

ALCO
HAZMAT
94 FEB 18 PM 2:47

February 18, 1994

Ms. Jennifer Eberle
Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

Dear Ms. Eberle:

I am pleased to transmit the results of the recent monitoring and sampling program conducted at ~~Oakland Auto Parts and Tires~~ ⁷⁰⁶ on Harrison Street in Oakland.

Please call with any questions that you might have.

Sincerely,



Bo K. Gin

potent. maps? 3 events
~~OTG in MW3?~~ OK



ALCO
HAZMAT
94 FEB 18 PM 2:47

February 4, 1994

Mr. Bo K. Gin
Oakland Auto Parts & Tires
288 Eleventh Street
Oakland, CA 94706

Subject: Quarterly Monitoring and Sampling Report, December, 1993
706 Harrison Street, Oakland, CA

Dear Mr. Gin:

Dennis Bates Associates, Inc. (DBA) has prepared this report documenting the results of a quarterly monitoring and sampling program conducted on December 14, 1993 at ~~Oakland Auto Parts & Tires~~ ^{706 Harrison} ~~288 Eleventh Street~~ ^{B.G.}. (See Site Location and Well Location Maps, Plates 1 and 4.) A summary of monitoring and sampling activities is provided below:

METHODOLOGY

DBA's sampling protocol and field procedures are described in the attached field notes (Appendix A).

On 10 August 1993, prior to being developed, the measured depths to water at the site were 17.1 feet in MW1, 17.05 feet in MW2, and 16.9 feet in MW3. At that time, no free product was observed in any of the monitoring wells (MW1, MW2, MW3).

On 13 August 1993, after the wells had been developed, the measured depths to water at the site were 17.4 feet in MW1, 17.05 feet in MW2, and 17.05 feet in MW3.

On 7 October 1993, the top of casing, TOC, elevations above mean sea level (AMSL) were determined by Bates & Bartley of Berkeley, a licensed land surveying firm. A copy of these elevations is included as Appendix B. The depths to water and groundwater elevations AMSL are presented in Table 1.

Environmental Consulting ■ Hazardous Materials Management
494 Alvarado St. Suite B ■ Monterey, CA 93940 ■ 408 646 0668 ■ FAX 408 646 8036
2011 Feliz Road ■ Novato, CA 94945 ■ 415 892 4131 ■ FAX 415 892 1912

On 14 December 1993, measured depths to water at the site were 17.27 feet in MW1, 18.28 feet in MW2, and 17.7 feet in MW3. Groundwater sampling was conducted in accordance with the Standard Operating Procedures in Appendix A.

FINDINGS

The groundwater flow directions are to the south towards the Oakland Inner Harbor. Groundwater was flowing at 205° on 8/10/93, at 213° on 08/14/93, and at 195° on 12/14/93. These data are consistent with the groundwater flow directions reported by Kaprealian Engineering (KEI) for the Unocal site located at the corner of Eighth and Harrison (808 Harrison Street).

Groundwater samples from the 14 December 1993 monitoring and sampling program were analyzed for TPH-G with Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX) by EPA method 8015/8020 (modified). Analytical results for December, 1993 are shown on Table 2 and a summary of all groundwater results, to date, is shown on Table 3. In December, TPHg was found to range from ND in MW-3 to 17,000 µg/l in MW-1. Benzene ranged from ND in MW-3 to 9,200 µg/l in MW-1. TPHg and Benzene were also detected in MW-2, located upgradient of the previous underground tanks.

Sample analysis was done by Trace Analytical Laboratories of Hayward, CA, a California State certified laboratory. Copies of the laboratory reports and chain-of-custody documents are included in Appendix C. ✓

On 14 December 1993, water samples were taken from the four drums containing equipment wash and purge water from each monitoring well. MW1 (Sample MW1B) was ND for TPHg/BTEX, MW2 (Sample MW2B) contained TPHg at 81 ppb and ND for BTEX, MW3 (Sample MW3B) was ND for TPHg and BTEX. No TPHg or BTEX was detected from the drum containing wash water from the well installation. These analytical results are included in Appendix C.

The next quarterly monitoring and sampling for this site is scheduled for March of 1994. ACDEH will be notified at least three working days prior to the field work.

Included is a second signed copy of this report which should be forwarded to: Ms. Jennifer Eberle.



John H. Sammons, Ph.D.
Dennis Bates Associates, Inc.



Howard E. Whitney, R.G. ✓

cc: Monterey
File

C:\OAKLAND\A\LETGIN\204



TABLE 1
 SUMMARY OF DEPTHS TO GROUNDWATER
 AND
 GROUNDWATER ELEVATIONS ABOVE MEAN SEA LEVEL

WELL	DATE	DEPTH TO GROUND WATER	TOC ELEVATION AMSL ✓	GROUNDWATER ELEVATION AMSL
MW1	08/10/93	17.1	29.15 ✓	12.05
MW2	08/10/93	17.05	30.51 ✓	13.46
MW3	08/10/93	16.9	29.77 ✓	12.87
MW1	08/13/93	17.4	29.15 ✓	11.75
MW2	08/13/93	17.05	30.51 ✓	13.46
MW3	08/13/93	17.05	29.77 ✓	12.72
MW1	12/14/93	17.27	29.15 ✓	11.88
MW2	12/14/93	18.28	30.51 ✓	12.23
MW3	12/14/93	17.7	29.77 ✓	12.07

TABLE 2

CURRENT ANALYTICAL DATA FOR GROUNDWATER SAMPLES

TPH Gasoline (TPHg)
Benzene (B), Toulene (T), Ethyl Benzene (EB), Xylenes (X)

12/14/93
All Results Reported in PPB ($\mu\text{g/l}$)

Well	TPHg	B	T	EB	X
MW-1	17,000	9,200	1,200	440	540
MW-1A (duplicate)	12,000	6,400	360	330	200
MW-2	16,000	3,200	4,200	500	1,700
MW-3	ND	ND	ND	ND	ND

ND = Not Detected at the method reporting limit
NA = Not Analyzed
NS = Not Sampled

MW-1 on 12/14/93 was collected using the 12 VOC submersible pump.

MW-1A on 12/14/93 was collected using a disposable bailer immediately after MW-1 was collected.

TABLE 3

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

TPH AS GASOLINE (TPHg)
 BENZENE (B), TOLUENE (T), ETHYL BENZENE (EB), XYLENES (X)
 ALL RESULTS REPORTED IN MICROGRAMS/LITER (µg/l)

WELL	DATE	TPHg	B	T	EB	X
MW1	08/13/93	20,000	8,500	640	280	440
MW1	12/14/93	17,000 ✓	9,200 ✓	1,200	4400	540
MW1A	12/14/93	12,000	6,400	360	330	200
MW2	08/13/93	34,000	6,800	10,000	740	3,900
MW2	12/14/93	16,000 ✓	3,200 ✓	4,200	500	1,700
MW3	08/13/93	ND	ND	ND	ND	ND
MW3	12/14/93	ND ✓	ND ✓	ND	ND	ND

OTG?

MW1 on 12/14/93 was collected using the 12 VOC submersible pump.

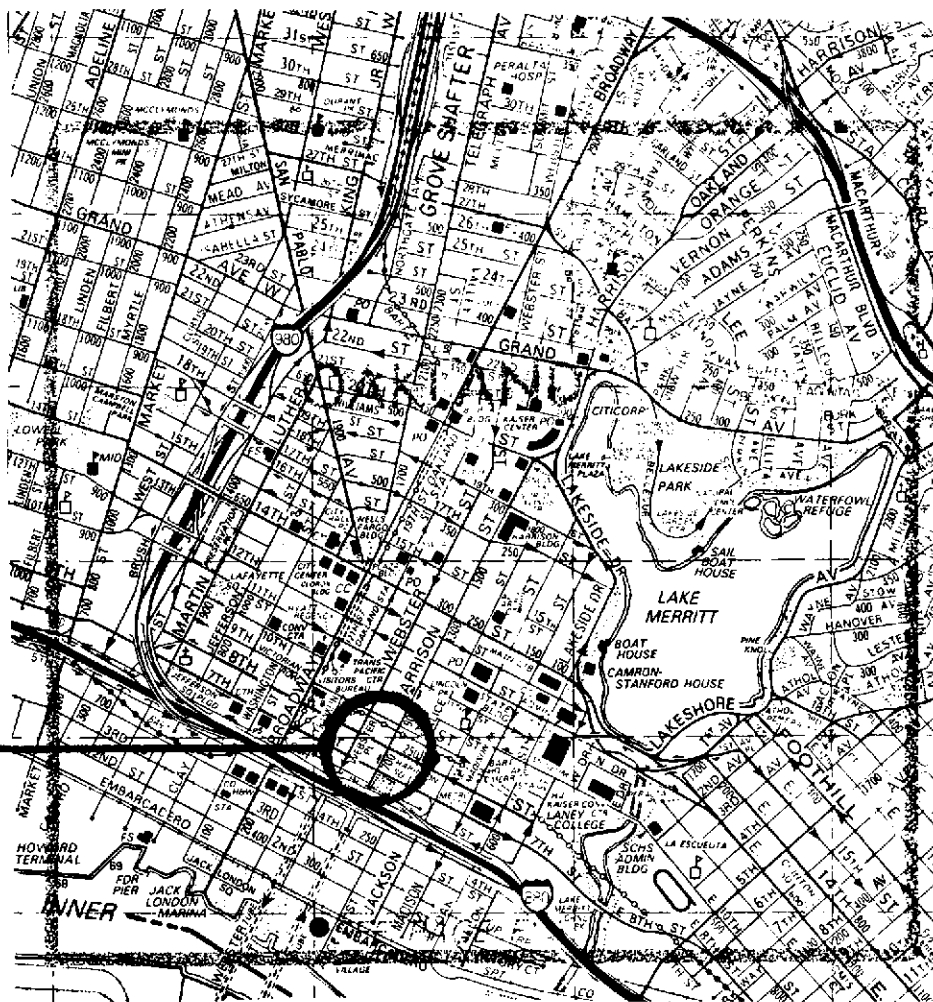
MW1A on 12/14/93 was collected using a disposable bailer immediately after MW1 was collected.

ND = NOT DETECTED AT THE METHOD REPORTING LIMIT

NA = NOT ANALYZED

NS = NOT SAMPLED

SITE



TITLE: SITE LOCATION
SITE: OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET, OAKLAND, CA.

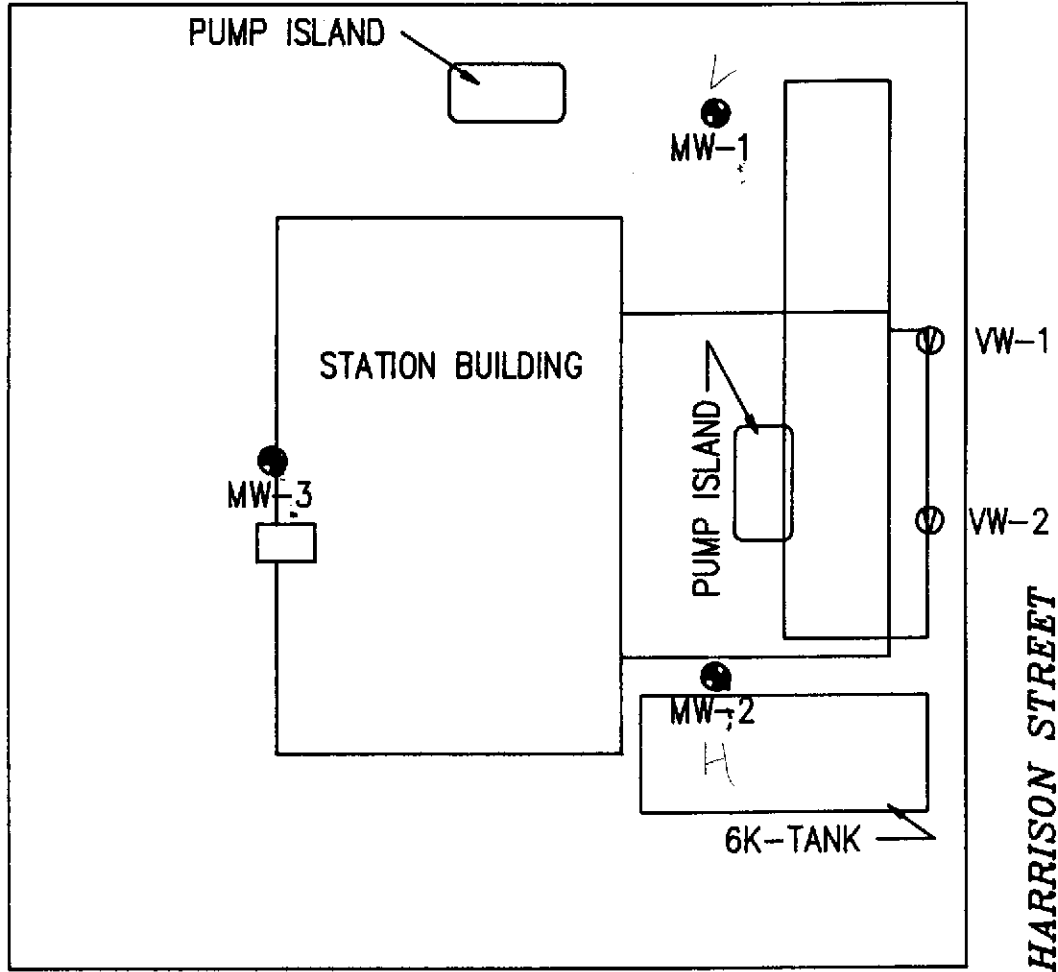
SCALE:
PROJECT # 1514N
DATE:

DENNIS BATES ASSOCIATES, INC.

494 Alvarado Street, Suite B Monterey, CA. 93940
2011 Feliz Road, Novato, CA. 94945

PLATE:
1

SEVENTH STREET



TITLE: SITE PLAN & WELL LOCATIONS
SITE OAKLAND AUTO PARTS
ADDRESS: 706 HARRISON STREET, OAKLAND, CA.

SCALE: 1 INCH = 20 FEET
PROJECT # 1514N
DATE: 20 JANUARY 1994

DENNIS BATES ASSOCIATES, INC.

494 Alvarado Street, Suite B Monterey, CA. 93940
1020 RAILROAD AVE. SUITE E, NOVATO, CA. 94945

PLATE:

4

Appendix A

DBA Standard Operating Procedures

DENNIS BATES ASSOCIATES, INC.
STANDARD OPERATING PROCEDURE
SOP 9

FIELD PROCEDURES FOR GROUNDWATER MONITORING
AND
SAMPLE COLLECTION

REFERENCES: DBA'S SOP'S 3,5,6,7

Water Level Measurements

Well caps/plugs from all wells to be sampled are to be removed prior to making water level measurements on sampling. Notation will be made on the Daily Field Record of the condition of the well head, if any odors are detected, if the well is under pressure or any other significant findings or observations. Depth to water in monitoring wells will be determined to the nearest 0.01 foot using a mark, placed on the top of the casing by a licensed land surveyor, as datum.

Determination of the Presense of Free Product Sheen

In wells that have never been sampled previously or where the likelihood of a sheen or product is present a transparent disposable bailer will be lowered into the well in such a manner that only part of the bailer is submerged. When the bailer is withdrawn from the well the surface of the water is examined for "sheen" as determined by iridescence (rainbow) or emulsification.

Free Product Thickness Measurements

Free product measurements are determined to the same top-of-casing datum as described for water level measurements. Depths to or free product thickness measurements are made to the nearest 0.01 foot.

Total Well Depth Measurements

The total well depth is determined from the same top-of-casing datum as described for water level measurements. Total well depth measurements are made to the nearest 0.05 foot.

Well Purging

The purging rate for a particular well will depend upon the estimated specific capacity for the well. In moderate to high yield formations the purging device will be placed near the top of the screened interval to ensure that non-stagnant water will move upward in the screen interval. In low-yield wells the purging device will be placed to remove water from the bottom of the screened interval.

Field parameters of pH, temperature and electrical conductivity (EC) in the purged water will be monitored at a minimum rate of 2 readings per casing volume purged. Stabilization of the parameters will be indicated by at least three near constant sets of readings. A low-yield well be de-watered during purging. Low-yield wells will not be purged dry if the rate of recharge

is such that water will cascade down the sides of the casing. Low yield wells will be sampled as soon as the well has recovered to a level where sufficient water is available.

Groundwater removed from wells is generally stored on-site in appropriate containers or disposed of under agreement with local sanitary districts. Field equipment will be calibrated daily following the manufacturer's specifications and EPA SW-846.

Sample Collection

Samples will be collected when a minimum of 4 casing volumes have been purged and parameters have stabilized. All samples will be collected in such a manner to minimize the volatilization and/or oxidization of a sample during transfer to the sample container. Samples will be placed in appropriate containers for the type of analyses to be done. Samples for dissolved metals will be filtered by the laboratory prior to analysis.

Equipment Cleaning/Decontamination

All equipment which will be placed in any well will be cleaned and rinsed with distilled water prior to use.

BATES AND BAILEY

LAND SURVEYORS

15 SHATTUCK SQUARE • BERKELEY, CA 94704
TELEPHONE (510) 843-2007

P.O. BOX 592
BERKELEY, CA 94701-0592

October 7, 1993

John Sammons, Ph.D.
2011 Feliz Road
Novato, CA 94945

Dear Mr. Sammons,

The well elevations at the property at 706 Harrison ✓
Street, Oakland are as follows based on Mean Sea Level
datum.

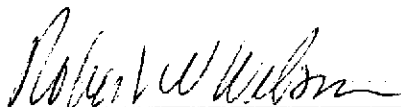
Monitor Well	Top of casing elevation
1	29.15 ✓
2	30.51 ✓
3	29.77 ✓

The bench mark used was No. 25/A located at the
northeastern corner of 7th Street and Harrison Street.
Elevation is 25.81 City of Oakland datum or 28.81 Mean Sea
Level datum.

Enclosed are prints indicating the location of all the
wells.

Sincerely,



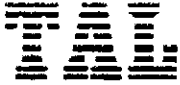

Robert W. Wilson - L.S. #3833

RWW/dd

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (510) 783-6960
Facsimile (510) 783-1512



January 13, 1994

Mr. John Sammons
Dennis Bates Associates, Inc
2011 Feliz Road
Novato, California 94945

Dear Mr. Sammons:

Trace Analysis Laboratory received eight water samples and seven soil samples on December 14, 1993 for your project No. ENV 1514N, Oakland Auto (our custody log number 3927).

These samples were analyzed according to your chain of custody. Our analytical report and the completed chain of custody form are enclosed for your review.

Trace Analysis Laboratory is certified under the California Environmental Laboratory Accreditation Program. Our certification number is 1199.

If you should have any questions or require additional information, please call me.

Sincerely yours,

A handwritten signature in cursive script, reading 'Scott T. Ferriman'. The signature is written in dark ink and is positioned above the typed name.

Scott T. Ferriman
Project Specialist

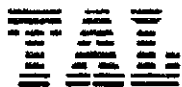
Enclosures

Trace Analysis Laboratory, Inc.

3423 Investment Boulevard, #8 • Hayward, California 94545

Telephone (510) 783-6960

Facsimile (510) 783-1512



LOG NUMBER: 3927
 DATE SAMPLED: 12/14/93 ✓
 DATE RECEIVED: 12/14/93
 DATE ANALYZED: 12/24/93
 DATE REPORTED: 01/13/94

CUSTOMER: Dennis Bates Associates, Inc.

REQUESTER: John Sammons

PROJECT: No. ENV 1514N, Oakland Auto ✓

Sample Type: Water

Method and Constituent:	Units	MW-1		MW-1A		MW-1B	
		Concentration	Reporting Limit	Concentration	Reporting Limit	Concentration	Reporting Limit

DHS Method:

Total Petroleum Hydrocarbons as Gasoline	ug/l	17,000 ✓	540	12,000	270	ND	50
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Modified EPA Method 8020 for:

Benzene	ug/l	9,200 ✓	40	6,400	20	ND	0.50
Toluene	ug/l	1,200	21	360	10	ND	0.50
Ethylbenzene	ug/l	440	23	330	12	ND	0.50
Xylenes	ug/l	540	61	200	30	ND	1.5

Method and Constituent:	Units	MW-2		MW-2B		MW-3	
		Concentration	Reporting Limit	Concentration	Reporting Limit	Concentration	Reporting Limit

DHS Method:

Total Petroleum Hydrocarbons as Gasoline	ug/l	16,000 ✓	670	81	50	ND ✓	50
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Modified EPA Method 8020 for:

Benzene	ug/l	3,200 ✓	50	ND	0.50	ND ✓	0.50
Toluene	ug/l	4,200	26	ND	0.50	ND	0.50
Ethylbenzene	ug/l	500	29	ND	0.50	ND	0.50
Xylenes	ug/l	1,700	76	ND	1.5	ND	1.5

Concentrations reported as ND were not detected at or above the reporting limit.



LOG NUMBER: 3927
 DATE SAMPLED: 12/14/93
 DATE RECEIVED: 12/14/93
 DATE ANALYZED: 12/24/93
 DATE REPORTED: 01/13/94
 PAGE: Two

Sample Type: Water

Method and Constituent:	Units	MW-3B		Wash		Method Blank	
		Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit
DHS Method:							
Total Petroleum Hydro- carbons as Gasoline	ug/l	ND	50	ND	50	ND	50
Modified EPA Method 8020 for:							
Benzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Toluene	ug/l	ND	0.50	ND	0.50	ND	0.50
Ethylbenzene	ug/l	ND	0.50	ND	0.50	ND	0.50
Xylenes	ug/l	ND	1.5	ND	1.5	ND	1.5

QC Summary:

% Recovery: 82
 % RPD: 8.5

Concentrations reported as ND were not detected at or above the reporting limit.

3321

Sample Analysis Request / Chain of Custody

DENNIS BATES ASSOCIATES, INC.
 2011 FELIZ ROAD,
 NOVATO, CA 94945
 (415) 892 4131 FAX (415) 892 1912

JOB NAME: Oakland Auto

JOB NUMBER: ENV 1514N P.O. Number: _____

Samplers: John Simmons
Justine Dubowitz

Sample I.D.	Date	Time	Comp.	Grab	Location	No. of Containers	Matrix	ANALYSES							Turn Around Time
								TPH as Gasoline	BTXE	TPH as Diesel	Organic Lead	Total Lead	% Moisture	Rc Dennis Bates 12/14/93	
PE1-2.5'	12/14/93	10:30		X	7th & Harrison	1	soil						X		Reg TAT
PE2-1.5'	12/14/93	11am											X		
PE3-2'		11:15											X		
* VW1-1		11:25											X		
* VW2-1		11:30											X		
* VW1-2		11:35											X		
* VW2-2		11:40											X		
MW2B		11:45				2	water	X	X				X		
MW2B		11:50				2	water	X	X				X		
MW1B		11:55				2	water	X	X				X		
WASH	12/14/93	12pm			" "	2	water	X	X				X		

Relinquished By (Signature)	Date	Time	Accepted By (Signature)
<u>Justine Dubowitz</u>	12/14/93	0330	<u>Scott T. Simmons</u>

Laboratory Name & Address: _____

REMARKS:
 * composite VW1-1 with VW1-2
 composite VW2-1 with VW2-2

Sample Analysis Request / Chain of Custody

DENNIS BATES ASSOCIATES, INC.
 2011 FELIZ ROAD,
 NOVATO, CA 94945
 (415) 892 4131 FAX (415) 892 1912

JOB NAME: Oakland Auto
 JOB NUMBER: 001514W P.O. Number: _____

Samplers: John Samson
Justine

Sample I.D.	Date	Time	Comp.	Grab	Location	No. of Containers	Matrix	ANALYSES					Turn Around Time	
								TPH as Gasoline	BTXE	TPH as Diesel				
MW1	12/14/93				Oakland	93	Water	X	X					
MW1A	12/14/93				"	93	"							Reg TAT
MW2	12/14/93				"	93	"							
MW3	12/14/93				"	2	"	↓	↓					

Relinquished By (Signature)	Date	Time	Accepted By (Signature)
1 <u>[Signature]</u> J. COBENITZ	12/14/93	335	1 <u>[Signature]</u> Scott T. Ferrer
2			2
3			3

Laboratory Name & Address: _____
 REMARKS: _____