
3. A-1 shall be properly maintained and kept in good operating condition at all times. Benzene emissions shall not exceed 0.6 pounds per day. The minimum operating temperature of A-1 shall not be less than 1400 degrees Fahrenheit.
4. To determine compliance with Condition Number 3, A-1 shall be equipped with continuous measuring and temperature recording instrumentation consisting of at least 1 temperature probe in A-1 and at least one recording device, which will continuously record temperature.
5. The measuring and recording instrumentation to be installed and the specific placement within A-1 in condition number 4, is subject to the prior approval of the Source Test Section of the District Technical Division.
6. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.
7. Within ten days of startup, the operator of this source, shall conduct an efficiency test to determine the weight percent reduction of Precursor Organic Compound (POC) emissions through A-1, as well as the Benzene emission rate. As part of this test the POC inlet and outlet concentrations of A-1, and the benzene outlet concentration shall be determined. These results shall be used to calculate the POC destruction efficiency and the Benzene emission rate in pounds per day. All test results and calculations shall be provided to the District within 30 days after testing has occurred. All source test methods used shall be subject to the prior approval of the Source Test Section of the District Technical Division.
8. The operator of this source shall maintain the following records for each day of operation of the source:
  - a. Hours and time of operation.
  - b. Each emission test, analysis or monitoring results logged in for the day of operation they were taken.

Such records shall be retained and made available for inspection by the District for two years following the



9. Any exceedance of conditions number 2 and/or 3 shall be reported to the Permits Division with the log as well as the corrective action taken. In addition, an exceedance of conditions number 2 and/or 3 shall be submitted to the District Enforcement Section at the time it occurs. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.
10. Upon final completion of the remediation project, the operator of Source S-1 shall notify the district within two weeks of decommissioning the operation.



RECEIVED  
MAR 01 1994

Ans'd.....

Date: February 22, 1994

**Park Environmental Corporation**  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677  
Attn: Mr. Peter Frank

Client Project Number: 5008-J8  
Client Project Name: N/A  
Date Sampled: Feb-17-94  
Date Samples Received: Feb-18-94  
Sierra Project Number: SP-979-94  
Sierra Client Number: 10000-92

Enclosed with this letter is the report on the chemo-physical analysis of samples from the project references shown above.

The samples were received by Sierra in a chilled state, intact, and with the chain of custody record attached.

Note that N.D. means not detected at the appropriate reporting limit. The reporting limit is adjusted to reflect the dilution factor of the sample. The reporting limit is expressed in such cases in parentheses to the right of reported value. The detection limit for values without such a designation appears to the right of or at the bottom of the same page.

  
\_\_\_\_\_  
Reviewed

  
\_\_\_\_\_  
Approved

The contents of this report pertain only to the samples investigated and do not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Unauthorized reproduction of this report or use of this laboratory's name for advertising or publicity purposes is strictly prohibited.

1525 ENDEAVOR PLACE  
SUITE D  
ANAHEIM, CA 92801

TEL: 714.758.9988  
FAX: 714.758.9692

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-979-94  
Client Project No. 5008-J8  
Client Project:  
N/A

Date Sampled: .02/17/94  
Date Received: .02/18/94  
Date Prepared: .02/18/94  
Date Analyzed: .02/18/94  
Analyst: DM

Sample Preparation: EPA Method 5030

Sample Analysis: 8015-Modified (TPH as Gasoline-CADHS LUFT)  
and EPA 8020 (BTEX) in series

Report Date: .02/22/94

Sample Type: Vapor

Client Sample I.D.	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
INF-1-P	990	240	14	4.4	30	8.0	8.2	1.9	54	12
EFF-1-P	600	150	7.3	2.3	19	5.0	5.2	1.2	33	7.6

	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Detection Limit:	100	24	1	0.31	1	0.27	1	0.23	1	0.23

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-979-94  
Client Project No. 5008-18  
Client Project:  
N/A

Date Sampled: .02/17/94  
Date Received: .02/18/94  
Date Prepared: .02/18/94  
Date Analyzed: .02/18/94

Report Date: .02/22/94

### Sample Duplicate Report

Client Sample I.D. VES-INF (SP-980-94)

<u>Parameter</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
TPH as Gasoline	EPA 8015-M	5

<u>Compound</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
Benzene	EPA 8020 (BTEX)	0
Toluene	EPA 8020 (BTEX)	10
Ethylbenzene	EPA 8020 (BTEX)	0
Xylenes (Total)	EPA 8020 (BTEX)	7

Quality Control Reference Number: G001-021894-G1B00032-017-018

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-979-94  
Client Project No. 5008-J8  
Client Project:  
N/A

Date Sampled: .02/17/94  
Date Received: .02/18/94  
Date Prepared: .02/18/94  
Date Analyzed: .02/18/94

Report Date: .02/22/94

### Surrogate Summary Report

<u>Client Sample I.D.</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>SI</u>	<u>(Range)</u>
INF-1-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	95	(50-130)
EFF-1-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	95	(50-130)

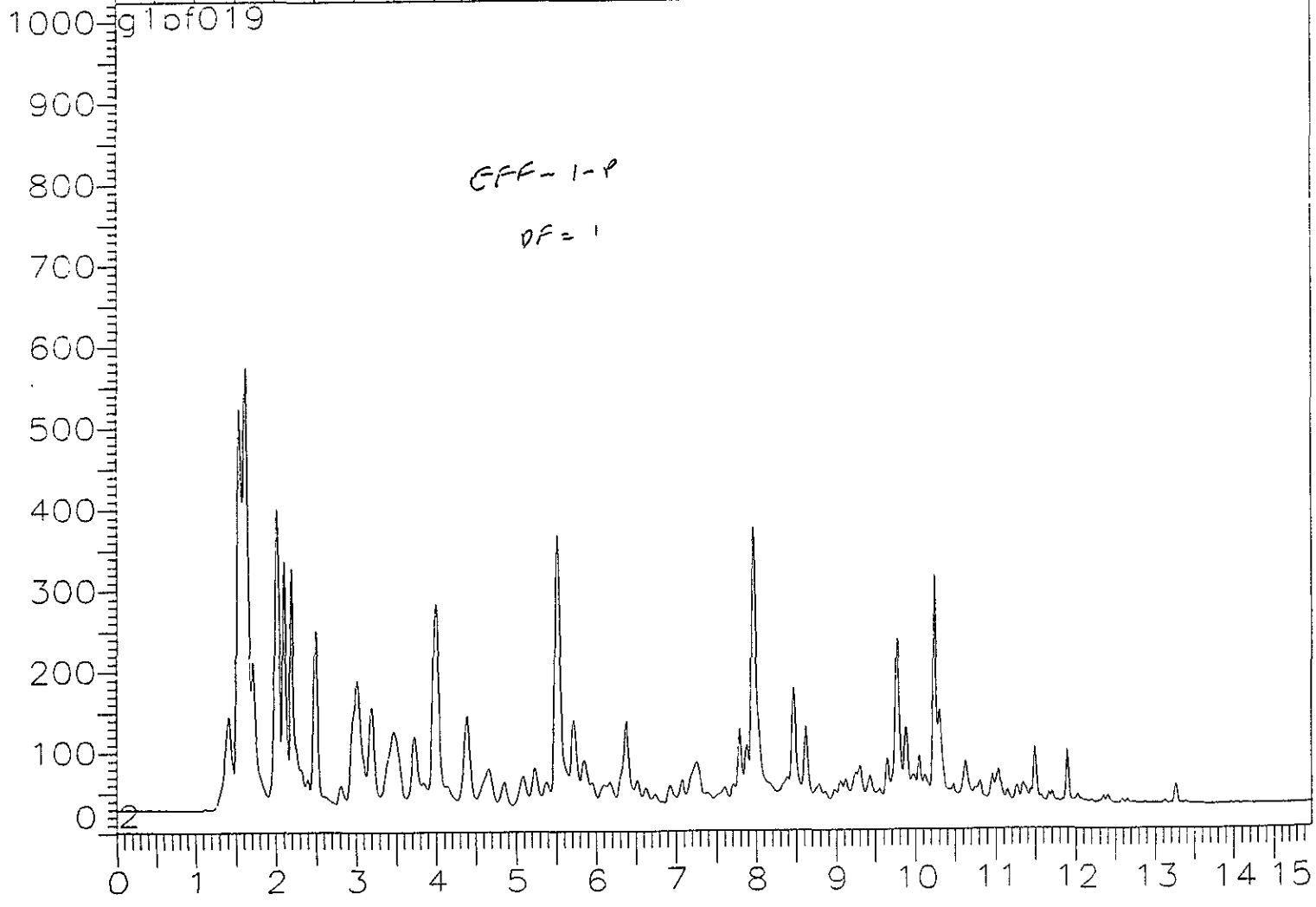
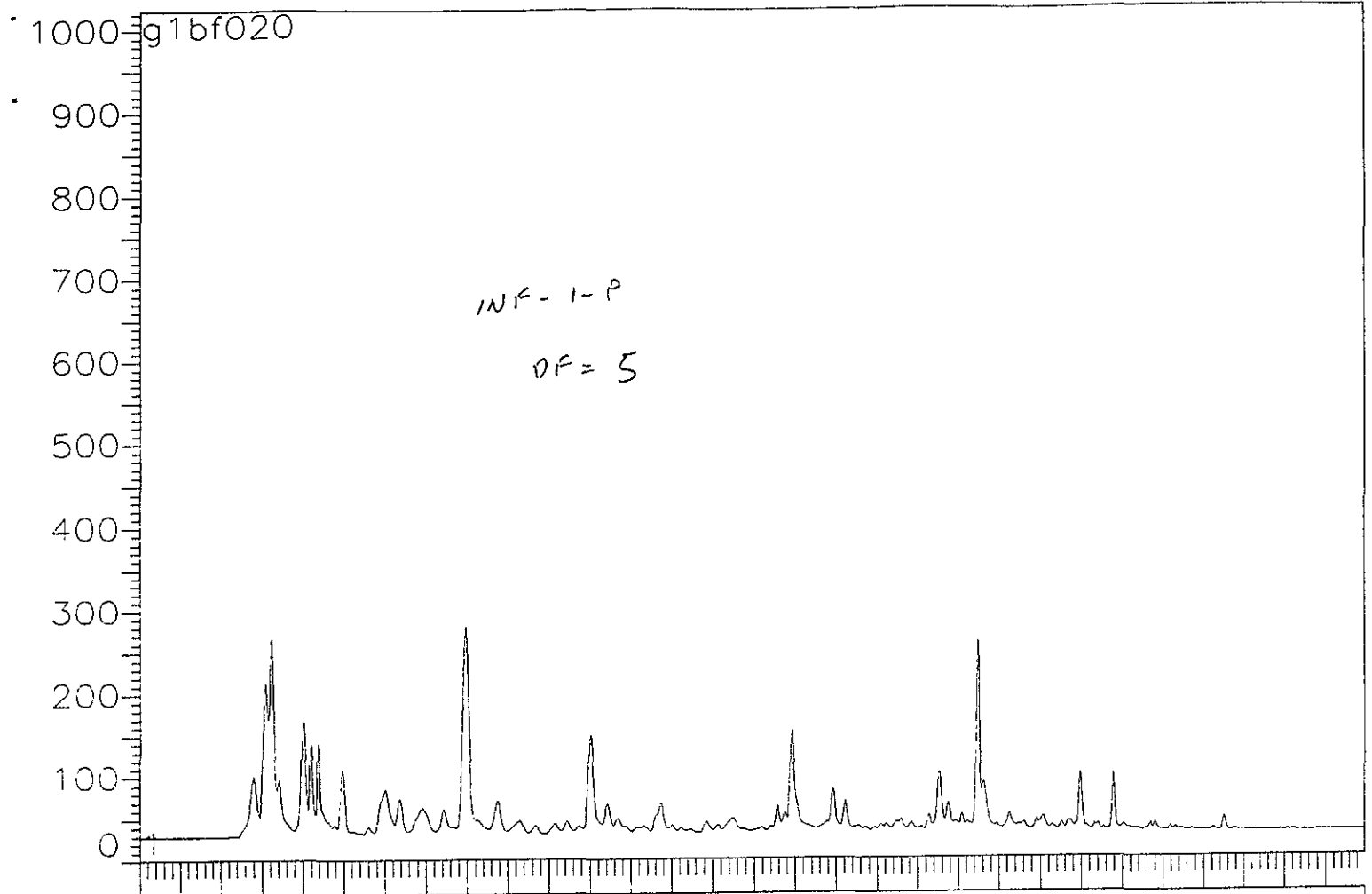
Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92 Date Sampled: .02/17/94  
Sierra Project No. SP-979-94 Date Received: .02/18/94  
Client Project No. 5008-J8 Date Prepared: .02/18/94  
Client Project: Date Analyzed: .02/18/94  
N/A

Report Date: .02/22/94

### Laboratory Control Sample Report

<u>Parameter</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
TPH as Gasoline	EPA 8015-M	90	(50-150)
	Quality Control Reference Number:	G001-021894-G1B00032-015	
<u>Compound</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
Benzene	EPA 8020 (BTEX)	95	(28-167)
Toluene	EPA 8020 (BTEX)	97	(41-138)
Ethylbenzene	EPA 8020 (BTEX)	94	(38-150)
Xylenes (Total)	EPA 8020 (BTEX)	97	(35-146)
	Quality Control Reference Number:	G001-021894-G1B00032-015	





SIERRA LABORATORIES

TEL: 714 • 758 • 9988

FAX: 714 • 758 • 9692

1525 Endeavour Place • Suite D • Anaheim, CA • 92801

# CHAIN OF CUSTODY RECORD

Nº 1000814

Date: 2/17/94 Page 1 of 1

Lab Project No.: SP-979-94

Client: Park Environmental  
 Client Address: 4231 Pacific Street Suite 7  
Rocklin, Ca 95677  
 Client Tel. No.: 916-652-3861  
 Client Fax No.: 916-652-4195  
 Client Proj. Mgr.: Peter Frank

Client Proj. Number/Proj. Name:

5008-J8

Turn Around Time Requested:

Immediate Attention  
 Rush 24-48 hours  
 Rush 72-96 hours  
 Normal  
 Mobile

## Analyses Requested

<input checked="" type="checkbox"/>	8015 Modified (TPH as Gasolene - CADHS LUFT) and EPA 8020 (Aromatic Volatiles - BTX) in Series
<input checked="" type="checkbox"/>	8015-Modified (TPH as Gasolene - CADHS LUFT)
<input type="checkbox"/>	8015 Modified (TPH as Diesel - CADHS LUFT)
<input type="checkbox"/>	EPA 8020 (Volatile Aromatics - BTX)
<input type="checkbox"/>	EPA 8010 (Volatile Halogenated)
<input type="checkbox"/>	EPA 8010/8020 (Volatile Aromatics & Halogenated)
<input type="checkbox"/>	EPA 4181 (TRPH)
<input type="checkbox"/>	Total Lead (EPA method EPA 721 (Clinker))
<input type="checkbox"/>	Organic Lead (CADHS LUFT)

Client Sample No.	Date	Time	Matrix	Preservatives	Container Type	No. of Containers
<u>INF-1-D</u>	<u>2/17/94</u>	<u>1:30 PM</u>	<u>Vapor</u>	<u>None</u>	<u>Tedlar</u>	<u>2</u>
<u>EFC-1-D</u>	<u>2/17/94</u>	<u>1:30 PM</u>	<u>Vapor</u>	<u>None</u>	<u>Tedlar</u>	<u>2</u>

Comments

1 Sampler Signature: Howard Fold Shipped Via UPS-OVERNIGHT  
 Company: Park Environmental (Carrier/Waybill No.) 0170 5973 212

2 Relinquished By: Howard Fold Date: 2/17/94 Received By: Sub K Date: 2/18/94  
 Company: Park Environmental Time: 2:30 PM Company: SIERRA LABS Time: 0855

3 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_ Time: \_\_\_\_\_ Company: \_\_\_\_\_ Time: \_\_\_\_\_

4 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Company: \_\_\_\_\_ Time: \_\_\_\_\_ Company: \_\_\_\_\_ Time: \_\_\_\_\_

Total Number of Containers Submitted to Laboratory: 4

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA'S Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT

Total Number of Containers Received by Laboratory: \_\_\_\_\_

Sample Disposal:  
 Return to Client  
 Lab Disposal  
 Archive \_\_\_\_\_ mos.  
 Other \_\_\_\_\_

FOR LABORATORY USE ONLY - Sample Receipt Conditions:

Chilled  Appropriate Sample Container  
 Intact  Appropriate Preservatives  
 Sample Seals  Other \_\_\_\_\_  
 Properly Labeled  Other \_\_\_\_\_

Special Instructions:





RECEIVED MAY 13 1994

Date: April 15, 1994

**Park Environmental Corporation**  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677  
Attn: Mr. Peter Frank

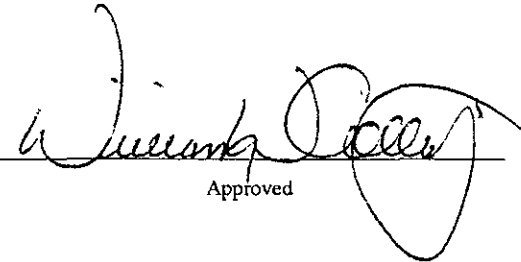
Client Project Number: 5008-J9  
Client Project Name: N/A  
Date Sampled: Apr-13-94  
Date Samples Received: Apr-15-94  
Sierra Project Number: SP-1072-94  
Sierra Client Number: 10000-92

Enclosed with this letter is the report on the chemo-physical analysis of samples from the project references shown above.

The samples were received by Sierra intact, and with the chain of custody record attached.

Note that N.D. means not detected at the appropriate reporting limit. The reporting limit is adjusted to reflect the dilution factor of the sample. The reporting limit is expressed in such cases in parentheses to the right of reported value. The detection limit for values without such a designation appears to the right of or at the bottom of the same page.

  
\_\_\_\_\_  
Reviewed

  
\_\_\_\_\_  
Approved

The contents of this report pertain only to the samples investigated and do not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Unauthorized reproduction of this report or use of this laboratory's name for advertising or publicity purposes is strictly prohibited.

1325 ENDEAVOR PLACE  
SUITE D  
ANAHEIM, CA 92801

TEL: 714.758.9988  
FAX: 714.758.9692

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-1072-94  
Client Project No. 5008-19  
Client Project:  
N/A

Date Sampled: .04/13/94  
Date Received: .04/15/94  
Date Prepared: .04/15/94  
Date Analyzed: .04/15/94  
Analyst: DM

Sample Preparation: EPA Method 5030

Sample Analysis: 8015-Modified (TPH as Gasoline-CADHS LUFT)  
and EPA 8020 (BTEX) in series

Report Date: .04/15/94

Sample Type: Vapor

Client Sample I.D.	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Influent-2-P	2300	560	74	23	130	34	25	5.8	150	34
Effluent-2-P	170	42	5.5	1.7	10	2.7	2.2	0.51	13	3.0

	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Detection Limit:	100	24	1	0.31	1	0.27	1	0.23	1	0.23

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-1072-94  
Client Project No. 5006-12  
Client Project:  
N/A

Date Sampled: .04/13/94  
Date Received: .04/15/94  
Date Prepared: .04/15/94  
Date Analyzed: .04/15/94  
Analyst: DM

Report Date: .04/15/94

### Sample Duplicate Report

Client Sample I.D. INF-VES (SP-1069-94)

<u>Parameter</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
TPH as Gasoline	EPA 8015-M	2

<u>Compound</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
Benzene	EPA 8020 (BTEX)	0
Toluene	EPA 8020 (BTEX)	5
Ethylbenzene	EPA 8020 (BTEX)	10
Xylenes (Total)	EPA 8020 (BTEX)	9

Quality Control Reference Number: G001-041594-G1B00035-167-168

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-1072-94  
Client Project No. 5006-J2  
Client Project:  
N/A

Date Sampled: .04/13/94  
Date Received: .04/15/94  
Date Prepared: .04/15/94  
Date Analyzed: .04/15/94  
Analyst: DM

Report Date: .04/15/94

### Surrogate Summary Report

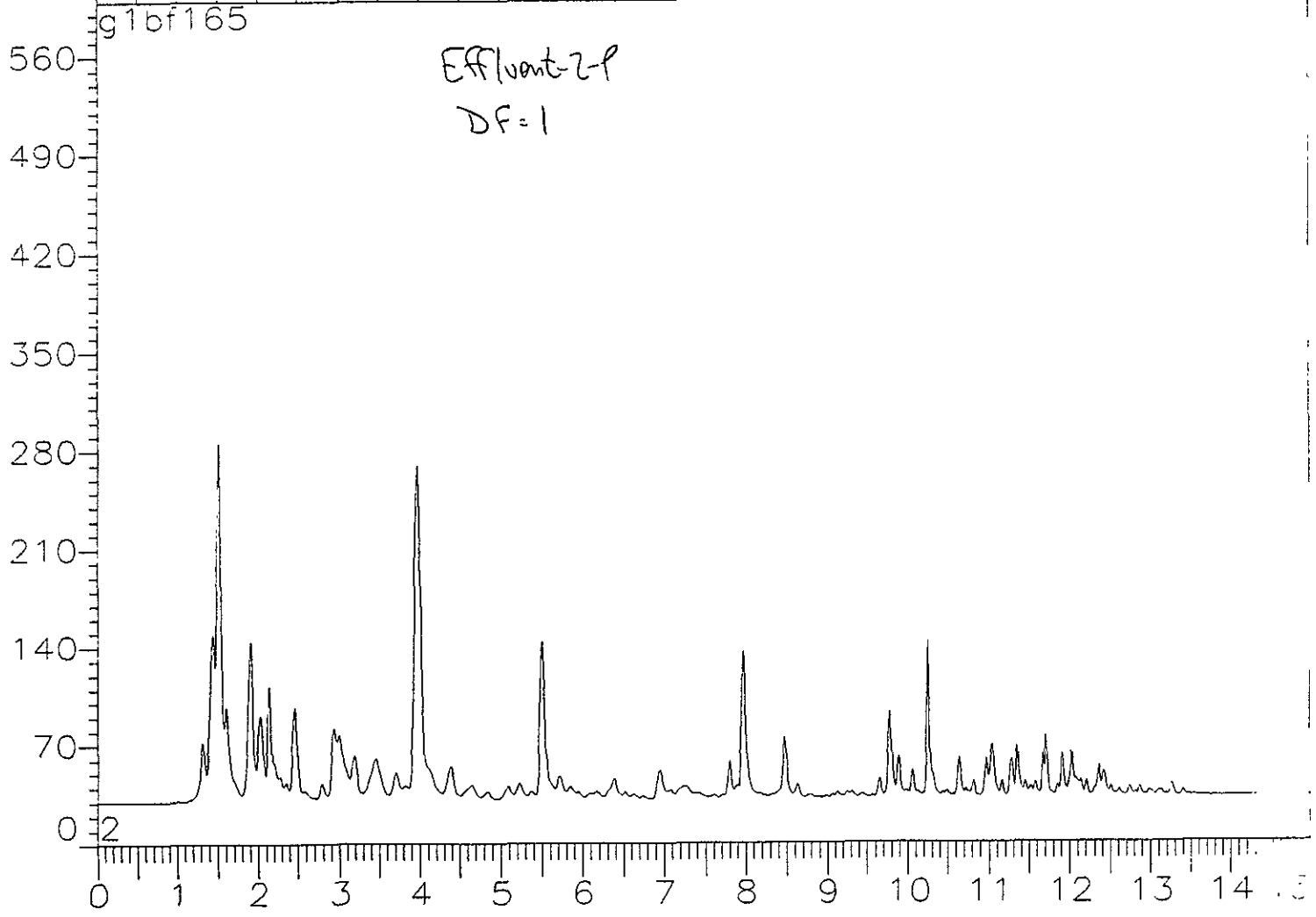
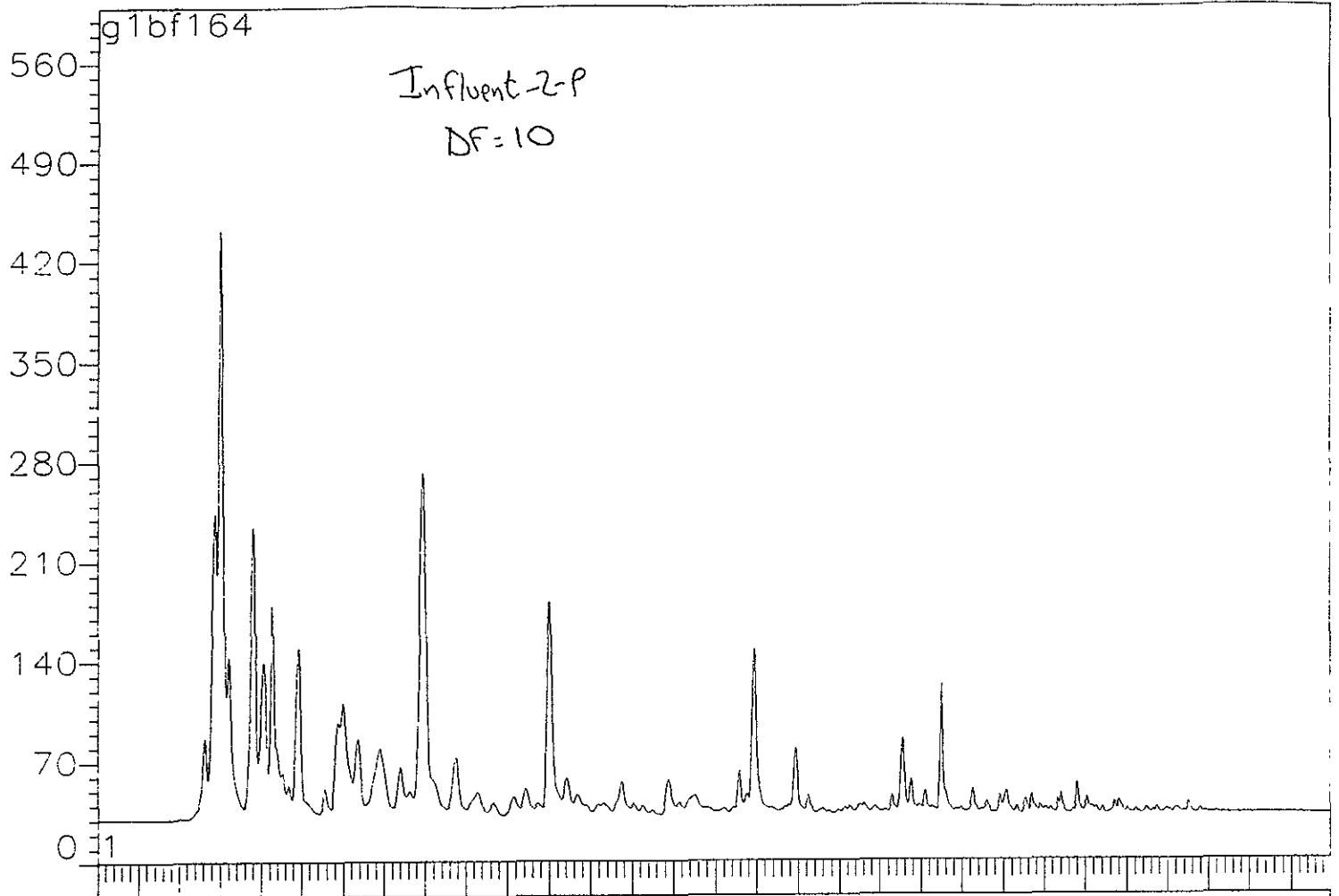
<u>Client Sample I.D.</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>S1</u>	<u>(Range)</u>
Influent-2-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	101	(50-130)
Effluent-2-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	98	(50-130)

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No.	10000-92	Date Sampled:	.04/13/94
Sierra Project No.	SP-1072-94	Date Received:	.04/15/94
Client Project No.	5006-J2	Date Prepared:	.04/15/94
Client Project:		Date Analyzed:	.04/15/94
N/A		Analyst:	DM
		Report Date:	.04/15/94

### Laboratory Control Sample Report

<u>Parameter</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
TPH as Gasoline	EPA 8015-M	94	(50-150)
	Quality Control Reference Number:	G001-041594-G1B00035-160	
<u>Compound</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
Benzene	EPA 8020 (BTEX)	103	(28-167)
Toluene	EPA 8020 (BTEX)	104	(41-138)
Ethylbenzene	EPA 8020 (BTEX)	103	(38-150)
Xylenes (Total)	EPA 8020 (BTEX)	104	(35-146)
	Quality Control Reference Number:	G001-041594-G1B00035-160	





SIERRA LABORATORIES

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1525 Endeavour Place • Suite D • Anaheim, CA • 92801

CHAIN OF CUSTODY RECORD

No: 1000810

Date: 4/13/94 Page 1 of 1

Lab Project No: SP-1072-94

Client: Park Environmental

Client Proj. Number/Proj. Name:

Client Address: 4231 Pacific Street, Suite 7  
Rocklin, Ca 95677

5008-19

Client Tel. No.: 916-652-3861

Client Fax No.: 916-652-4195

Client Proj. Mgr.: Peter Frank

Turn Around Time Requested:

Immediate Attention

Rush 24-48 hours

Rush 72-96 hours

Normal

Mobile

Analyses Requested

8015 Modified (TPH as Gasoline - CADHS LUFT); and EPA 8020 (Aromatic Volatiles - BTEX) in Solids	8015 Modified (TPH as Gasoline - CADHS LUFT)	8015 Modified (TPH as Diesel - CADHS LUFT)	EPA 8020 (Volatiles - Aromatics - BTEX)	EPA 8010 (Volatiles - Halogenated)	EPA 8010/8020 (Volatiles - Aromatics & Halogenated)	EPA 418.1 (TRPH)	Total Lead - EPA 8210 or EPA 7251 (Lead only)	Organic Lead (CADHS LUFT)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							

Client Sample No.	Date	Time	Matrix	Preservatives	Container Type	No. of Containers	Comments
Influent - 2 - P	4/13/94		Vapor	None	Tedlar	1	
Effluent - 2 - P	4/13/94		Vapor	None	Tedlar	1	

1 Sampler Signature: Howard Hold	Shipped Via: Airborne Express		2	Total Number of Containers Submitted to Laboratory	Sample Disposal: <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Lab Disposal <input type="checkbox"/> Archive ___ mos. <input type="checkbox"/> Other _____
Company: Park Environmental	(Carrier/Waybill No) 111758				
2 Relinquished By: Howard Hold	Date: 4/14/94	Received By: [Signature]	2	Total Number of Containers Received by Laboratory	FOR LABORATORY USE ONLY - Sample Receipt Conditions: <input type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seals <input checked="" type="checkbox"/> Properly Labeled
Company: Park Environmental	Time: 2:30 PM	Company: SIERRA LABS			
3 Relinquished By:	Date:	Received By:	Date:		
Company:	Time:	Company:	Time:		
4 Relinquished By:	Date:	Received By:	Date:		
Company:	Time:	Company:	Time:		

Special Instructions: Price per previous billing



Date: May 17, 1994

**Park Environmental Corporation**  
4231 Pacific Street, Suite 7  
Rocklin, California 95677  
Attn: Mr. Peter Frank

Client Project Number: 5008-J9  
Client Project Name: N/A  
Date Sampled: Apr-27-94  
Date Samples Received: Apr-29-94  
Sierra Project Number: 9404-114  
Sierra Client Number: 10000-92

Enclosed with this letter is the report on the chemo-physical analysis of samples from the project references shown above.

The samples were received by Sierra intact, and with the chain of custody record attached.

Note that N.D. means not detected at the appropriate reporting limit. The reporting limit is adjusted to reflect the dilution factor of the sample. The reporting limit is expressed in such cases in parentheses to the right of reported value. The detection limit for values without such a designation appears to the right of or at the bottom of the same page.

Reviewed

Approved

The contents of this report pertain only to the samples investigated and do not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Unauthorized reproduction of this report or use of this laboratory's name for advertising or publicity purposes is strictly prohibited.

1525 ENDEAVOR PLACE  
SUITE D  
ANAHEIM, CA 92801

TEL: 714.758.9988  
FAX: 714.758.9692



<b>Park Environmental Corporation</b> 4231 Pacific Street, Suite 7 Rocklin, California 95677	<b>Sierra Client No.</b> 10000-92 <b>Sierra Project No.</b> 9404-114 <b>Client Project No.</b> 5008-J9 <b>Client Project:</b> N/A	<b>Date Sampled:</b> .04/27/94 <b>Date Received:</b> .04/29/94 <b>Date Prepared:</b> .05/02/94 <b>Date Analyzed:</b> .05/02/94
<b>Sample Preparation:</b> EPA Method 5030 <b>Sample Analysis:</b> 8015-Modified (TPH as Gasoline-CADHS LUFT) and EPA 8020 (BTEX) in series		<b>Report Date:</b> .05/17/94

Sample Type: Vapor

Client Sample I.D.	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Influent-3-P	13000	3100	160	52	310	83	27	6	250	56
Effluent-3-P	300	73	5	2	7	2	ND	ND	7	2

	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
<b>Detection Limit:</b>	100	24	1	0.31	1	0.27	1	0.23	1	0.23

<b>Park Environmental Corporation</b> <b>4231 Pacific Street, Suite 7</b> <b>Rocklin, California 95677</b>	<b>Sierra Client No.</b>	<b>10000-92</b>	<b>Date Sampled:</b>	<b>.04/27/94</b>
	<b>Sierra Project No.</b>	<b>9404-114</b>	<b>Date Received:</b>	<b>.04/29/94</b>
	<b>Client Project No.</b>	<b>5008-J9</b>	<b>Date Prepared:</b>	<b>.05/02/94</b>
	<b>Client Project:</b>	<b>N/A</b>	<b>Date Analyzed:</b>	<b>.05/02/94</b>
			<b>Report Date:</b>	<b>.05/17/94</b>

### Surrogate Summary Report

<u>Client Sample I.D.</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>SI</u>	<u>(Range)</u>
<b>Influent-3-P</b>	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	<b>160</b>	<b>(90-160)</b>
<b>Effluent-3-P</b>	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	<b>130</b>	<b>(90-160)</b>



SIERRA LABORATORIES

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1525 Endeavour Place • Suite D • Anaheim, CA • 92801

CHAIN OF CUSTODY RECORD

No 1000817

Date: 4/27/94 Page 1 of 1

Lab Project No.:

Client: Park Environmental  
Client Address: 4231 Pacific Street Suite 7  
Rocklin, Ca 95671

Client Proj. Number/Proj. Name:  
9404-114  
5008-39

Analyses Requested

<input checked="" type="checkbox"/> 1018-10180 (TPH as Total Oil) - CADMS LUMFT	<input type="checkbox"/>
<input checked="" type="checkbox"/> 1018-10180 (TPH as Total Oil) - CADMS LUMFT	<input type="checkbox"/>
<input type="checkbox"/> EPA 808 (Volatile Aromatics) - BTUQ	<input type="checkbox"/>
<input type="checkbox"/> EPA 808 (Volatile Aromatics) - BTUQ	<input type="checkbox"/>
<input type="checkbox"/> EPA 808 (Volatile Aromatics) - BTUQ	<input type="checkbox"/>
<input type="checkbox"/> EPA 808 (Volatile Aromatics) - BTUQ	<input type="checkbox"/>
<input type="checkbox"/> EPA 421 (TPH as Total Oil) - CADMS LUMFT	<input type="checkbox"/>
<input type="checkbox"/> Total Lead - EPA 801 (As per EPA Method 801.1) (Cd, Cr, Ni, Pb)	<input type="checkbox"/>
<input type="checkbox"/> Organic Lead (CADMS LUMFT)	<input type="checkbox"/>

SENT TO  
TRUESDALE

Turn Around Time Requested:

Immediate Attention

Rush 24-48 hours

Rush 72-96 hours

Normal

Other:

Client Tel. No.: 916-652-3861

Client Fax No.: 916-652-4195

Client Proj. Mgr.: Peter Frank

Client Sample No.	Date	Time	Matrix	Preservatives	Container Type	No. of Containers	Comments
Influent-3-P	4/27/94		Vapor	None	Tedlar	2	5562
Effluent-3-P	4/27/94		Vapor	None	Tedlar	2	5563

1. Shipped Via: Airborne Express  
 Company: Park Environmental  
 (Carrier/Waybill No.) 2011029914

2. Relinquished By: Howard Held  
 Date: 4/27/94  
 Time: 12:00 PM  
 Company: Park Environmental

3. Received By: [Signature]  
 Date: 4/27/94  
 Time: 10:07 AM  
 Company: SIERRA

4. Received By: [Signature]  
 Date: [Signature]  
 Time: [Signature]  
 Company: [Signature]

Special Instructions:  
 Airborne Confirm # 91638

4 Total Number of Containers Submitted to Laboratory

4 Total Number of Containers Received by Laboratory

FOR LABORATORY USE ONLY - Sample & Field Conditions:

- Chain of Custody
- Field Sample Storage & Preservation
- Laboratory Sample Storage & Preservation
- Other

MAY 19 '94 09:22 MCDONALD STEPHENS

P.2



Date: May 17, 1994

**Park Environmental Corporation**  
4231 Pacific Street, Suite 7  
Rocklin, California 95677  
Attn: Mr. Peter Frank

Client Project Number: 5008-J9  
Client Project Name: N/A  
Date Sampled: Apr-27-94  
Date Samples Received: Apr-29-94  
Sierra Project Number: 9404-114  
Sierra Client Number: 10000-92

Enclosed with this letter is the report on the chemo-physical analysis of samples from the project references shown above.

The samples were received by Sierra intact, and with the chain of custody record attached.

Note that N.D. means not detected at the appropriate reporting limit. The reporting limit is adjusted to reflect the dilution factor of the sample. The reporting limit is expressed in such cases in parentheses to the right of reported value. The detection limit for values without such a designation appears to the right of or at the bottom of the same page.

Reviewed

Approved

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TEL: 714.758.9988  
FAX: 714.758.9692

<b>Park Environmental Corporation</b>	<b>Sierra Client No.</b>	<b>10000-92</b>	<b>Date Sampled:</b>	<b>.04/27/94</b>
<b>4231 Pacific Street, Suite 7</b>	<b>Sierra Project No.</b>	<b>9404-114</b>	<b>Date Received:</b>	<b>.04/29/94</b>
<b>Rocklin, California 95677</b>	<b>Client Project No.</b>	<b>5008-J9</b>	<b>Date Prepared:</b>	<b>.05/02/94</b>
	<b>Client Project:</b>	<b>N/A</b>	<b>Date Analyzed:</b>	<b>.05/02/94</b>
<b>Sample Preparation:</b>	<b>EPA Method 5030</b>			
<b>Sample Analysis:</b>	<b>8015-Modified (TPH as Gasoline-CADHS LUFT)</b>			<b>Report Date:</b>
	<b>and EPA 8020 (BTEX) in series</b>			<b>.05/17/94</b>

Sample Type: Vapor

Client Sample I.D.	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Influent-3-P	13000	3100	160	52	310	83	27	6	250	56
Effluent-3-P	300	73	5	2	7	2	ND	ND	7	2

	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
<b>Detection Limit:</b>	<b>100</b>	<b>24</b>	<b>1</b>	<b>0.31</b>	<b>1</b>	<b>0.27</b>	<b>1</b>	<b>0.23</b>	<b>1</b>	<b>0.23</b>

<b>Park Environmental Corporation</b> <b>4231 Pacific Street, Suite 7</b> <b>Rocklin, California 95677</b>	<b>Sierra Client No.</b>	<b>10000-92</b>	<b>Date Sampled:</b>	<b>.04/27/94</b>
	<b>Sierra Project No.</b>	<b>9404-114</b>	<b>Date Received:</b>	<b>.04/29/94</b>
	<b>Client Project No.</b>	<b>5008-J9</b>	<b>Date Prepared:</b>	<b>.05/02/94</b>
	<b>Client Project:</b>	<b>N/A</b>	<b>Date Analyzed:</b>	<b>.05/02/94</b>
			<b>Report Date:</b>	<b>.05/17/94</b>

### Surrogate Summary Report

<u>Client Sample I.D.</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>S1</u>	<u>(Range)</u>
<b>Influent-3-P</b>	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	<b>160</b>	<b>(90-160)</b>
<b>Effluent-3-P</b>	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	<b>130</b>	<b>(90-160)</b>



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### CHAIN OF CUSTODY RECORD

Nº 1000817

Date: 4/27/94 Page 1 of 1

Lab Project No.:

Client: Park Environmental  
 Client Address: 4231 Pacific Street Suite 7  
Rocklin, Ca 95671  
 Client Tel. No.: 916-652-3861  
 Client Fax No.: 916-652-4195  
 Client Proj. Mgr.: Peter Frank

Client Proj. Number/Proj. Name:  
9404-114  
5008-39

Turn Around Time Requested:

Expedite Attention

Rush 24-48 hours

Rush 72-96 hours

Normal

Flexible

### Analyses Requested

<input checked="" type="checkbox"/>	2013-Residual TPH in Gasoline • CADXHS (LJPT)
<input checked="" type="checkbox"/>	2013-Residual TPH in Gasoline • CADXHS (LJPT) and 2013-RS9 (Aromatic Hydrocarbons • BTEX) in Gasoline • CADXHS (LJPT)
<input type="checkbox"/>	2013-Residual TPH in Gasoline • CADXHS (LJPT)
<input type="checkbox"/>	2013-Residual TPH in Diesel • CADXHS (LJPT)
<input type="checkbox"/>	EPA 801 (Volatile Inorganics • BTEX)
<input type="checkbox"/>	EPA 801B (Volatile Hydrocarbons)
<input type="checkbox"/>	EPA 801C (Semi-Volatile Hydrocarbons • Halogenated)
<input type="checkbox"/>	EPA 801D (Organic Acids, Aldehydes, Ketones & Alcohols)
<input type="checkbox"/>	EPA 801E (OPPH)
<input type="checkbox"/>	Trace Metals • EPA 8010 (As, Pb, Cd, Cr, Ni, Se, V)
<input type="checkbox"/>	Organic Lead • CADXHS (LJPT)

*SENT TO TUESDAY*

Client Sample No.	Date	Time	Matrix	Preservatives	Container Type	No. of Containers
<u>Influent - 3-P</u>	<u>4/27/94</u>		<u>Vapor</u>	<u>None</u>	<u>Tedlar</u>	<u>2</u>
<u>Effluent - 3-P</u>	<u>4/27/94</u>		<u>Vapor</u>	<u>None</u>	<u>Tedlar</u>	<u>2</u>

Comments  
5562  
5563

<b>1</b> Sample Signature: <u>Howard Hold</u> Company: <u>Park Environmental</u>	Shipped Via: <u>Airborne Express</u> (Carrier/Waybill No.) <u>2011029914</u>
<b>2</b> Relinquished By: <u>Howard Hold</u> Company: <u>Park Environmental</u> Date: <u>4/28/94</u> Time: <u>12:00 PM</u>	Received By: <u>Sierra</u> Company: <u>SIERRA</u> Date: <u>4/28/94</u> Time: <u>10:00 AM</u>
<b>3</b> Relinquished By: Company: Date: Time:	Received By: Company: Date: Time:
<b>4</b> Relinquished By: Company: Date: Time:	Received By: Company: Date: Time:

4  
 Total Number of Containers Submitted to Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.

4  
 Total Number of Containers Received by Laboratory

Sample Disposal:

Return to Client

Lab Disposal

Archive not

Other \_\_\_\_\_

Special Instructions:  
Airborne Confirm # 91638

FOR LABORATORY USE ONLY - Sample Received Conditions:

Cold

Ambient

Warm

Other

Not Reported

Other

DISTRIBUTION: White - To accompany samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy



RECEIVED  
MAR 01 1994

Ans'd.....

Date: February 22, 1994

**Park Environmental Corporation**  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677  
Attn: Mr. Peter Frank

Client Project Number: 5008-J8  
Client Project Name: N/A  
Date Sampled: Feb-17-94  
Date Samples Received: Feb-18-94  
Sierra Project Number: SP-979-94  
Sierra Client Number: 10000-92

Enclosed with this letter is the report on the chemo-physical analysis of samples from the project references shown above.

The samples were received by Sierra in a chilled state, intact, and with the chain of custody record attached.

Note that N.D. means not detected at the appropriate reporting limit. The reporting limit is adjusted to reflect the dilution factor of the sample. The reporting limit is expressed in such cases in parentheses to the right of reported value. The detection limit for values without such a designation appears to the right of or at the bottom of the same page.

Reviewed

Approved

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SUITE D  
ANAHEIM, CA 92801

TEL: 714.758.9988  
FAX: 714.758.9692



Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-979-94  
Client Project No. 5008-J8  
Client Project:  
N/A

Date Sampled: .02/17/94  
Date Received: .02/18/94  
Date Prepared: .02/18/94  
Date Analyzed: .02/18/94  
Analyst: DM

Sample Preparation: EPA Method 5030

Sample Analysis: 8015-Modified (TPH as Gasoline-CADHS LUFT)  
and EPA 8020 (BTEX) in series

Report Date: .02/22/94

Sample Type: Vapor

Client Sample I.D.	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
INF-1-P	990	240	14	4.4	30	8.0	8.2	1.9	54	12
EFF-1-P	600	150	7.3	2.3	19	5.0	5.2	1.2	33	7.6

	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Detection Limit:	100	24	1	0.31	1	0.27	1	0.23	1	0.23

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-979-94  
Client Project No. 5008-J8  
Client Project:  
N/A

Date Sampled: .02/17/94  
Date Received: .02/18/94  
Date Prepared: .02/18/94  
Date Analyzed: .02/18/94

Report Date: .02/22/94

### Sample Duplicate Report

Client Sample I.D. VES-INF (SP-980-94)

<u>Parameter</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
TPH as Gasoline	EPA 8015-M	5

<u>Compound</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
Benzene	EPA 8020 (BTEX)	0
Toluene	EPA 8020 (BTEX)	10
Ethylbenzene	EPA 8020 (BTEX)	0
Xylenes (Total)	EPA 8020 (BTEX)	7

Quality Control Reference Number: G001-021894-G1B00032-017-018

<b>Park Environmental Corporation</b> <b>4231 Pacific Street, Suite 7</b> <b>Rocklin, CA 95677</b>	<b>Sierra Client No.</b>	10000-92	<b>Date Sampled:</b>	.02/17/94
	<b>Sierra Project No.</b>	SP-979-94	<b>Date Received:</b>	.02/18/94
	<b>Client Project No.</b>	5008-J8	<b>Date Prepared:</b>	.02/18/94
	<b>Client Project:</b>	N/A	<b>Date Analyzed:</b>	.02/18/94
			<b>Report Date:</b>	.02/22/94

### Surrogate Summary Report

<u>Client Sample I.D.</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>SI</u>	<u>(Range)</u>
INF-1-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	95	(50-130)
EFF-1-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	95	(50-130)

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

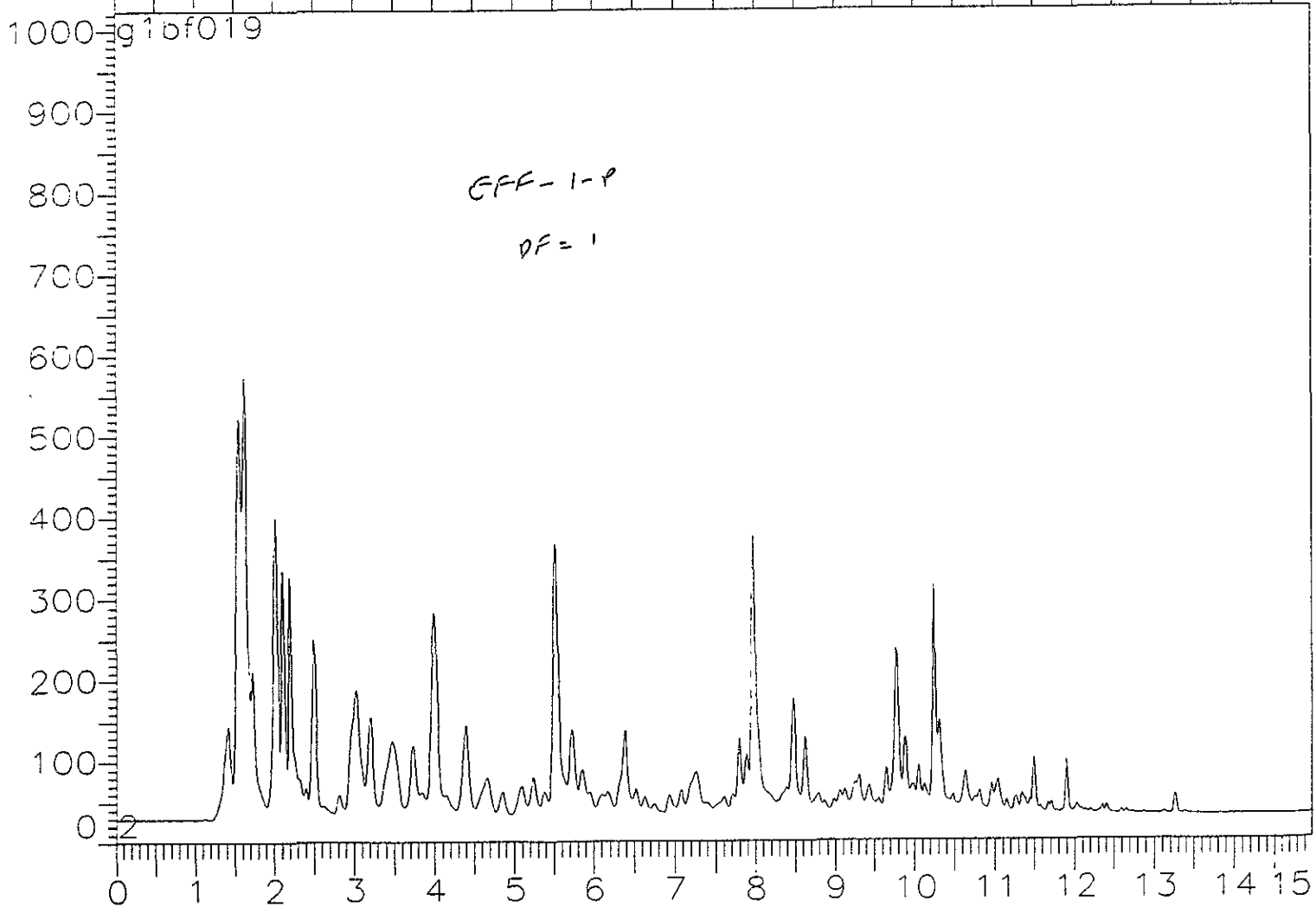
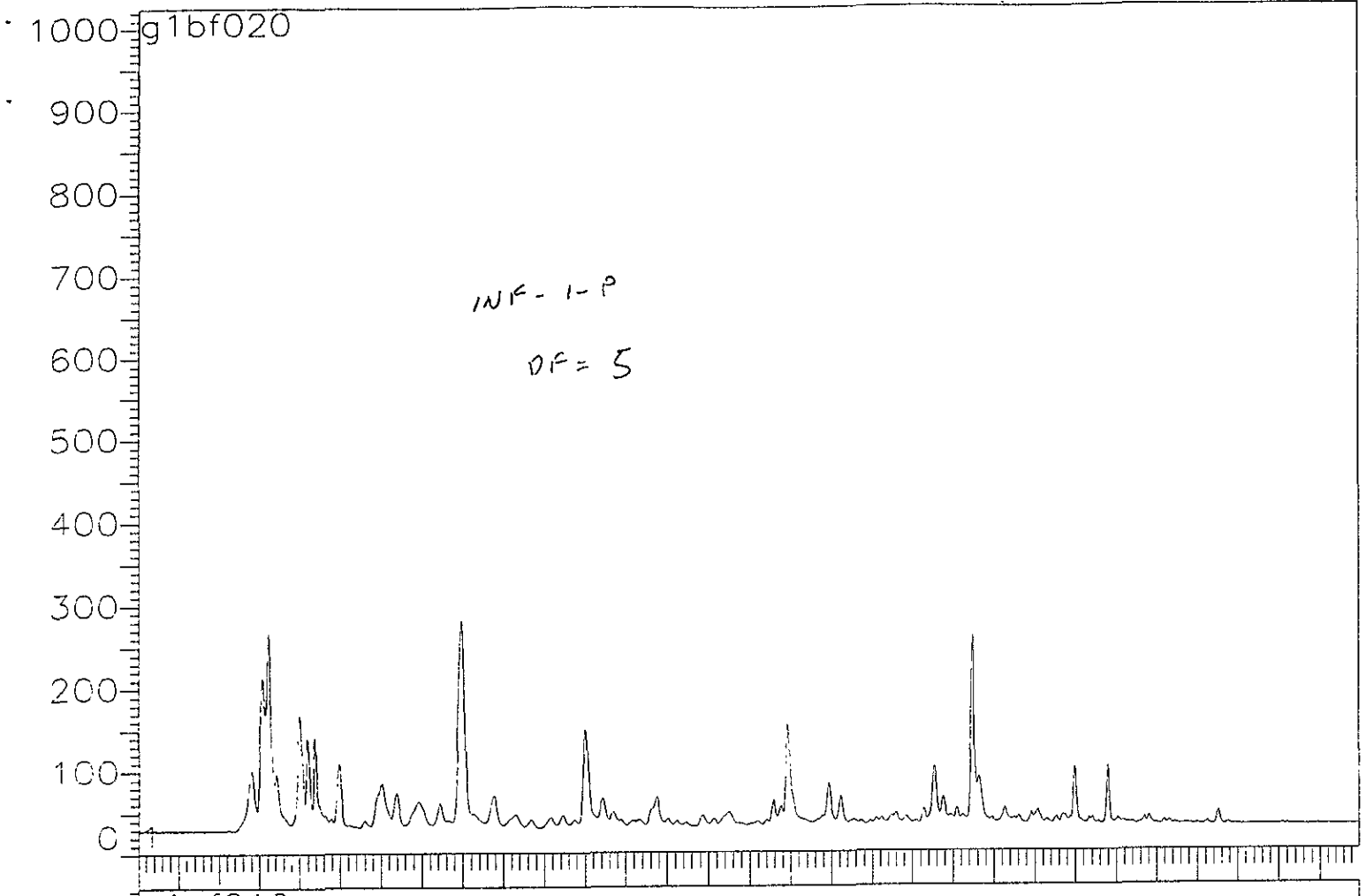
Sierra Client No. 10000-92  
Sierra Project No. SP-979-94  
Client Project No. 5008-J8  
Client Project:  
N/A

Date Sampled: .02/17/94  
Date Received: .02/18/94  
Date Prepared: .02/18/94  
Date Analyzed: .02/18/94

Report Date: .02/22/94

### Laboratory Control Sample Report

<u>Parameter</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
TPH as Gasoline	EPA 8015-M	90	(50-150)
	Quality Control Reference Number:	G001-021894-G1B00032-015	
<u>Compound</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
Benzene	EPA 8020 (BTEX)	95	(28-167)
Toluene	EPA 8020 (BTEX)	97	(41-138)
Ethylbenzene	EPA 8020 (BTEX)	94	(38-150)
Xylenes (Total)	EPA 8020 (BTEX)	97	(35-146)
	Quality Control Reference Number:	G001-021894-G1B00032-015	





**SIERRA LABORATORIES**  
 TEL: 714 • 758 • 9988  
 FAX: 714 • 758 • 9692  
 1525 Endeavour Place • Suite D • Anaheim, CA • 92801

### CHAIN OF CUSTODY RECORD

N<sup>o</sup> 1000814

Date: 2/17/94 Page 1 of 1

Lab Project No.: SA-979-94

Client: Park Environmental  
 Client Address: 4231 Pacific Street Suite 7  
Rocklin, Ca 95627  
 Client Tel. No.: 916-652-3861  
 Client Fax No.: 916-652-4195  
 Client Proj. Mgr.: Peter Frank

Client Proj. Number/Proj. Name:  
5008-J8  
 Turn Around Time Requested:  
 Immediate Attention  
 Rush 24-48 hours  
 Rush 72-96 hours  
 Normal  
 Mobile

#### Analyses Requested

<input checked="" type="checkbox"/>	8015-Modified (TPH as Gasolux) CADHS LUFT and EPA 8020 (Aromatic Volatiles BTEX) in Series
<input checked="" type="checkbox"/>	8015-Modified (TPH as Gasolux) CADHS LUFT
<input type="checkbox"/>	8015-Modified (TPH as Diesel) CADHS LUFT
<input type="checkbox"/>	EPA 8020 (Volatile Aromatics - BTEX)
<input type="checkbox"/>	EPA 8030 (Volatile Halogenated)
<input type="checkbox"/>	EPA 8010/8020 (Volatile Aromatics & Halogenated)
<input type="checkbox"/>	EPA 418.1 (TRPH)
<input type="checkbox"/>	Total Lead EPA method EPA 7271 (Colorimetry)
<input type="checkbox"/>	Organic Lead (CADHS LUFT)

Client Sample No.	Date	Time	Matrix	Preservatives	Container Type	No. of Containers	Comments
INE-1-P	2/17/94	1:30 PM	Vapor	None	Tedlar	2	
EFL-1-P	2/17/94	1:30 PM	Vapor	None	Tedlar	2	

1 Sampler Signature: Howard Fild Shipped Via: UPS-OVERNIGHT

Company: Park Environmental (Carrier/Waybill No) 0170 5973 212

4 Total Number of Containers Submitted to Laboratory

Sample Disposal:  
 Return to Client

2 Relinquished By: Howard Fild Date: 2/17/94 Received By: Sub Kim Date: 2/18/94

Company: Park Environmental Time: 2:30 PM Company: SIERRA LABS Time: 0855

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.

Lab Disposal

3 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Company: \_\_\_\_\_ Time: \_\_\_\_\_ Company: \_\_\_\_\_ Time: \_\_\_\_\_

Total Number of Containers Received by Laboratory

Other \_\_\_\_\_

4 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Company: \_\_\_\_\_ Time: \_\_\_\_\_ Company: \_\_\_\_\_ Time: \_\_\_\_\_

FOR LABORATORY USE ONLY - Sample Receipt Conditions:  
 Chilled  Appropriate Sample Container  
 Intact  Appropriate Preservatives  
 Sample Seals  Other \_\_\_\_\_  
 Properly Labeled  Other \_\_\_\_\_

Special Instructions:



RECEIVED MAY 13 1994

Date: April 15, 1994

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677  
Attn: Mr. Peter Frank

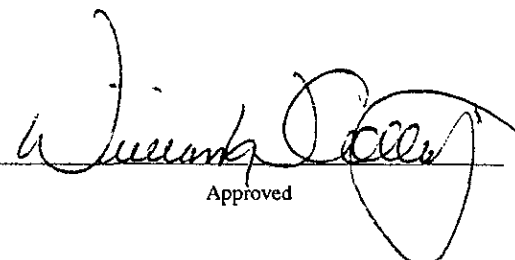
Client Project Number: 5008-J9  
Client Project Name: N/A  
Date Sampled: Apr-13-94  
Date Samples Received: Apr-15-94  
Sierra Project Number: SP-1072-94  
Sierra Client Number: 10000-92

Enclosed with this letter is the report on the chemo-physical analysis of samples from the project references shown above.

The samples were received by Sierra intact, and with the chain of custody record attached.

Note that N.D. means not detected at the appropriate reporting limit. The reporting limit is adjusted to reflect the dilution factor of the sample. The reporting limit is expressed in such cases in parentheses to the right of reported value. The detection limit for values without such a designation appears to the right of or at the bottom of the same page.

  
\_\_\_\_\_  
Reviewed

  
\_\_\_\_\_  
Approved

The contents of this report pertain only to the samples investigated and do not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Unauthorized reproduction of this report or use of this laboratory's name for advertising or publicity purposes is strictly prohibited.

1525 ENDEAVOR PLACE  
SUITE D  
ANAHEIM, CA 92801

TEL: 714.758.9988  
FAX: 714.758.9692

Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-1072-94  
Client Project No. 5008-J9  
Client Project:  
N/A

Date Sampled: .04/13/94  
Date Received: .04/15/94  
Date Prepared: .04/15/94  
Date Analyzed: .04/15/94  
Analyst: DM

Sample Preparation: EPA Method 5030  
Sample Analysis: 8015-Modified (TPH as Gasoline-CADHS LUFT)  
and EPA 8020 (BTEX) in series

Report Date: .04/15/94

Sample Type: Vapor

Client Sample I.D.	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Influent-2-P	2300	560	74	23	130	34	25	5.8	150	34
Effluent-2-P	170	42	5.5	1.7	10	2.7	2.2	0.51	13	3.0

	TPH		Benzene		Toluene		Ethylbenzene		Xylenes, Total	
	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)	µg/l	ppm (v/v)
Detection Limit:	100	24	1	0.31	1	0.27	1	0.23	1	0.23



Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92  
Sierra Project No. SP-1072-94  
Client Project No. 5006-J2  
Client Project:  
N/A

Date Sampled: .04/13/94  
Date Received: .04/15/94  
Date Prepared: .04/15/94  
Date Analyzed: .04/15/94  
Analyst: DM  
Report Date: .04/15/94

### Sample Duplicate Report

Client Sample I.D. INF-VES (SP-1069-94)

<u>Parameter</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
TPH as Gasoline	EPA 8015-M	2

<u>Compound</u>	<u>Analysis Type</u>	<u>Relative Percent Difference</u>
Benzene	EPA 8020 (BTEX)	0
Toluene	EPA 8020 (BTEX)	5
Ethylbenzene	EPA 8020 (BTEX)	10
Xylenes (Total)	EPA 8020 (BTEX)	9

Quality Control Reference Number: G001-041594-G1B00035-167-168

**Park Environmental Corporation**  
**4231 Pacific Street, Suite 7**  
**Rocklin, CA 95677**

**Sierra Client No.** 10000-92  
**Sierra Project No.** SP-1072-94  
**Client Project No.** 5006-J2  
**Client Project:**  
 N/A

**Date Sampled:** .04/13/94  
**Date Received:** .04/15/94  
**Date Prepared:** .04/15/94  
**Date Analyzed:** .04/15/94  
**Analyst:** DM

**Report Date:** .04/15/94

### Surrogate Summary Report

<u>Client Sample ID</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>S1</u>	<u>(Range)</u>
Influent-2-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	101	(50-130)
Effluent-2-P	8015-Modified (TPH as Gasoline-CADHS LUFT)/EPA 8020 (BTEX) in series	98	(50-130)

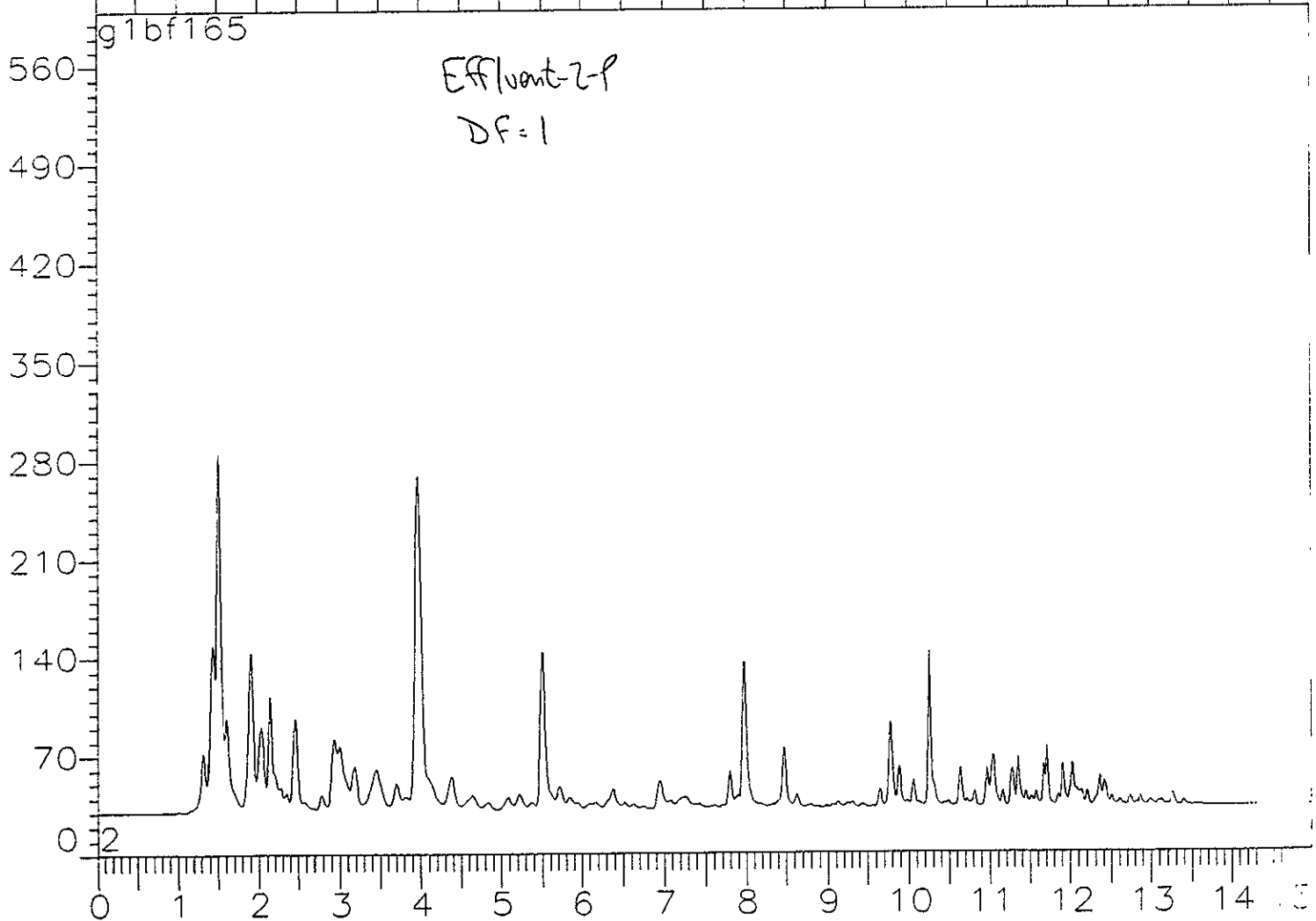
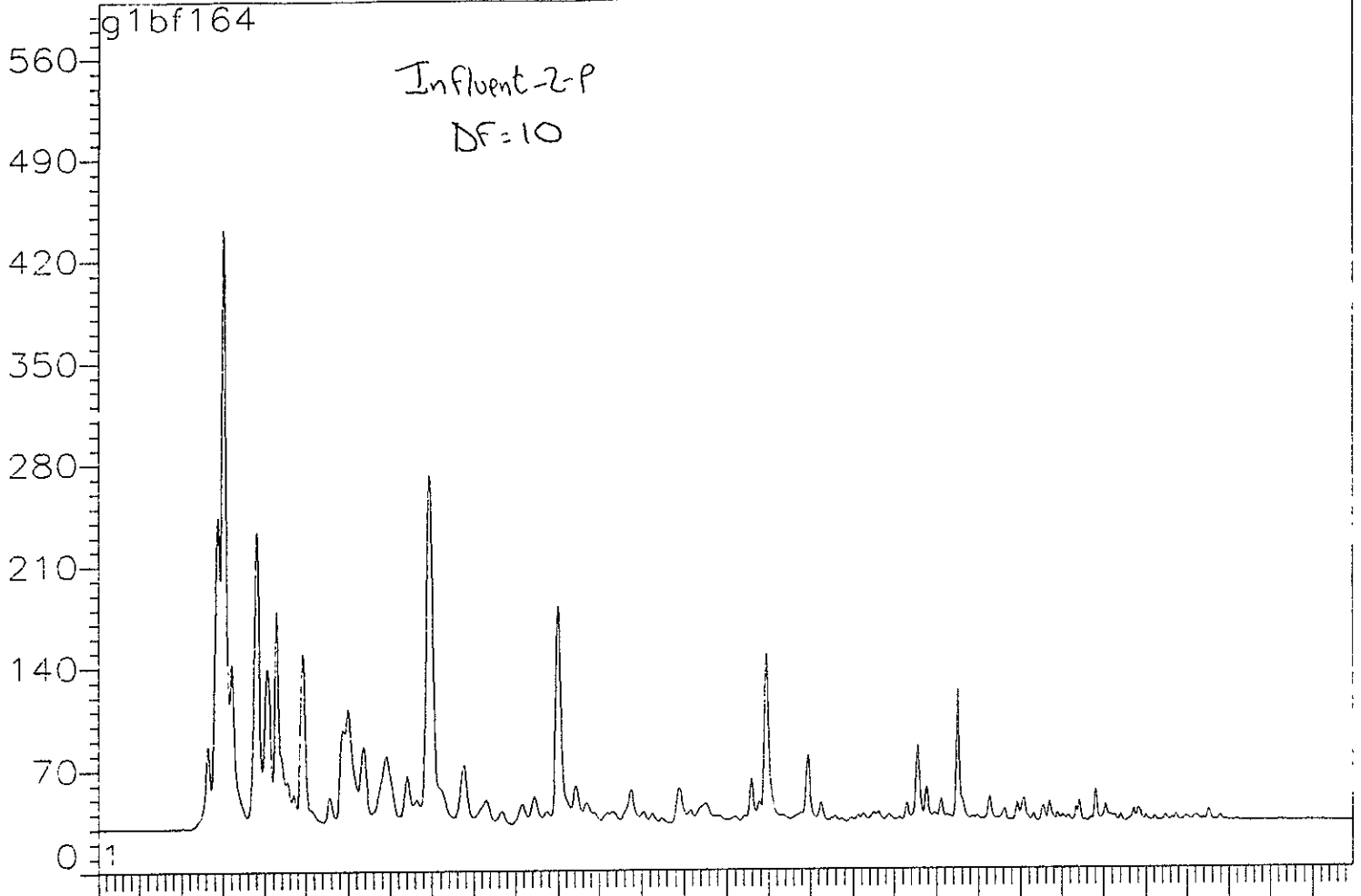
Park Environmental Corporation  
4231 Pacific Street, Suite 7  
Rocklin, CA 95677

Sierra Client No. 10000-92 Date Sampled: .04/13/94  
Sierra Project No. SP-1072-94 Date Received: .04/15/94  
Client Project No. 5006-J2 Date Prepared: .04/15/94  
Client Project: Date Analyzed: .04/15/94  
N/A Analyst: DM

Report Date: .04/15/94

### Laboratory Control Sample Report

<u>Parameter</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
TPH as Gasoline	EPA 8015-M	94	(50-150)
	Quality Control Reference Number:	G001-041594-G1B00035-160	
<u>Compound</u>	<u>Analysis Type</u>	<u>Per-cent Recovery</u>	
		<u>%</u>	<u>Range</u>
Benzene	EPA 8020 (BTEX)	103	(28-167)
Toluene	EPA 8020 (BTEX)	104	(41-138)
Ethylbenzene	EPA 8020 (BTEX)	103	(38-150)
Xylenes (Total)	EPA 8020 (BTEX)	104	(35-146)
	Quality Control Reference Number:	G001-041594-G1B00035-160	





SIERRA LABORATORIES

TEL: 714 • 758 • 9988

FAX: 714 • 758 • 9692

1525 Endeavour Place • Suite D • Anaheim, CA • 92801

CHAIN OF CUSTODY RECORD

No: 1000810

Date: 4/13/94 Page 1 of 1

Lab Project No.: SP-1072-94

Client: Park Environmental

Client Proj. Number/Proj. Name:

Client Address: 4231 Pacific Street, Suite 7  
Rocklin, Ca 95677

5008-J9

Analyses Requested

Client Tel. No.: 916-652-3861  
Client Fax No.: 916-652-4195  
Client Proj. Mgr.: Peter Frank

Turn Around Time Requested:  Immediate Attention  
 Rush 24-48 hours  
 Rush 72-96 hours  
 Normal  
 Mobile

Table with columns for various analyses: 8015-Modified (TPH as Oxidize), 8015-Modified (TPH as Oxidize - CADHS LUFT), 8015-Modified (TPH as Oxidize - CADHS LUFT), EPA 8020 (Volatile Aromatics - BTEX), EPA 8030 (Volatile Hydrocarbons), EPA 8010/8030 (Volatile Aromatics & Hydrocarbons), EPA 418.1 (TRPH), Total Lead (EPA 8210), Organic Lead (CADHS LUFT).

Table with columns: Client Sample No., Date, Time, Matrix, Preservatives, Container Type, No. of Containers. Rows include Influent-2-P and Effluent-2-P.

1 Sampler Signature: Howard Hold Shipped via: Arborne Express

Company: Park Environmental (Carrier/Waybill No) 111758

2 Total Number of Containers Submitted to Laboratory

Sample Disposal:  Return to Client

2 Relinquished By: Howard Hold Date: 4/14/94 Received By: [Signature] Date: 4/15/94

Company: Park Environmental Time: 2:30 PM Company: SIERRA LABS Time: 1000

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA'S Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.

Lab Disposal  Archive mos.

3 Relinquished By: Date: Received By: Date:

Company: Time: Company: Time:

2 Total Number of Containers Received by Laboratory

Other

4 Relinquished By: Date: Received By: Date:

Company: Time: Company: Time:

FOR LABORATORY USE ONLY - Sample Receipt Conditions:  Chilled  Appropriate Sample Container  Intact  Appropriate Preservatives  Sample Seals  Other  Properly Labeled  Other

Special Instructions: Price per previous billing