

D&A

1373

December 10, 1997

Susan Hugo
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Dear Ms. Hugo:

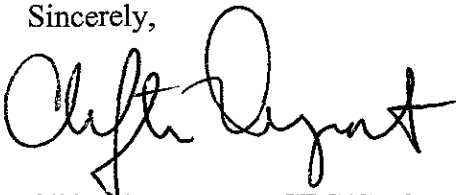
**RE: MONITORING WELLS DOWNGRADIENT OF THE FORMER
STANDARD BRANDS PAINT STORE #147, 4343 SAN PABLO AVENUE,
EMERYVILLE, CALIFORNIA**

In a December 2, 1997 phone conversation, you inquired as to the plans for abandonment of the two monitoring wells (MW4 and MW5) located across Emery Street and downgradient of the subject Site. These wells were apparently installed by Environ as part of an investigation for the City of Emeryville Redevelopment Agency. Boring logs for these two wells are included in Environ's "Subsurface Investigation Report, Standard Brands Paint, Emeryville, California" dated August 18, 1995. For your convenience, I have included a copy of the two boring logs and report cover with this letter.

Since MW4 and MW5 belong to City of Emeryville Redevelopment Agency, they would be responsible for proper abandonment. Site monitoring wells MW1A, MW2 and MW3 should be abandoned during third quarter 1998, after the requisite year of quarterly monitoring has been completed.

If you have any questions on this matter, please contact me at (510) 533-6710.

Sincerely,



Clifton Davenport, CEG/CHG
Principal

**SUBSURFACE INVESTIGATION REPORT
STANDARD BRANDS PAINT
EMERYVILLE, CALIFORNIA**

Prepared for

Emeryville Redevelopment Agency

Prepared by

ENVIRON Corporation
Emeryville, California

August 18, 1995
03-4603E

Top of PVC Casing
Elevation: 35.58 ft., MSL Datum

Surface Elev 36.03 feet MSL Datum

Coordinates N: 5811.29 E: 4603.47

Drill Date: Start 6/9/95 Finish 6/9/95

Drill Method Mobile B-53; Hollow-Stem Auger

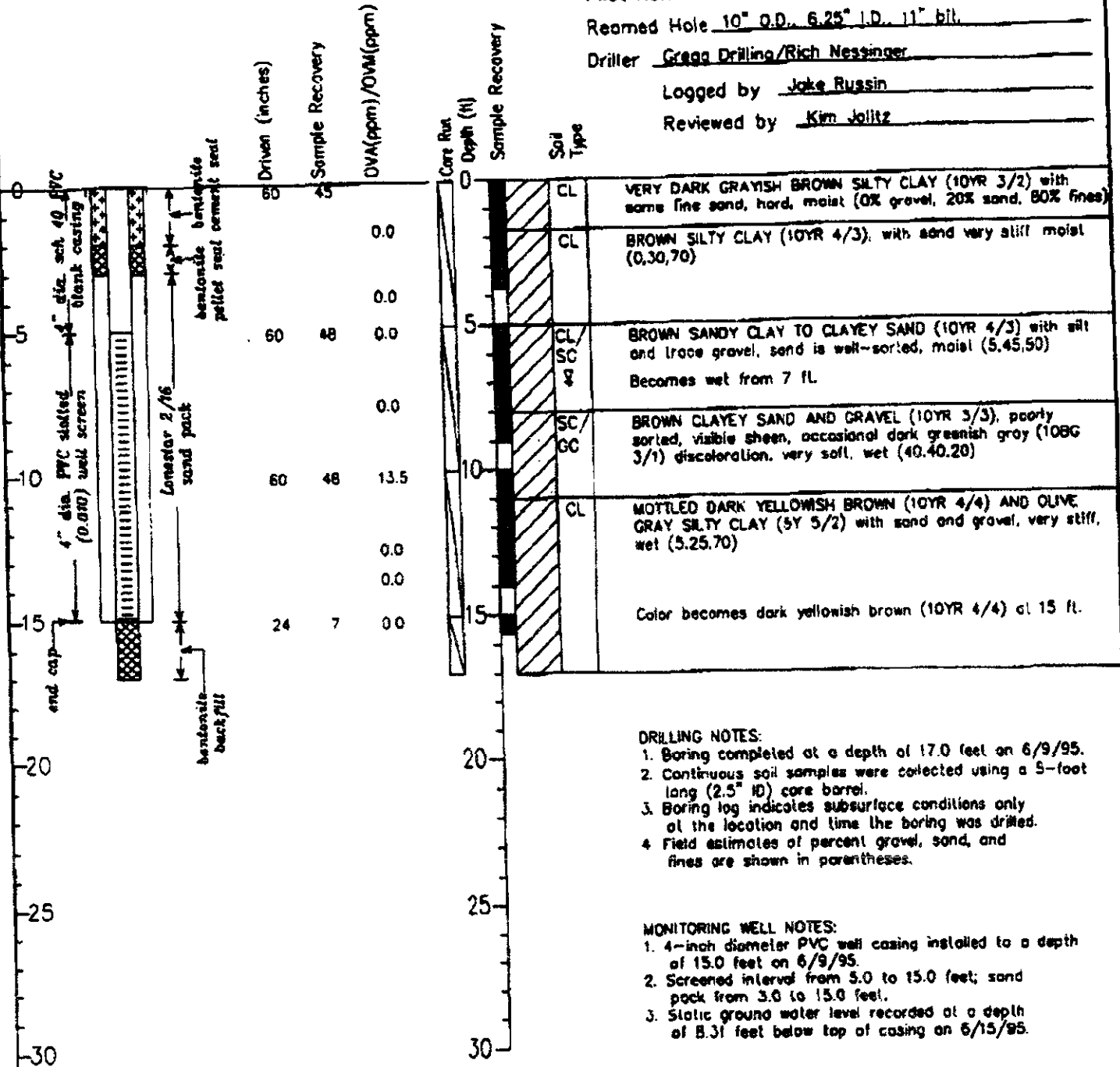
Pilot Hole 6.25" O.D., 3.25" I.D., 7" bit.

Reamed Hole 10" O.D., 6.25" I.D., 11" bit.

Driller Gregg Drilling/Rich Nessinger

Logged by Jake Russin

Reviewed by Kim Joltz



DRILLING NOTES:

1. Boring completed at a depth of 17.0 feet on 6/9/95.
2. Continuous soil samples were collected using a 5-foot long (2.5" ID) core barrel.
3. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
4. Field estimates of percent gravel, sand, and fines are shown in parentheses.

MONITORING WELL NOTES:

1. 4-inch diameter PVC well casing installed to a depth of 15.0 feet on 6/9/95.
2. Screened interval from 5.0 to 15.0 feet; sand pack from 3.0 to 15.0 feet.
3. Static ground water level recorded at a depth of 8.31 feet below top of casing on 6/15/95.

ENVIRON

Counsel in Health and Environmental Science

Job No.03-4603D

Approved

7/31/95

LOG OF BORING

Standard Brands Remedial Design Investigation
4343 San Pablo Ave.,
Emeryville, California

Page 1 of 1

MW4

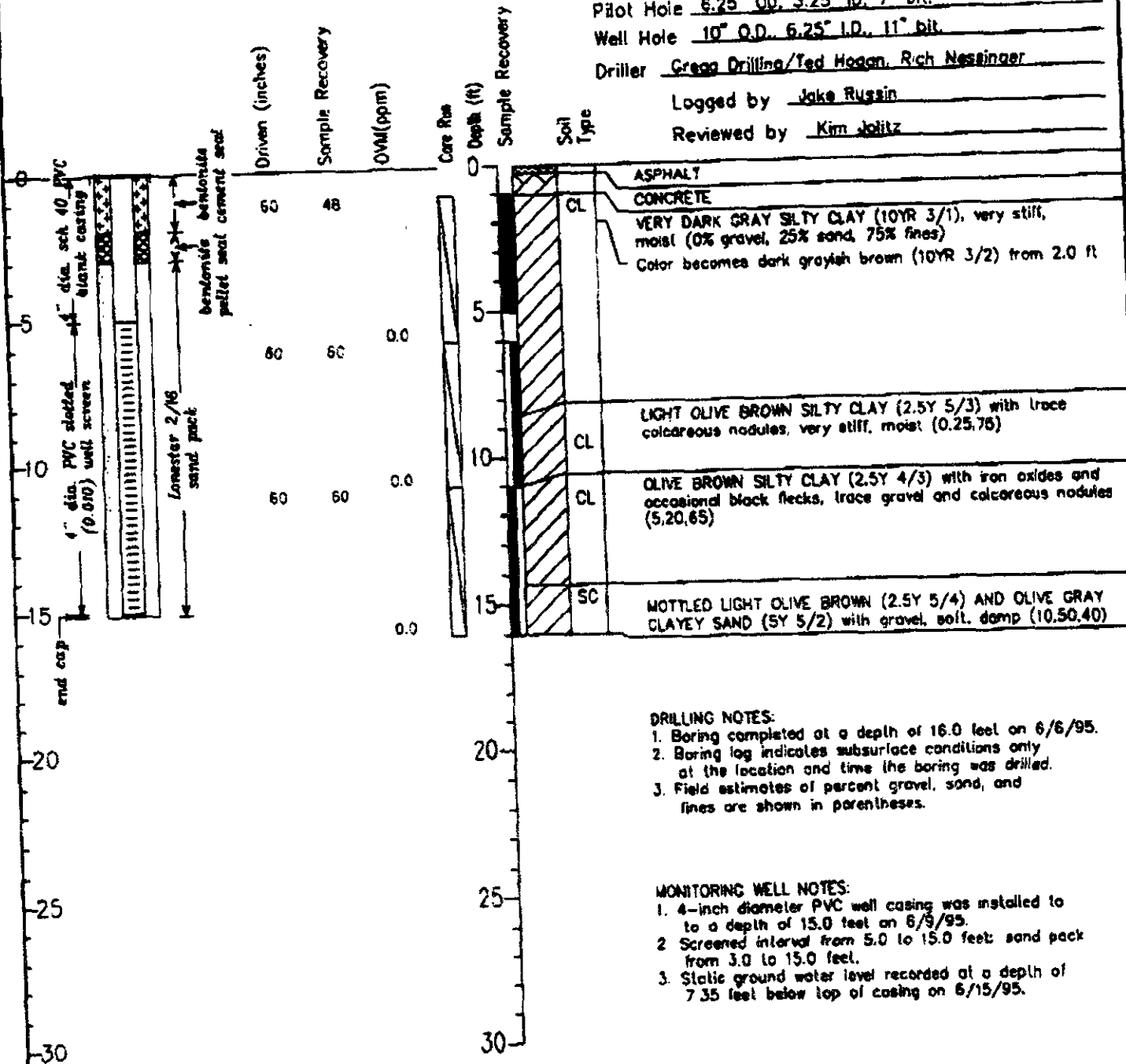
FIGURE

A-22

Top of PVC Casing
Elevation: 32.90 feet, MSL Datum

Surface Elev. 33.44 feet, MSL Datum
Coordinates N: 5771.91 E: 4149.27
Pilot Hole Drill Date: Start 6/6/95 Finish 6/6/95
Well Hole Drill Date: Start 6/8/95 Finish 6/9/95
Drill Method Mobile B-53, Hollow-Stem Auger
Pilot Hole 6.25" O.D., 3.25" I.D., 7" bit.
Well Hole 10" O.D., 6.25" I.D., 11" bit.
Driller Gregg Drilling/Ted Hogan, Rich Nessinger

Logged by Jake Russin
Reviewed by Kim Jolitz



DRILLING NOTES:
1. Boring completed at a depth of 16.0 feet on 6/6/95.
2. Boring log indicates subsurface conditions only at the location and time the boring was drilled.
3. Field estimates of percent gravel, sand, and fines are shown in parentheses.

MONITORING WELL NOTES:
1. 4-inch diameter PVC well casing was installed to a depth of 15.0 feet on 6/9/95.
2. Screened interval from 5.0 to 15.0 feet; sand pack from 3.0 to 15.0 feet.
3. Static ground water level recorded at a depth of 7.35 feet below top of casing on 6/15/95.

ENVIRON

Course in Health and Environmental Science

Job No. 03-4603D

Approved:

8/8/95

LOG OF BORING

Standard Brands Remedial Design Investigation
4343 San Pablo Ave.,
Emeryville, California

Page 1 of 1

MW5 (B-13)

FIGURE

A-23

LOG OF BORING MW-1A

Former Standard Brands Paint Store #147

4343 San Pablo Avenue

Emeryville, California

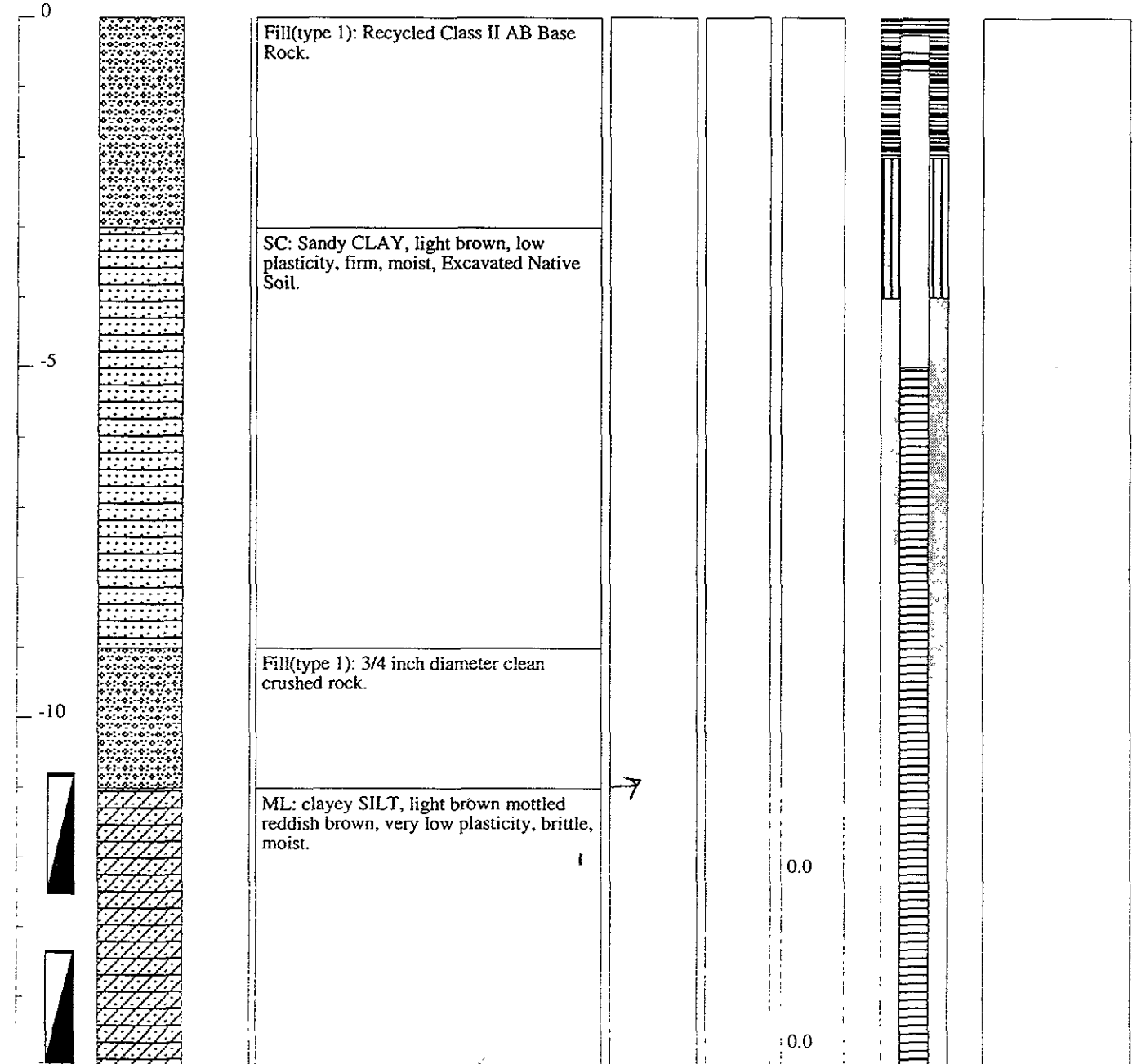
DATES DRILLED: 09/25/97 SAMPLING METH.: California Sampler
 DRILLING CO: FAST-TEK TOTAL DEPTH: 15 feet bgs
 DRILL TOOLS: 8 inch hollow stem auger & LOGGED BY: P. Jones
 DRILLER: J Collins DATE DEV.: 50 gal

PROJECT MANAGER: P. Jones DRAWN BY: P. Jones
 ARTESIAN JOB NO.: 301-001-02F DRAW DATE: 11/06/97

ARTESIAN ENVIRONMENTAL CONSULTANTS

229 Tewksbury Avenue, Point Richmond, California 94801
 TEL (510) 307-9943 • FAX (510) 232-2823

| DEPTH (feet) | SOIL SYMBOLS/ FIELD TEST DATA | SOIL DESCRIPTION | SAMPLE NO. | BLOWS /6 in. | PID ppm | COMPLETION DIAGRAM | DESCRIPTION |
|--------------|-------------------------------|------------------|------------|--------------|---------|--------------------|-------------|
|--------------|-------------------------------|------------------|------------|--------------|---------|--------------------|-------------|



ATTACHMENT A

**STANDARD OPERATING PROCEDURES-
MONITORING WELL SAMPLING**

FAST-TEK Engineering Support Services

Standard Operating Procedures

MONITORING WELL SAMPLING

Prior to groundwater sampling, initial water level and floating liquid hydrocarbon measurements are recorded for each well. Each well is sounded for depth to ascertain if silting has occurred and to verify the actual depth below ground surface. These measurements are used to calculate the volume for each well. At this time, all non-dedicated pumping and sampling supplies are washed with an Alconox solution, rinsed with clean water, and final rinsed with either distilled or deionized water to prevent any cross contamination from other sampling events.

Each well is purged by evacuating a minimum of three well-casing volumes of groundwater from the well. The well water may be evacuated either by bailing, or pumping. Any of the following may be used for bailing: a dedicated pvc bailer, sterile disposable polyethylene bailer, or a stainless steel bailer. For pumping the groundwater out of the well, a downhole impeller type pump (dedicated or removable with PVC tubing), a downhole dedicated bladder pump, or a surface peristaltic pump is used.

After three to four well volumes are pumped, each well is permitted to recharge to at least 80% of original capacity or for two hours; whichever occurs first. The water is then measured to verify whether the well has stabilized. Stabilization is determined by measuring the parameters of pH; temperature; and electrical conductivity. Stabilized measurements indicate that formation water has entered the well. When two subsequent measurements of these three parameters are within 10% of each other, the well is considered stabilized and is ready to be sampled.

The samples are collected using a new polyethylene bailer with a bottom siphon and nylon cord. The bailers are disposable, and therefore, never reused. The groundwater sample is visually inspected for the presence of free product in the sampling bailer. Agitation is minimized during sample retrieval to prevent aeration during the transfer from the well to the laboratory prepared sample containers. Duplicate water samples are collected from the well and siphoned into three, 40 ml, VOA, septum top vials, with additional 950 ml samples collected in an amber glass bottles or polyethylene bottles depending on the analyses to be performed. The VOA vials are filled completely, leaving no headspace, and are sealed with Teflon-lined lids. All samples are labeled, chilled to 4° C in an ice chest, and sent to a California State Certified hazardous materials testing laboratory under chain-of-custody documentation .

All groundwater samples are collected in accordance with California Regional Water Quality Control Board (RWQCB) procedures described in the *Leaking Underground Fuel Tank (LUFT) Field Manual*, the *Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites*, and local regulatory guidelines.

Standard Environmental Protection Agency (EPA), San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), and Department of Health Services (DHS) methodologies for sampling and analyses are routinely utilized.

Chain of Custody documentation accompanies all samples to the laboratory. A copy of the Chain of Custody documentation is attached to the Certificate of Analysis.

Monitor well purge water is properly stored and labeled on site in DOT 17-H containers pending off site disposal.

ATTACHMENT B

**LABORATORY ANALYTICAL/QUALITY CONTROL DATA
AND CHAIN OF CUSTODY RECORD**



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone : 510-798-1620 Fax : 510-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

| | | |
|--|---|--------------------------|
| FAST-TEK 247 B Tewksbury Avenue Pt. Richmond, CA 94801 | Client Project ID: #301-002-02F; Keeper/ Standard Brands | Date Sampled: 09/29/97 |
| | | Date Received: 09/30/97 |
| | Client Contact: Paul Jones | Date Extracted: 09/30/97 |
| | Client P.O: | Date Analyzed: 09/30/97 |

10/07/97

Dear Paul:

Enclosed are:

- 1). the results of 2 samples from your #301-002-02F; Keeper/ Standard Brands project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



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| FAST-TEK 247 B Tewksbury Avenue Pt. Richmond, CA 94801 | Client Project ID: #301-002-02F; | Date Sampled: 09/29/97 |
| | Keeper/ Standard Brands | Date Received: 09/30/97 |
| | Client Contact: Paul Jones | Date Extracted: 09/30/97 |
| | Client P.O: | Date Analyzed: 09/30/97 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(g)* | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | % Recovery Surrogate |
|--|-----------|--------|-----------|------|---------|---------|--------------|---------|----------------------|
| 81308 | MW1A | W | ND | --- | ND | ND | ND | ND | 105 |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | 5.0 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | S | | 1.0 mg/kg | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | |

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant, b) heavier gasoline range compounds are significant(aged gasoline?), c) lighter gasoline range compounds (the most mobile fraction) are significant, d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?, e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant, h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol % sediment; j) no recognizable pattern



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|--|---|--------------------------------|
| FAST-TEK 247 B Tewksbury Avenue Pt. Richmond, CA 94801 | Client Project ID: #301-002-02F, Keeper/ Standard Brands | Date Sampled: 09/29/97 |
| | Client Contact: Paul Jones | Date Received: 09/30/97 |
| | Client P.O: | Date Extracted: 09/30-10/01/97 |
| | | Date Analyzed: 09/30-10/01/97 |

Mineral Spirits Range (C9-C12) Volatile Hydrocarbons as Mineral Spirits*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

| Lab ID | Client ID | Matrix | TPH(ms)* | % Recovery Surrogate |
|--|-----------|--------|----------|----------------------|
| 81309 | MW3 | W | 310.c | 96 |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | | 50 ug/L | |
| | S | | 10 mg/kg | |

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

* cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant, b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant, d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?, e) IPII pattern that does not appear to be derived from gasoline (mineral spirits?); f) one to a few isolated peaks present, g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present, i) liquid sample that contains greater than ~5 vol % sediment, j) no recognizable pattern



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| FAST-TEK 247 B Tewksbury Avenue Pt. Richmond, CA 94801 | Client Project ID: #301-002-02F; Keeper/ Standard Brands | Date Sampled: 09/29/97 |
| | Client Contact: Paul Jones | Date Received: 09/30/97 |
| | Client P.O.: | Date Extracted: 09/30-10/06/97 |
| | | Date Analyzed: 09/30-10/06/97 |

Volatile Halocarbons

EPA method 601 or 8010

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|--|---------------|--|--|
| Lab ID | 81309 | | |
| Client ID | MW3 | | |
| Matrix | W | | |
| Compound | Concentration | | |
| Bromodichloromethane | ND | | |
| Bromoform ^(b) | ND | | |
| Bromomethane | ND | | |
| Carbon Tetrachloride ^(c) | ND | | |
| Chlorobenzene | ND | | |
| Chloroethane | ND | | |
| 2-Chloroethyl Vinyl Ether ^(d) | ND | | |
| Chloroform ^(e) | ND | | |
| Chloromethane | ND | | |
| Dibromochloromethane | ND | | |
| 1,2-Dichlorobenzene | ND | | |
| 1,3-Dichlorobenzene | ND | | |
| 1,4-Dichlorobenzene | ND | | |
| Dichlorodifluoromethane | ND | | |
| 1,1-Dichloroethane | ND | | |
| 1,2-Dichloroethane | ND | | |
| 1,1-Dichloroethene | ND | | |
| cis 1,2-Dichloroethene | ND | | |
| trans 1,2-Dichloroethene | ND | | |
| 1,2-Dichloropropane | ND | | |
| cis 1,3-Dichloropropene | ND | | |
| trans 1,3-Dichloropropene | ND | | |
| Methylene Chloride ^(f) | ND<1 | | |
| 1,1,2,2-Tetrachloroethane | ND | | |
| Tetrachloroethene | ND | | |
| 1,1,1-Trichloroethane | ND | | |
| 1,1,2-Trichloroethane | ND | | |
| Trichloroethene | ND | | |
| Trichlorofluoromethane | ND | | |
| Vinyl Chloride ^(g) | ND | | |
| % Recovery Surrogate | 101 | | |
| Comments | | | |

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L. soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated. water/TCLP/SPLP extracts, ND<0.5ug/L. soils and sludges. ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene, (e) trichloromethane, (f) dichloromethane, (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol % sediment; (j) sample diluted due to high organic content



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| | | |
|--|---|--------------------------|
| FAST-TEK 247 B Tewksbury Avenue Pt. Richmond, CA 94801 | Client Project ID: #301-002-02F; Keeper/ Standard Brands | Date Sampled: 09/29/97 |
| | Client Contact: Paul Jones | Date Received: 09/30/97 |
| | Client P.O: | Date Extracted: 10/02/97 |
| | | Date Analyzed: 10/02/97 |

Naphthalene *

EPA method 8260

| Lab ID | Client ID | Matrix | Naphthalene | % Recovery Surrogate |
|--|-----------|-----------|-------------|----------------------|
| 81309 | MW3 | W | ND | 84 |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | 1.0 ug/L | | |
| | S | 5.0 ug/kg | | |

* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L
 h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol % sediment



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| FAST-TEK 247 B Tewksbury Avenue Pt. Richmond, CA 94801 | Client Project ID: #301-002-02F; Keeper/ Standard Brands | Date Sampled: 09/29/97 |
| | Client Contact: Paul Jones | Date Received: 09/30/97 |
| | Client P.O: | Date Extracted: 09/30/97 |
| | | Date Analyzed: 10/01/97 |

Organic Lead

CA Title 22, Chapter 11, Appendix XI

| Lab ID | Client ID | Matrix | Organic Lead * |
|--|-----------|-----------|----------------|
| 81308 | MW1A | W | ND |
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| Reporting Limit unless otherwise stated; ND means not detected above the reporting limit | W | 0.1 mg/L | |
| | S | 0.5 mg/kg | |

* water samples are reported in mg/L, soil and sludge samples in mg/kg and wipes in mg/wipe
h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol % sediment.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 09/30/97 - 10/01/97

Matrix: Water

| Analyte | Concentration (mg/L) | | | Amount Spiked | % Recovery | | RPD |
|------------------------|----------------------|-------|-------|---------------|------------|-------|-----|
| | Sample # (81260) | MS | MSD | | MS | MSD | |
| TPH (gas) | 0.0 | 103.8 | 107.0 | 100.0 | 103.8 | 107.0 | 3.0 |
| Benzene | 0.0 | 10.6 | 10.4 | 10.0 | 106.0 | 104.0 | 1.9 |
| Toluene | 0.0 | 10.7 | 10.6 | 10.0 | 107.0 | 106.0 | 0.9 |
| Ethyl Benzene | 0.0 | 10.7 | 10.6 | 10.0 | 107.0 | 106.0 | 0.9 |
| Xylenes | 0.0 | 32.3 | 31.9 | 30.0 | 107.7 | 106.3 | 1.2 |
| TPH(diesel) | 0 | 169 | 172 | 150 | 113 | 114 | 1.6 |
| TRPH (oil & grease) | 0 | 28.4 | 27.1 | 27.3 | 104 | 99 | 4.7 |

$$\% \text{ Rec.} = \text{MS} - \text{Sample} / \text{amount spiked} \times 100$$

$$\text{RPD} = \text{MS} - \text{MSD} / (\text{MS} + \text{MSD}) \times 2 \times 100$$

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Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR VOCs (EPA 8240/8260)

Date: 10/02/97-10/03/97

Matrix: Water

| Analyte | Concentration (ug/kg, u) | | | Amount Spiked | % Recovery | | RPD |
|--------------------|--------------------------|-------|-------|---------------|------------|-----|-----|
| | Sample # (80837) | MS | MSD | | MS | MSD | |
| 1,1-Dichloroethene | 0.0 | 100.0 | 97.0 | 100 | 100 | 97 | 3.0 |
| Trichloroethene | 0.0 | 83.0 | 83.0 | 100 | 83 | 83 | 0.0 |
| EDB | 0.0 | 95.0 | 89.0 | 100 | 95 | 89 | 6.5 |
| Chlorobenzene | 0.0 | 97.0 | 93.0 | 100 | 97 | 93 | 4.2 |
| Benzene | 0.0 | 105.0 | 101.0 | 100 | 105 | 101 | 3.9 |
| Toluene | 0.0 | 101.0 | 100.0 | 100 | 101 | 100 | 1.0 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

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Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR EPA 8010/8020/EDB

Date: 09/30/97

Matrix: Water

| Analyte | Concentration (ug/L) | | | | % Recovery | | |
|-----------------|----------------------|------|------|---------------|------------|-----|-----|
| | Sample # (81461) | MS | MSD | Amount Spiked | MS | MSD | RPD |
| 1,1-DCE | 0.0 | 10.7 | 11.3 | 10.0 | 107 | 113 | 5.5 |
| Trichloroethene | 0.0 | 9.4 | 9.8 | 10.0 | 94 | 98 | 4.3 |
| EDB | 0.0 | 8.3 | 8.9 | 10.0 | 83 | 89 | 6.9 |
| Chlorobenzene | 0.0 | 9.7 | 10.1 | 10.0 | 97 | 101 | 4.5 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chlorobz (PID) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

McCAMPBELL ANALYTICAL INC.

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Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR EPA 8010/8020/EDB

Date: 10/03/97-10/06/97

Matrix: Water

| Analyte | Concentration (ug/L) | | | | % Recovery | | |
|-----------------|----------------------|------|------|------------------|------------|-----|-----|
| | Sample #(81462) | MS | MSD | Amount Spiked | MS | MSD | RPD |
| 1,1-DCE | 0.0 | 11.3 | 11.4 | 10.0 | 113 | 114 | 0.9 |
| Trichloroethene | 0.0 | 10.0 | 10.1 | 10.0 | 100 | 101 | 1.0 |
| EDB | 0.0 | 8.9 | 9.0 | 10.0 | 89 | 90 | 1.1 |
| Chlorobenzene | 0.0 | 10.0 | 10.2 | 10.0 | 100 | 102 | 2.0 |
| Benzene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Toluene | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Chlorobz (PID) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR ICP and/or AA METALS

Date: 10/01/97

Matrix: Water

| Analyte | Concentration (mg/L) | | | Amount | % Recovery | | |
|----------------|----------------------|------|------|--------|------------|-----|-----|
| | Sample | MS | MSD | | MS | MSD | RPD |
| Total Lead | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Cadmium | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Chromium | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Nickel | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Zinc | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Copper | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Organic Lead | 0.00 | 4.07 | 4.18 | 5.00 | 81 | 84 | 2.6 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

1247 B TEWKSBURY AVE.
 Ft. Richmond, CA. 94801

CHAIN OF CUSTODY

(510) 232-2728 FAX: 232-2823

9538 XFT 5

ANALYSIS BY: ANALYST'S SIGNATURE
 (DATE)

SAMPLERS: (Signature) JASON FRENCH *Jason French*

PROJECT NAME: KEEPER / STANDARD BRANDS JOB NUMBER: 301-001-02F

DESCRIPTION: MONITORING WELL SAMPLING EVENT

ADDRESS: 4343 SAN PABLO AVE, EMERYVILLE, CA

ANALYSIS REQUESTED

TOTAL PETROLEUM HYDROCARBONS - ALLVERAL
 BTX & E
 VOC - EPA 8240
 TOTAL OIL & GREASE
 TPH 3/BTEX
 ORGANIC LEAD
 NAPHTHALENE
 VOC: (M 5110)
 (3260)

| CROSS REFERENCE NUMBER | DATE | TIME | SOIL | WATER | STATION LOCATION | REMARKS |
|------------------------|---------|------|------|-------|------------------|---|
| MW1A | 9/24/97 | 1500 | | X | | 2 PLASTIC |
| MW3 | 9/24/97 | 1700 | | X | | 4 PRESERVED VOAS 4 AMBER 4 PRESERVED VOAS |
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81308
 81309

ICE/PRESERVATION HEAD SPACE ABSENT CONTAINERS

VOAS O&G METALS OTHER

GOOD CONDITION APPROPRIATE

| | | | |
|--|--------------|---|--------------|
| RELINQUISHED BY: (Signature) <i>Jason French</i> | DATE | RECEIVED BY: (Signature) <i>AKK...</i> | DATE 9/30/97 |
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | TIME | RECEIVED BY: (Signature) <i>[Signature]</i> | TIME 1020 |
| RELINQUISHED BY: (Signature) <i>[Signature]</i> | DATE 9/30/97 | RECEIVED BY: (Signature) <i>[Signature]</i> | DATE 9/30/97 |
| RELINQUISHED BY: (Signature) | TIME 1155 | RECEIVED BY: (Signature) | TIME 11:55 |
| RELINQUISHED BY: (Signature) | DATE | RECEIVED FOR LABORATORY BY: (Signature) | DATE |
| RELINQUISHED BY: (Signature) | TIME | | TIME |

DRAFT

August 14, 1997

Paul Jones, Project Manager
FAST-TEK Eng. Support Services
247 B Tewksbury Avenue
Point Richmond, CA 94801

Dear Mr. Jones:

Included are the results from the testing of material submitted on July 30 from your 301-001-02F project. Soil samples W Wall GC and E Wall G were submitted for hydrocarbon characterization. Enclosed are the GC/FID and GC/ECD traces produced. In general, on a GC trace, the volatile material elutes first, close to time zero. The remaining material elutes in increasing boiling point order as the GC run progresses.

The material present in samples W Wall GC and E Wall G is indicative of a highly weathered, non-reformulated gasoline. This low boiling distillate appears as a pattern of peaks eluting from approximately 2 to 12 minutes on the GC/FID traces. The distillation endpoint for these products appears at *n*-C13, or 235°C. This composition is consistent with gasoline produced before approximately 1960. In addition, the degree of weathering that has occurred to the products present in samples W Wall GC and E Wall GC is consistent with releases that have occurred greater than 10 years ago. The GC/ECD traces for both samples show a peak indicative of tetraethyl lead (TEL) at approximately 9 minutes. Additional analyses are available that can confirm this tentative identification.

Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Kurt Johnson
Chemist

Enclosures
FAX: (510) 232-2823
NAA0814R.DOC

DRAFT

Date of Report: 08/14/97
Date Received: 07/30/97
Project: 301-001-02F
Date Sample Extracted: 07/30/97
Date Sample Analyzed: 07/30/97

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample IDGC Characterization

W Wall GC

The GC trace using the flame ionization detector (FID) showed the presence of low boiling compounds. The patterns displayed by these peaks are indicative of gasoline.

The low boiling compounds appeared as a broad hump of unresolved peaks eluting from $n\text{-C}_7$ to $n\text{-C}_{13}$. The GC/ECD trace showed the possible presence of tetraethyl lead, a common additive to leaded gasolines. The low boiling product appears to have undergone extensive degradation.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chloroendate.

DRAFT

Date of Report: 08/14/97
Date Received: 07/30/97
Project: 301-001-02F
Date Sample Extracted: 07/30/97
Date Sample Analyzed: 07/30/97

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample IDGC Characterization

E Wall G

The GC trace using the flame ionization detector (FID) showed the presence of low boiling compounds. The patterns displayed by these peaks are indicative of gasoline.

The low boiling compounds appeared as a pattern of peaks eluting from *n*-C₇ to *n*-C₁₃. The GC/ECD trace showed the possible presence of tetraethyl lead, a common additive to leaded gasolines. The low boiling product appears to have undergone extensive degradation.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chloroendate.

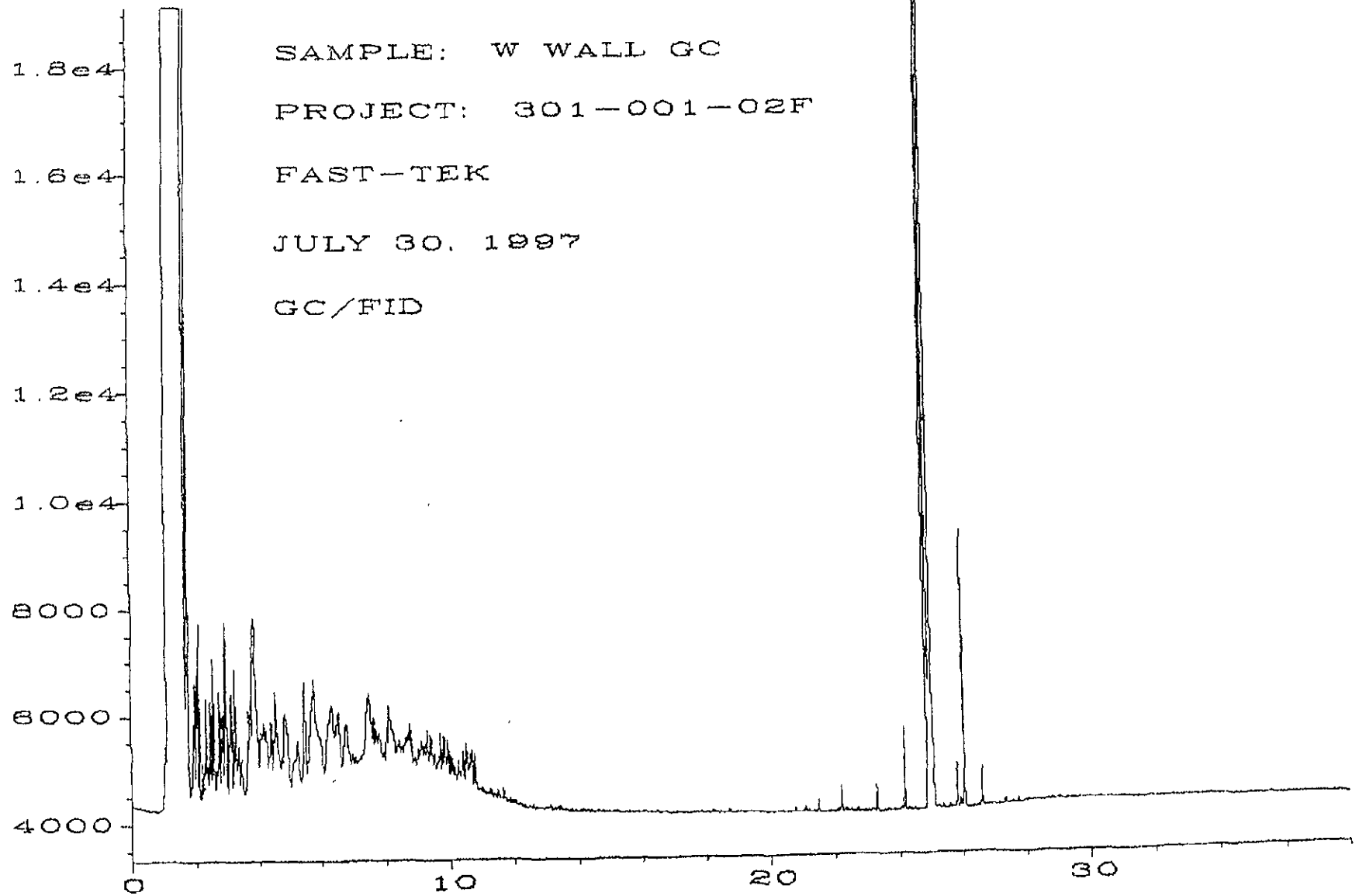


Fig. 1 in C:\NHPCHEM\4\DATA\07-30-97\007F0801.D

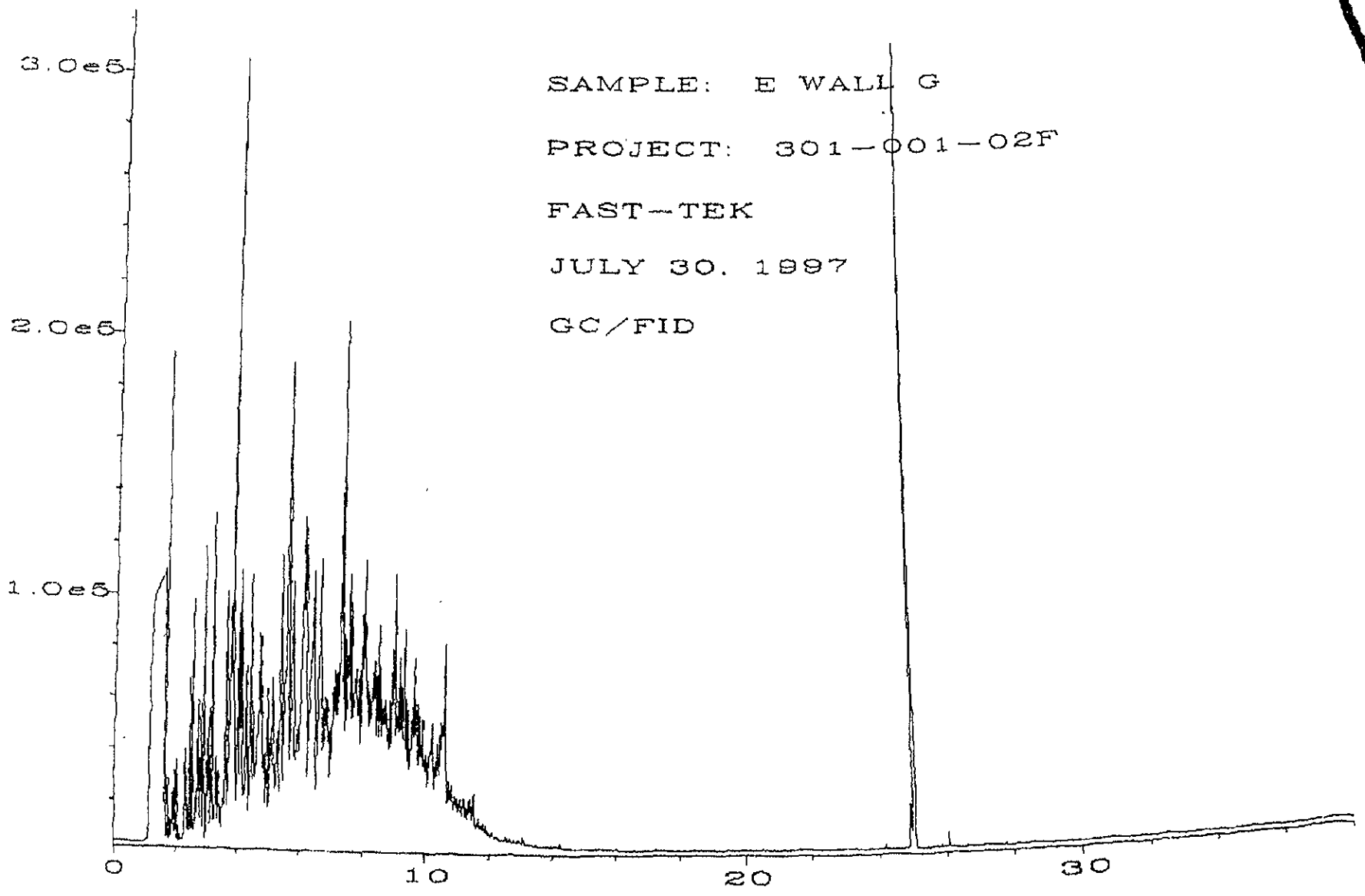
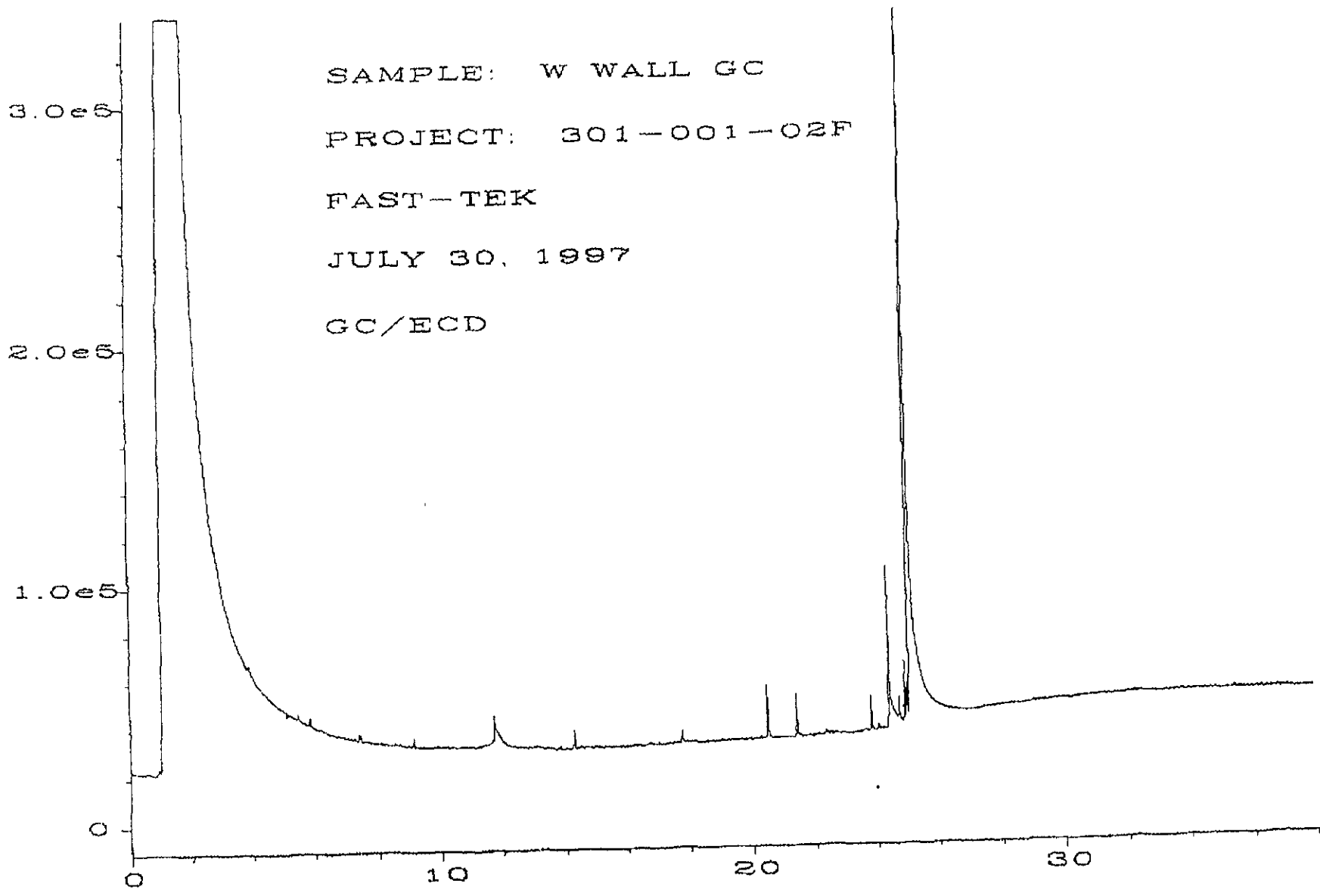


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Sig. 2 in C:\HPCHEM\4\DATA\07-30-97\007R0801.D

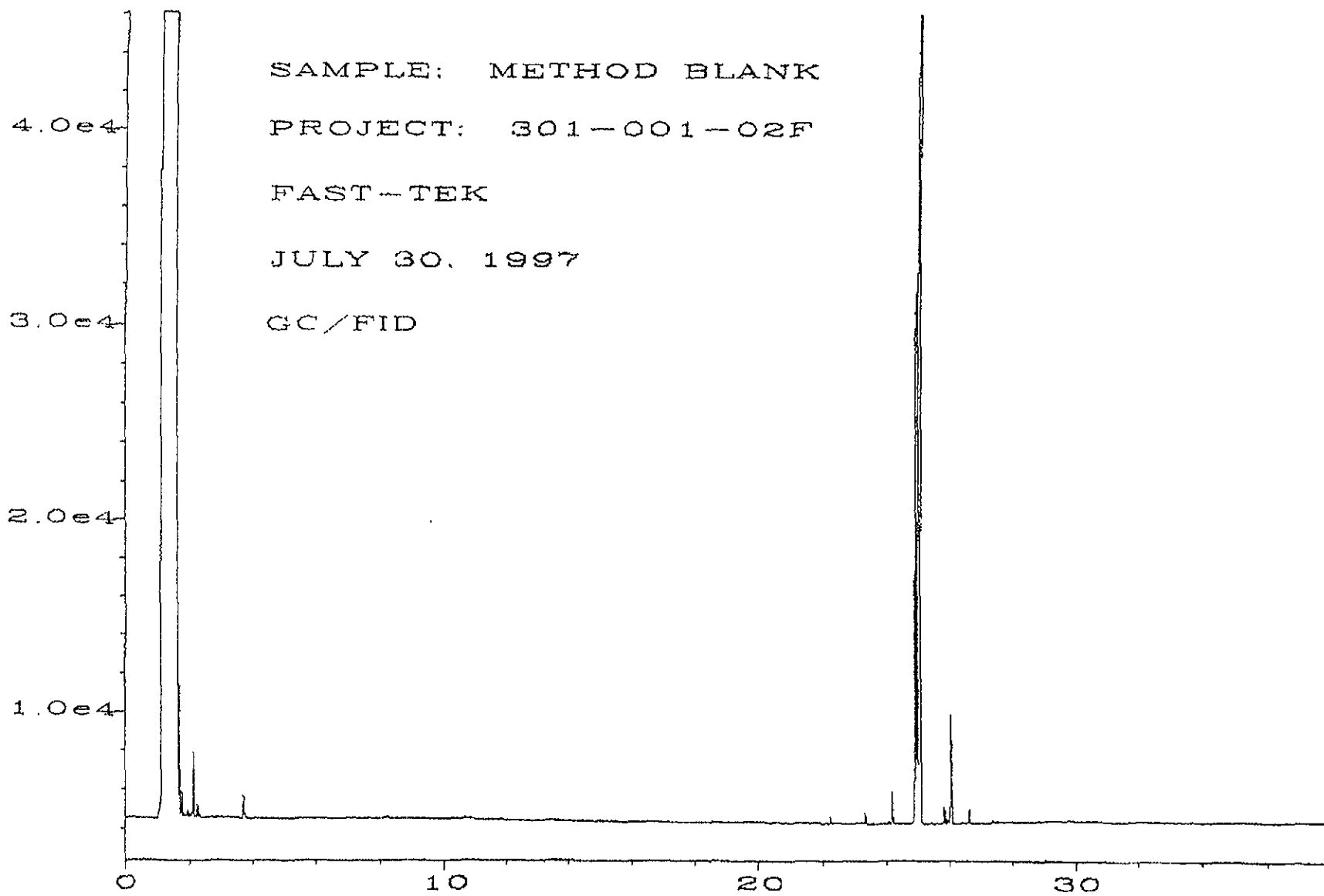


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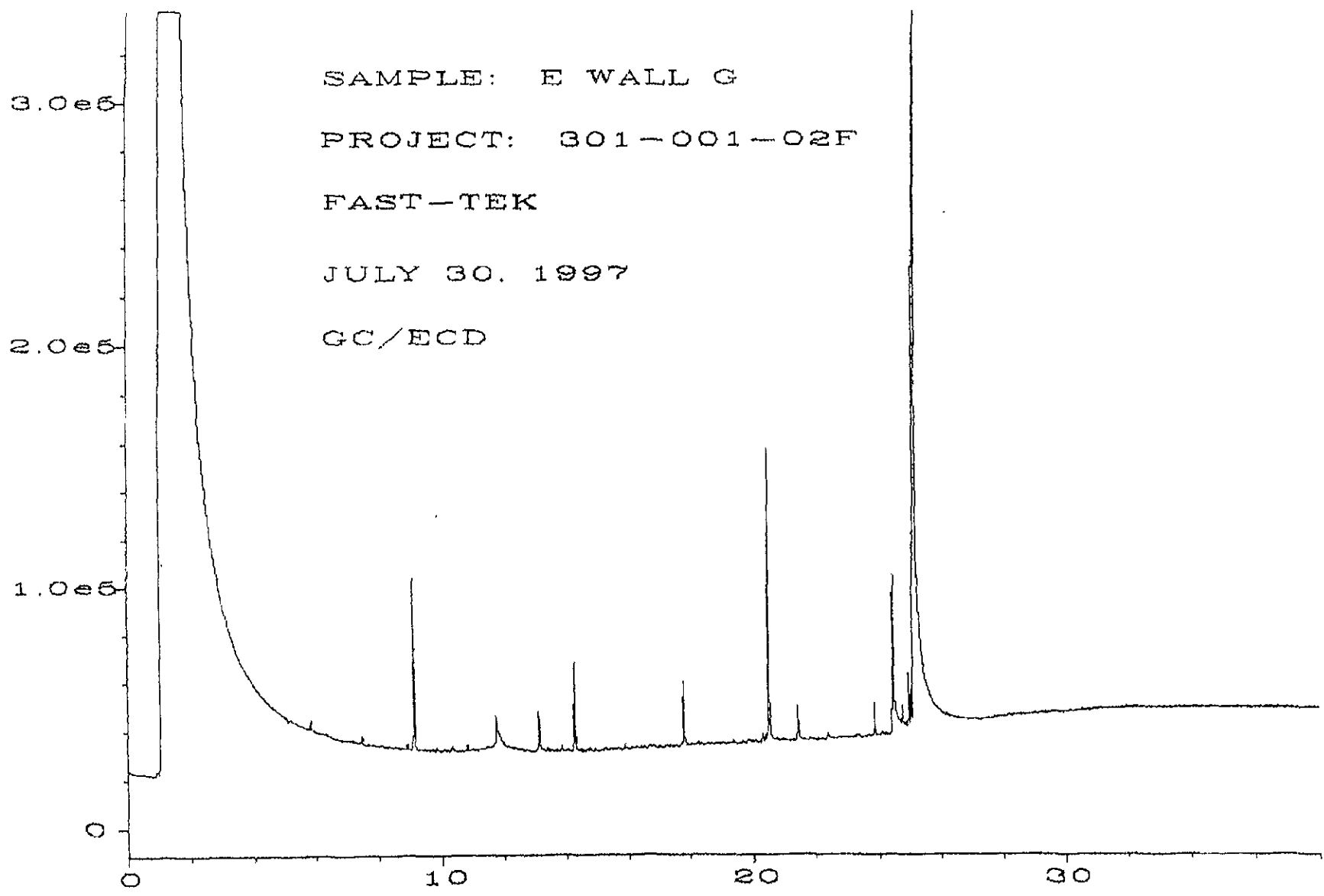


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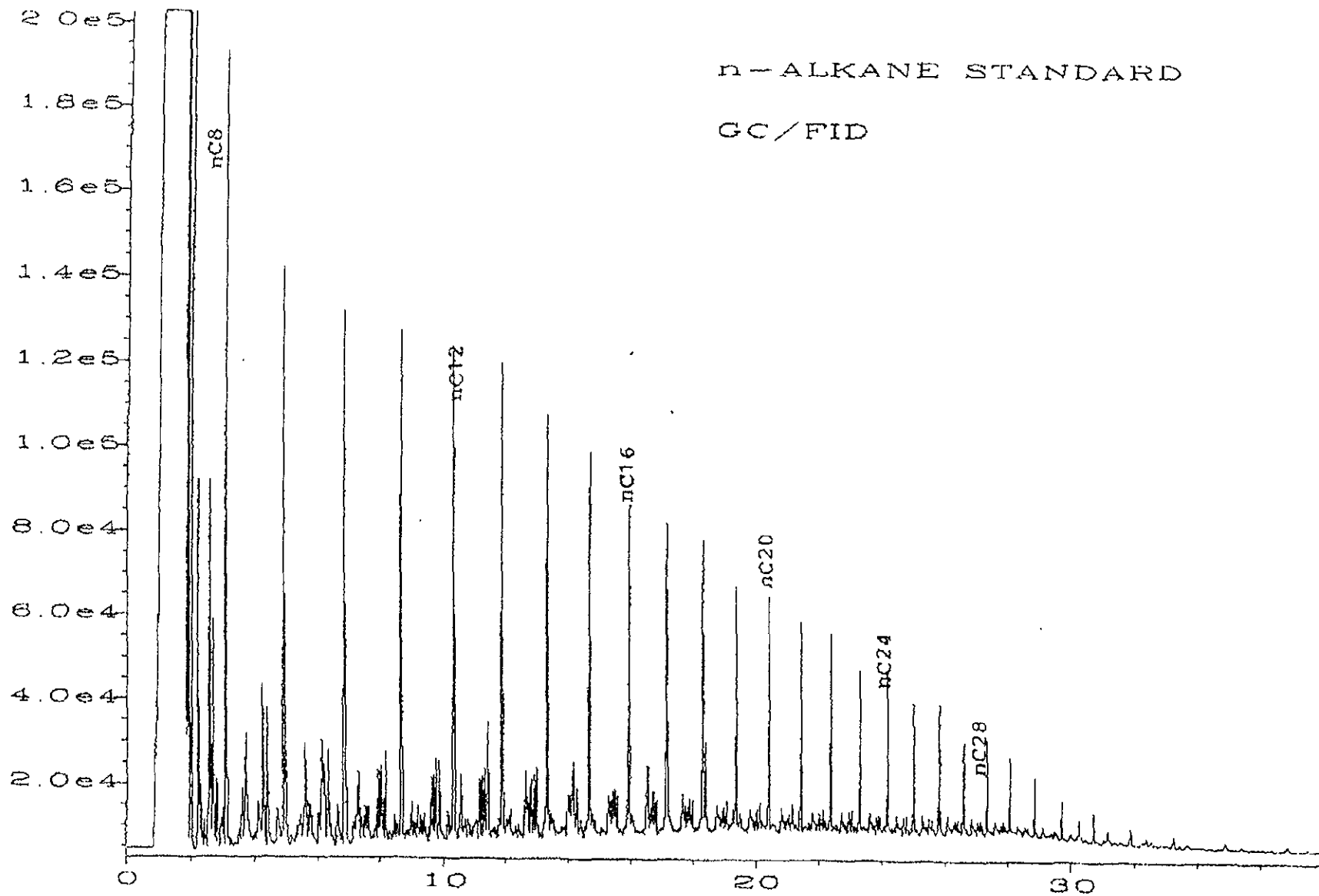


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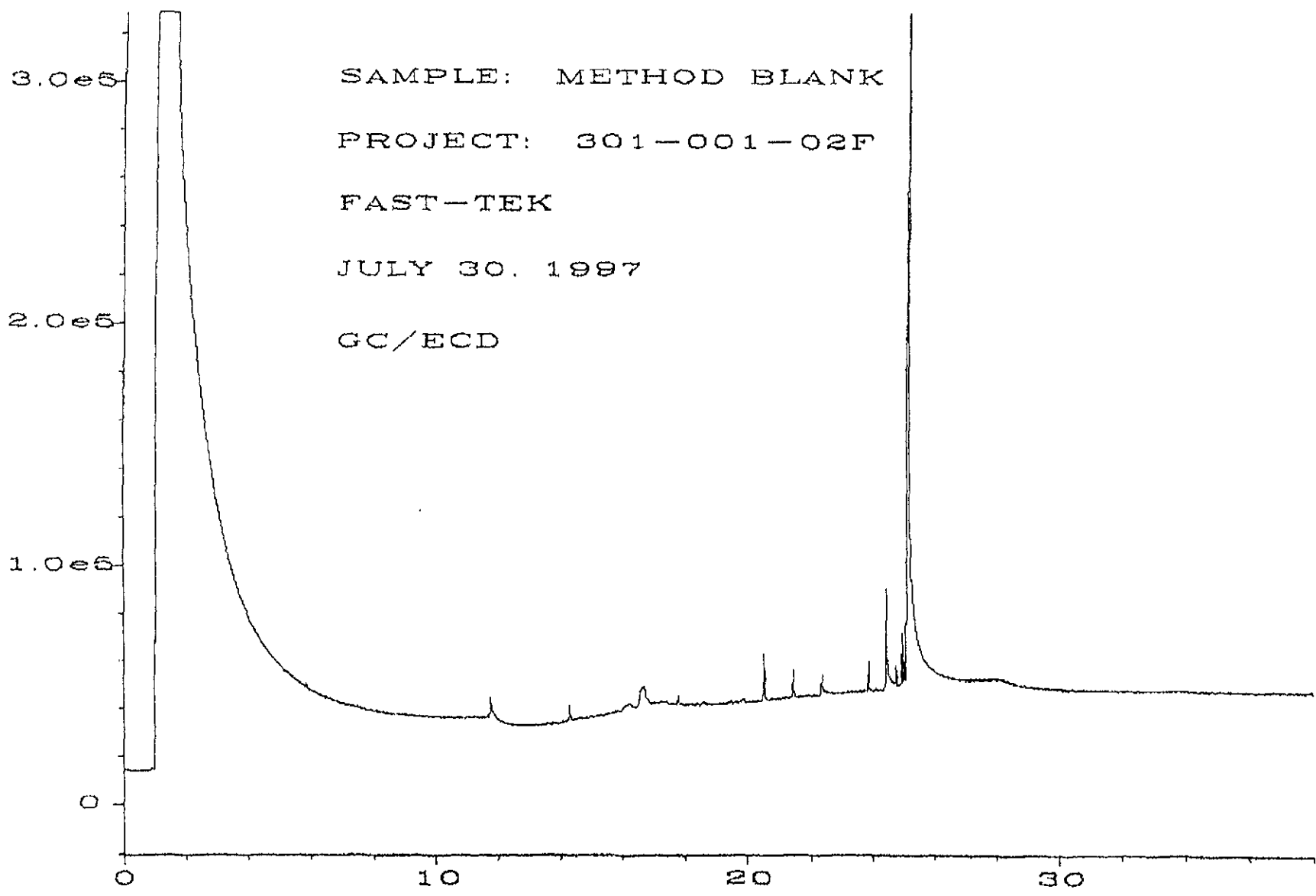


Fig. 2 in C:\HPCHEM\4\DATA\07-30-97\004R0801.D

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: July 23, 1997
Date Received: July 18, 1997
Project: 301-001-02F, Keeper, Emeryville
Date Samples Extracted: July 18, 1997
Date Extracts Analyzed: July 21, 1997

**RESULTS FROM THE ANALYSIS OF THE SLUDGE SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY CAPILLARY GAS CHROMATOGRAPHY
USING A FLAME IONIZATION DETECTOR (FID)
AND ELECTRON CAPTURE DETECTOR (ECD)**

Sample ID

GC Characterization

Tank 2 Sludge

The GC trace using the flame ionization detector (FID) showed the presence of low boiling compounds. The patterns displayed by these peaks are indicative of gasoline.

The low boiling compounds appeared as a pattern of peaks eluting from $n\text{-C}_7$ to $n\text{-C}_{12}$ showing a maximum near $n\text{-C}_7$. The GC/ECD trace showed the possible presence of tetraethyl lead, a common additive to leaded gasolines.

The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis. There is a second surrogate present that is seen on the GC/ECD trace at about 26 minutes which is dibutyl chlorendate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Beth Albertson, M.S.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.
Melanie Kirol, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 23, 1997

Paul Jones, Project Manager
FAST-TEK Engineering Support Services, Inc.
247-B Tewksbury Avenue
Point Richmond, CA 94801

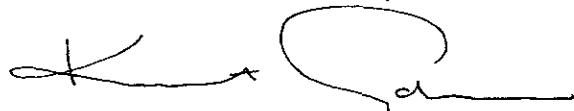
Dear Mr. Jones:

Included are the results from the testing of material submitted on July 18, 1997 from your 301-001-02F, Keeper, Emeryville project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
FAX: (510) 232-2823
NAA0723R.DOC

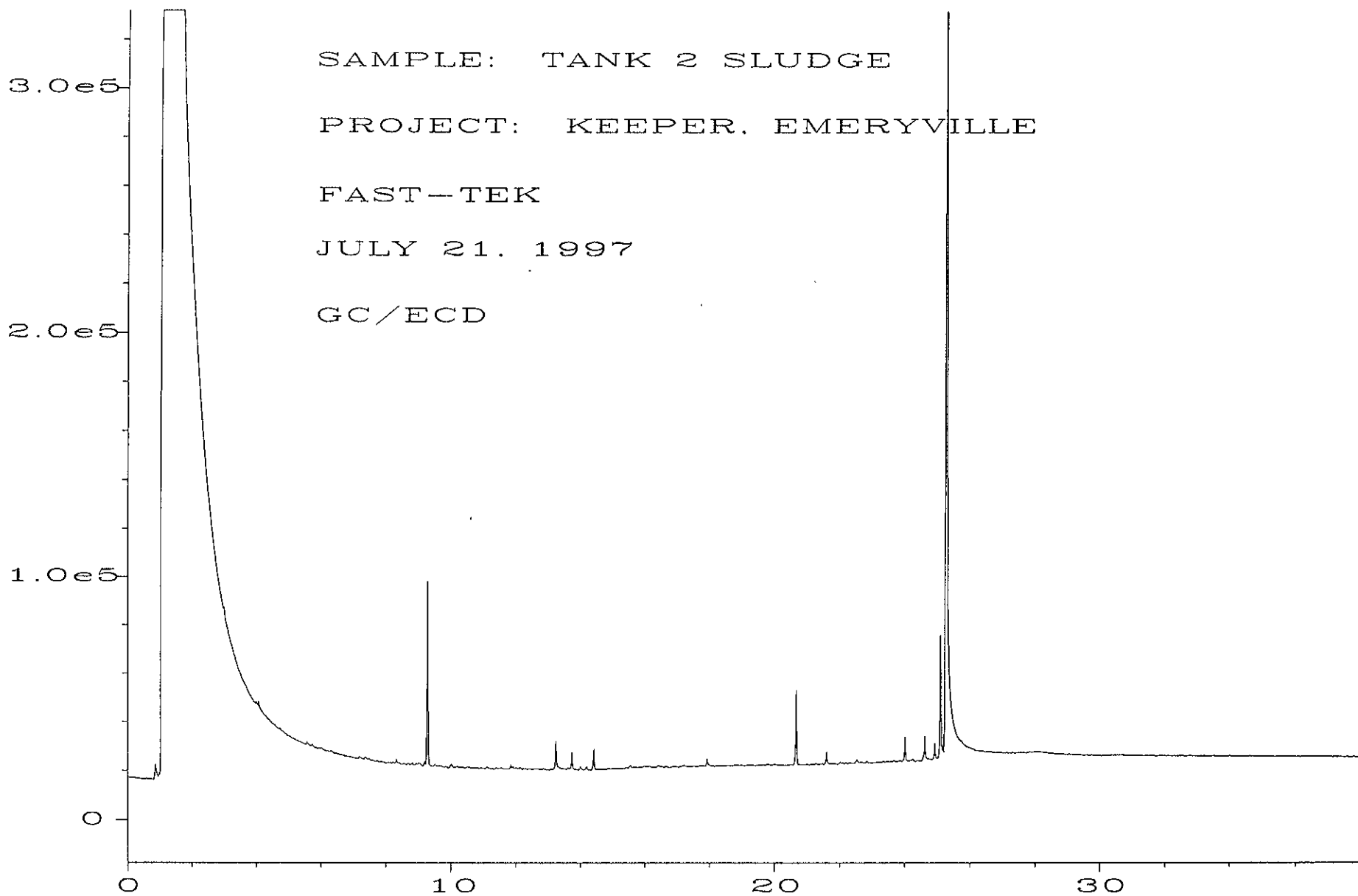


Fig. 2 in C:\HPCHEM\4\DATA\07-21-97\010R0401.D

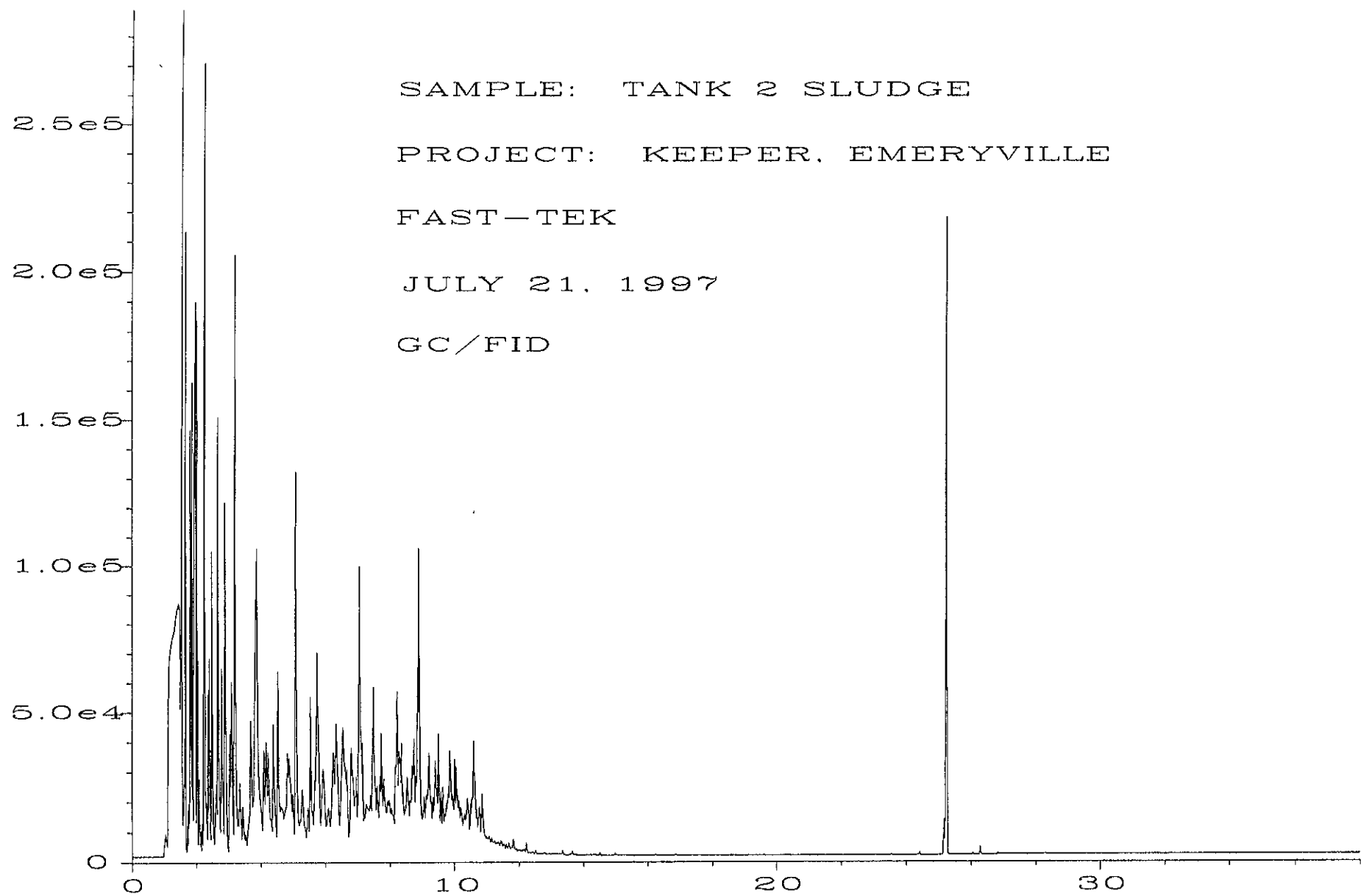


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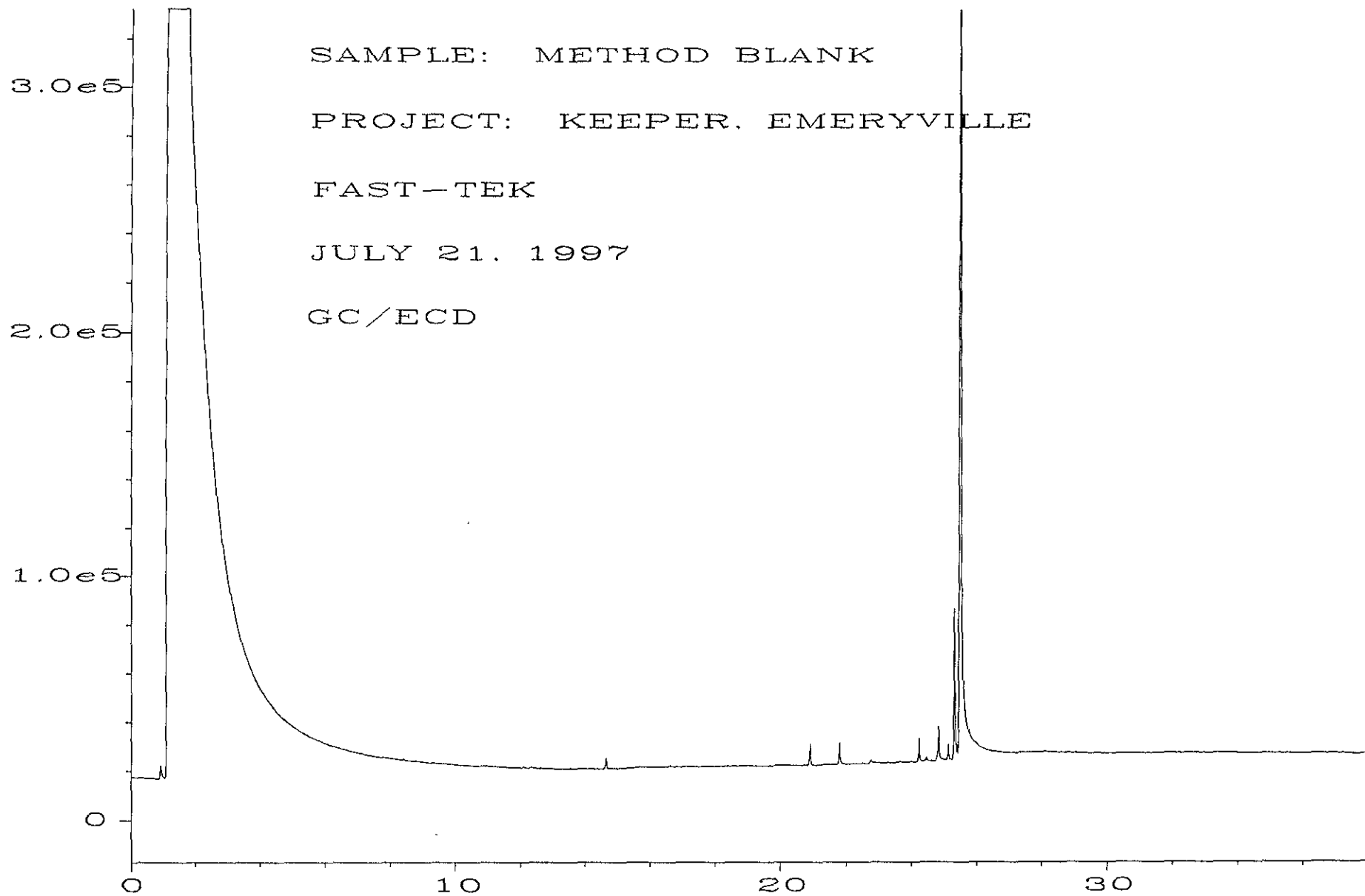
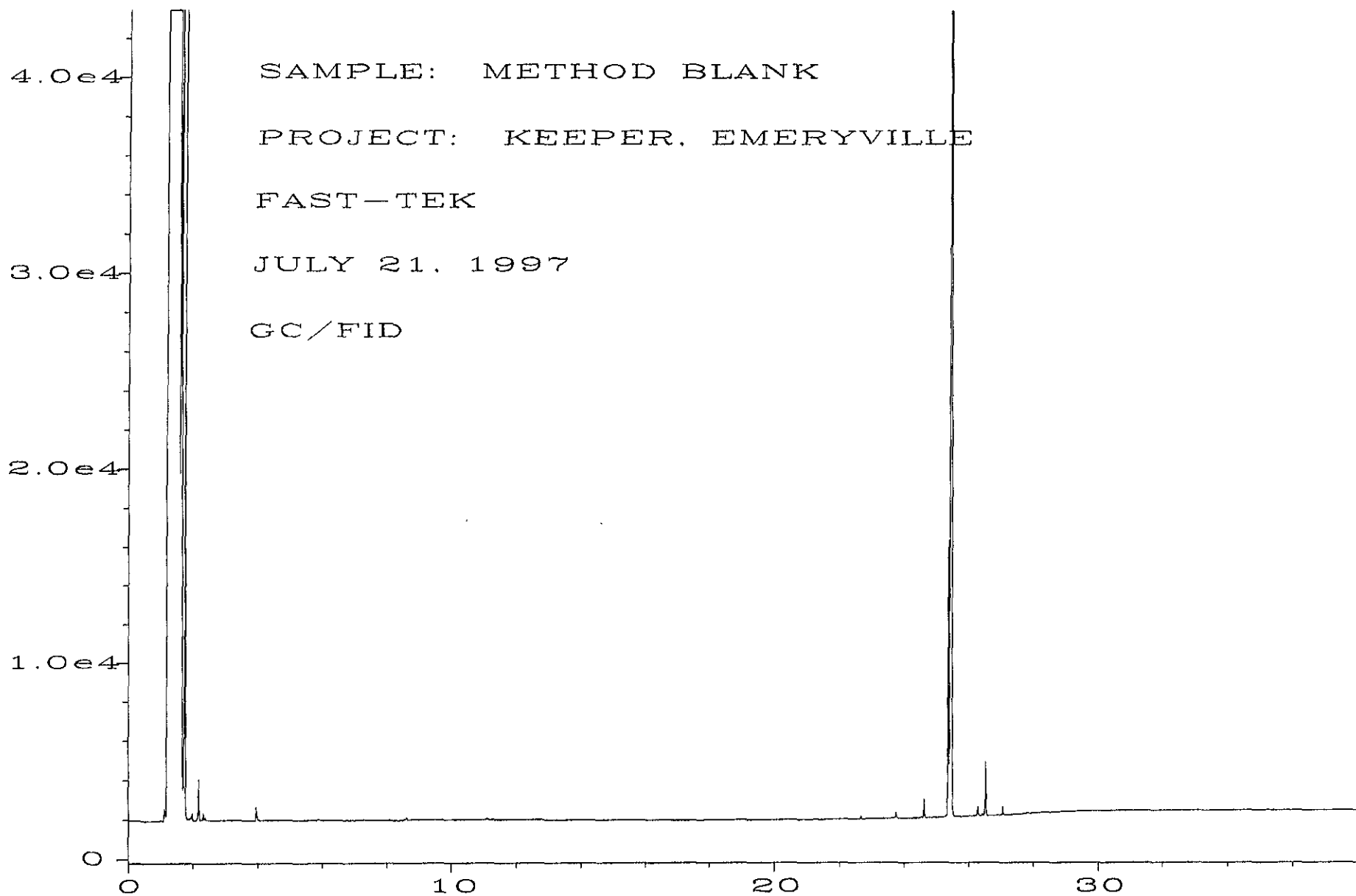


Fig. 2 in C:\HPCHEM\4\DATA\07-21-97\009R0401.D



Sig. 1 in C:\HPCHEM\4\DATA\07-21-97\009F0401.D

ANALYTICAL
 LABORATORY

(510) 796-1020 FAX (510) 796-1022
 FACILITY, CA 94603

PROBATION DEPARTMENT
 LABORATORY RECORD

REPORT TO: Paul James BILL TO: FAST-TEK
 COMPANY: FAST-TEK Engineering Support Services
247-B Tewksbury Avenue
Point Richmond, CA 94801
 TELE: (510) 232-2728 FAX #: (510) 232-2823
 PROJECT NUMBER: 301-001-02F PROJECT NAME: Keeper, Emeryville
 PROJECT LOCATION: 4343 San Pablo Avenue SAMPLER SIGNATURE: [Signature]

ANALYSIS REQUEST RUSH 24 HOUR 48 HOUR 5 DAY

| SAMPLE ID | LOCATION | SAMPLING | | # CONTAINERS | TYPE CONTAINERS | MATRIX | | | | | METHOD PRESERVED | |
|-----------|----------|----------|------|--------------|-----------------|--------|------|-----|--------|-------|------------------|------------------|
| | | DATE | TIME | | | WATER | SOIL | AIR | SLUDGE | OTHER | HCL | HNO ₃ |
| Tank 2 | Sludge | 7/17/97 | 1445 | 2 | VOA | | | | X | | | |
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| <input type="checkbox"/> | BTX & TPH as Gasoline (602/8020 & 8015) |
| <input type="checkbox"/> | THP as Diesel (8015) |
| <input type="checkbox"/> | Total Petroleum Oil & Grease (5520 ERF/5520 BLC) |
| <input type="checkbox"/> | Total Petroleum Hydrocarbons (418J) |
| <input type="checkbox"/> | EPA 601/8010 |
| <input type="checkbox"/> | EPA 602/8020 |
| <input type="checkbox"/> | EPA 608/8080 |
| <input type="checkbox"/> | EPA 608/8090 - PCBs Only |
| <input type="checkbox"/> | EPA 624/8240/8260 |
| <input type="checkbox"/> | EPA 625/8270 |
| <input type="checkbox"/> | CAH - 17 Metals |
| <input type="checkbox"/> | EPA - Priority Pollutant Metals |
| <input type="checkbox"/> | LEAD (7240/7421/2392/6010) |
| <input type="checkbox"/> | ORGANIC LEAD |
| <input type="checkbox"/> | REI |
| <input checked="" type="checkbox"/> | Fuel Fingerprint Scan |
| <input type="checkbox"/> | OTHER |

COMMENTS

LAB ID
 79569
 79570

RELINQUISHED BY: [Signature] DATE: 07/17/97 TIME: 11:10 RECEIVED BY: [Signature]
 RELINQUISHED BY: [Signature] DATE: 7/18/97 TIME: 9:15 RECEIVED BY: [Signature]
 RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY LABORATORY: _____

REMARKS:

n-ALKANE STANDARD

GC/FID

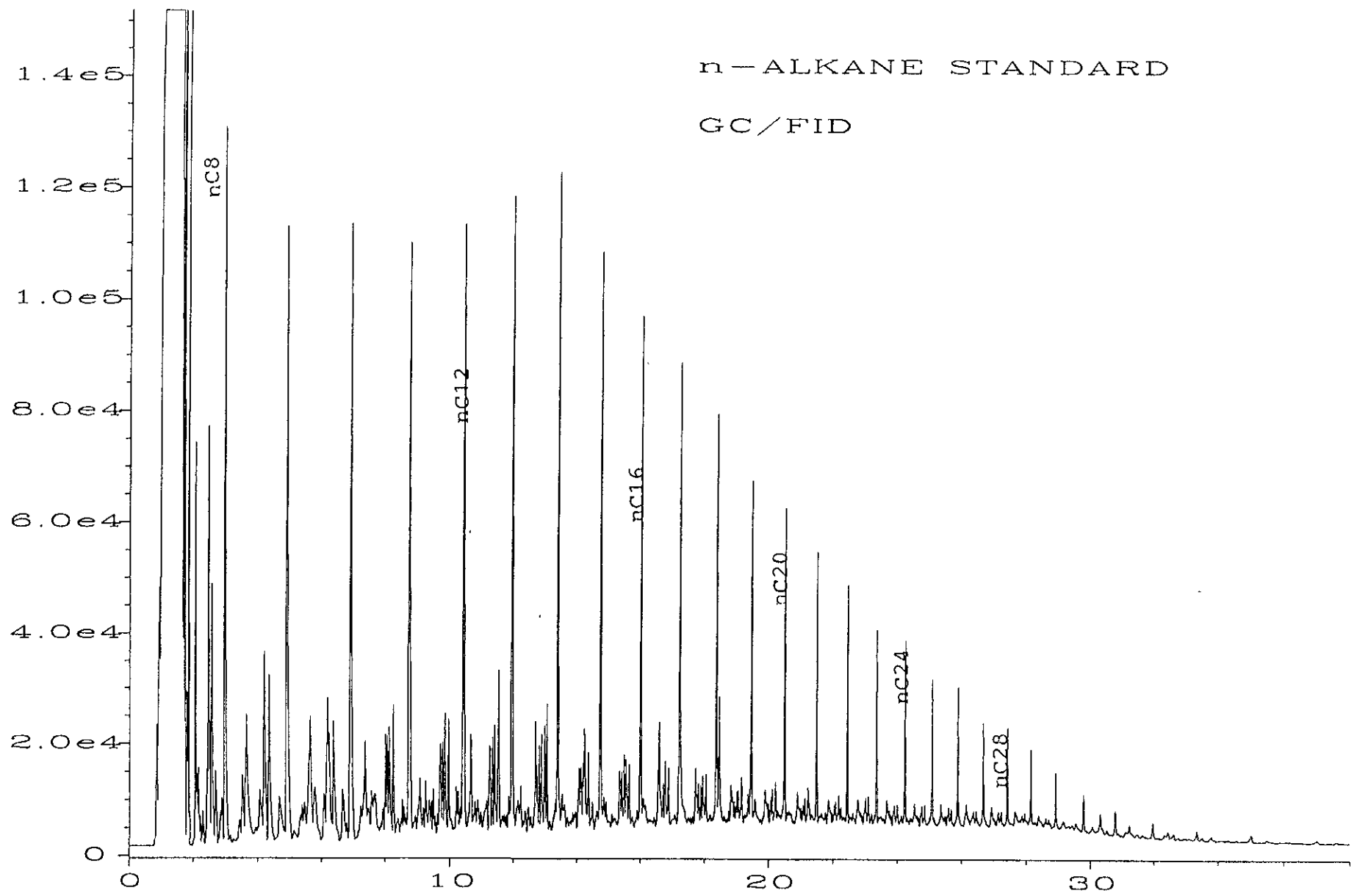


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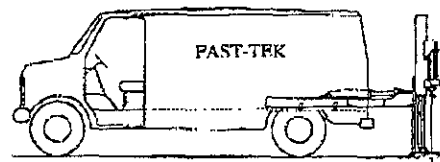
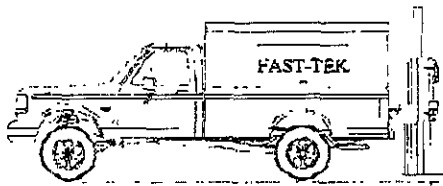
FAST-TEK Engineering Support Services

General Engineering Contracting License 589008: A, B, C-57, Haz., Asb.

Street Address: 247 B Tewksbury Ave., Pt. Richmond, CA 94801

Mailing Address: P.O. Box 10123, San Rafael, CA 94912

Telephone (510) 232-2728 • Facsimile (510) 232-2823 • e-mail: augerpro@aol.com

FACSIMILE TRANSMISSION**TO: Ms. Susan Hugo****FAX: (510) 337-9335****DATE: 07/29/97****JOB #: 301-001-02F****FROM: Paul E. Jones****TOTAL SHEETS: 2**

Geoprobe Drilling • Excavating • Hollow Stem Auger Drilling • Waste Disposal • Vapor Extraction
Concrete Coring and Cutting • Utility Locating and Borehole Clearance • In-Situ Remediation Delivery
Systems • Oxy-Plug™ Injections • Limited Access Drilling • Traffic Control Plans and Equipment

MESSAGE:**Standard Brands Paint Co.**

Permit Amendment Request

4343 San Pablo Avenue

Emeryville, California

Following is the request to amend the existing UST removal permit at the above-referenced site per our discussion on July 28, 1997. Hard copy will follow.

If you have any questions or comments, I may be reached by telephone at (510) 232-2728-230 or by pager at (415) 451-6434.

A handwritten signature in cursive script, appearing to read "P. Jones".

NOTES: If you did not receive the complete transmission, please call. This fax is privileged and confidential. If you are not an intended recipient, you are notified that any disclosure, dissemination or duplication of this fax is not authorized, and no waiver of any privilege or confidentiality is intended by your receipt of this transmission.