

**SCOTT CO.**

MECHANICAL CONTRACTORS  
1919 Market Street  
P.O. Box 12954  
Oakland, California 94604  
(415) 834-2333

Contractors License No. 184480

September 19, 1991

Groth Brothers  
59 South L Street  
Livermore, California 94550

Attention: Dick Groth

Gentlemen:

Please find enclosed lab sample analysis for the contaminated soil at your facility.

This soil has been accepted for disposal by BFI, 4001 North Vasco Road, Livermore, California. You should contact John Lydick at 447-0497 before transporting soil to this facility. John is expecting your call, and has pre-approved the acceptance of this soil.

Also, please find enclosed the bill for this analytical work at cost plus 20%, as discussed.

If you have any further questions regarding this site, please contact me at (510) 834-2333.

Very truly yours,

SCOTT CO. OF CALIFORNIA

  
Jay Groh  
Environmental Estimator

JG:jj

Enclosures



July 28, 1991  
Sample Log 2806

Jay Groh  
Scott Company  
1919 Market Street  
Oakland, CA 94607

Subject: Analytical Results for 1 Soil sample(s)  
Identified as: Groth Bros. Olds  
Received: 07/11/91  
Purchase Order: 84822-58559-72-7001

Dear Mr. Groh:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on July 29, 1991 and describes procedures used to analyze the samples.

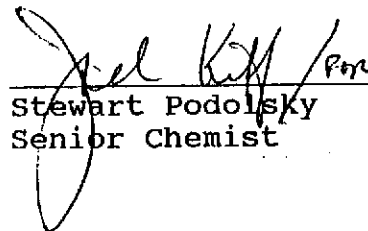
Sample(s) were received in brass sleeves that were sealed with PTFE sheets and plastic endcaps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

"TPH as Diesel, Motor Oil, Jet/Kerosene" (Mod. 8015/Extraction)  
"Volatile Aromatics" (EPA Method 8020)

Please refer to the following table(s) for summarized analytical results and contact us at 916-757-4650 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

  
Stewart Podolsky  
Senior Chemist

CLIENT: Jay Groh  
Scott Company  
1919 Market St.  
Oakland, CA 94607

Lab Number : H-2899-1

Project : Groth Bros. Olds

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY			SAMPLED DATE RECEIVED		
1A-D	Soil	Unknown			07/31/91		
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Antimony, Total	2.	ND	mg/Kg	EPA 7041	08/11/91	AA	1
Arsenic, Total	0.3	3.2	mg/Kg	EPA 7060	08/07/91	KS	1
Lead, Total	1.	18.	mg/Kg	EPA 7420	08/08/91	KS	1
Mercury, Total	0.002	0.039	mg/Kg	EPA 7471	08/06/91	RJ	2
Molybdenum, Total	5.	ND	mg/Kg	EPA 7480	08/12/91	KS	1
Selenium, Total	2.	ND	mg/Kg	EPA 7740	08/09/91	KS	1
Silver, Total	0.1	0.8	mg/Kg	EPA 7760	08/08/91	KS	1
Thallium, Total	3.	ND	mg/Kg	EPA 7840	08/08/91	KS	1
CAM METALS BY ICP							1
Barium, Total	0.5	120.	mg/Kg	EPA 6010	08/08/91	RJ	
Beryllium, Total	0.5	ND	mg/Kg	EPA 6010	08/08/91	RJ	
Cadmium, Total	3.	ND	mg/Kg	EPA 6010	08/08/91	RJ	
Chromium, Total	3.	41.	mg/Kg	EPA 6010	08/08/91	RJ	
Cobalt, Total	3.	11.	mg/Kg	EPA 6010	08/08/91	RJ	
Copper, Total	3.	31.	mg/Kg	EPA 6010	08/08/91	RJ	
Nickel, Total	3.	59.	mg/Kg	EPA 6010	08/08/91	RJ	
Vanadium, Total	1.	30.	mg/Kg	EPA 6010	08/08/91	RJ	
Zinc, Total	3.	65.	mg/Kg	EPA 6010	08/08/91	RJ	
pH	0.1	7.3	Units	EPA 9045	08/06/91	AS	3

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131

\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 08/05/91 by JLW using EPA 3050

(2) Sample Preparation on 08/09/91 by MDH

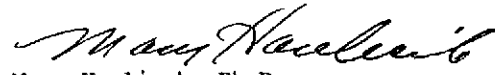
(3) PH IN WATER

08/14/91

MH/oro/aes

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

  
James White, Group Leader

  
Mary Havlicek, Ph.D.  
President



CLIENT: Coast-to-Coast Analytical Services, Inc.

QC MATRIX SPIKE  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED DATE RECEIVED					
MATRIX SPIKE	Solid								
CONSTITUENT	ORIGINAL	SPIKE	RESULT	%REC	UNITS	METHOD	ANALYZED	BY	NOTE
Mercury, Total	0.039	0.19	0.23	101.	mg/Kg	EPA 7471	08/06/91	RJ	1

San Luis Obispo Division is certified by CA Department of Health Services: Laboratory #131  
\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)  
(1) Sample Preparation on 08/09/91 by MDH

08/13/91

MH  
H2899-1

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

James White, Group Leader

Mary Havlicek, Ph.D.  
President



Air, Water & Hazardous Waste Sampling, Analysis & Consultation  
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

CLIENT: Coast-to-Coast Analytical Services, Inc.

QC MATRIX SPIKE  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

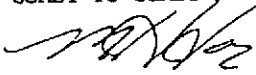
SAMPLE DESCRIPTION	MATRIX	SAMPLED BY			SAMPLED DATE RECEIVED				
MATRIX SPIKE DUPLICATE	Solid								
CONSTITUENT	ORIGINAL	SPIKE	RESULT	%DIFF	UNITS	METHOD	ANALYZED	BY	NOTE
Mercury, Total	0.039	0.19	0.24	5.3	mg/Kg	EPA 7471	08/06/91	RJ	1

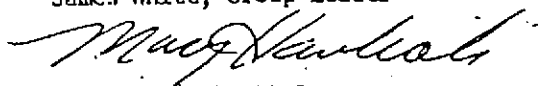
San Luis Obispo Division is certified by CA Department of Health Services; Laboratory #131  
\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)  
(1) Sample Preparation on 08/09/91 by MDH

08/13/91

MH  
H2899-1

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

  
James White, Group Leader

  
Mary Havlicek, Ph.D.  
President

Coast-to-Coast Analytical Services

Coast-to-Coast Analytical Services  
 141 Suburban Road, Suite C-4  
 San Luis Obispo, California 93401  
 (805) 543-2553

Lab Number: H-2899-1  
 Collected:  
 Received: 07/31/91  
 Tested: As Listed  
 Collected by:

ATTN: Jay Groh  
 Scott Company  
 1919 Market Street  
 Oakland, CA 94607

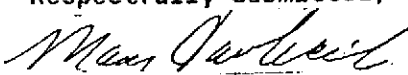
Sample Description:  
 Project: Groth Bros. Olds  
 1A-D, Solid

IGNITABILITY AND REACTIVITY CRITERIA, 22 CAL ADM CODE ART 11, SEC 66702/66705 & 40CFR261 HAZARDOUS MATERIALS SCREEN

DESCRIPTION OF TEST AND TEST METHOD NO.	DATE TESTED/ANALYST	OBSERVATIONS	RESULTS
APPEARANCE (ASTM D4979)	08/06/91 AES	Sandy brown solid	
REACTION WITH WATER (ASTM D5058)	08/06/91 AES	Partially dissolved, density greater than water, no change in color or temp., no gas evolved	Partially Dissolved
PRESENCE OF FLUORIDE (EPA 340.2)	08/06/91 AES	Fluoride present at 0.3 mg/L	Positive
PRESENCE OF OXIDIZER (ASTM D-4981)	08/06/91 AES	Oxidizer not present	Negative
COMBUSTIBILITY (ASTM D4982)	08/06/91 AES	No ignition (flash or burning)	Negative Flammability Potential
REACTIVE CYANIDE (SW846 7.3.)	08/07/91 AES	Cyanide not present at 0.05 mg/Kg	Negative
REACTIVE SULFIDE (SW846 7.3.)	08/07/91 AES	Sulfide present at 1. mg/Kg	Positive

REMARKS: The material is not hazardous according to 22 Cal Adm Code Art 11 Sec. 66702/66705 & 40CFR261 ignitability criteria.

08/13/91  
 H2899-1S.WR1/#22  
 MH/ke

Respectfully submitted,  
  
 Mary Havlicek, Ph.D., President

NOT AFFILIATED WITH WEST!

SCOTT COMPANY

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: **JAY GROH** Phone #: **415-834-2333**

ANALYSIS REQUEST

TAT

Company/Address: **1919 MARKET ST OAKLAND, CA 94607** FAX #: **415-763-0106**

Project Number: **84762-50309-72-7001** P.O.#: **GROTH BROS. OLDS** Project Name:

Project Location: Sampler Signature:

Sample ID	Sampling		Container				Method Preserved				Matrix	
	DATE	TIME	VOA	SLEEVE	1L GLASS	1L PLASTIC	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL
<b>H2899</b>												
<b>1A</b>						<b>X</b>		<b>X</b>			<b>X</b>	
<b>1B</b>						<b>X</b>		<b>X</b>			<b>X</b>	
<b>1C</b>						<b>X</b>		<b>X</b>			<b>X</b>	
<b>1D</b>						<b>X</b>		<b>X</b>			<b>X</b>	

BTEX (602/8020)	
BTEX/TPH as Gasoline (602/8020/8015)	
TPH as Diesel/Oil (8015)	
Total Oil & Grease (5520 B/E,F)	
Total Oil & Grease IR (5520 B/E,F,C)	
96 - Hour Fish Bioassay	
EPA 601/8010	
EPA 602/8020	
EPA 615/8150	
EPA 608/8080 - Pesticides	
EPA 608/8080-PCBs	
EPA 624/8240	
EPA 625/8270	
ORGANIC LEAD	
Reactivity, Corrosivity, Ignitibility	
CAM - 17 Metals	<b>X</b>
EPA - Priority Pollutant Metals	
LEAD(7420/7421/239.2)	
Cd, Cr, Pb, Zn, Ni	
RUSH SERVICE (12 hr) or (24 hr)	
EXPEDITED SERVICE (48 hr) or (1 wk)	
STANDARD SERVICE (2wk)	

**Composited by WEST**

**XX**  
**→ Cyanide, Sulfides**  
**pH**  
**Flashpoint**

Relinquished by: <b>Stewart Reddy</b>	Date Time: <b>7/29/91 16:00</b>	Received by:
Relinquished by:	Date Time:	Received by:
Relinquished by:	Date Time:	Received by Laboratory: <b>W. A. [Signature]</b>

Remarks: **REPORT (FAX WHEN DONE)**  
**↓ INVOICE TO SCOTT CO,**  
**GAY GROH [NOT TO WEST]**

Bill To: **SCOTT CO**

**COAST - TO -  
COAST  
ANALYTICAL  
SERVICES**

Air, Water & Hazardous Waste Sampling, Analysis & Consultation  
Certified Hazardous Waste, Chemistry, Bacteriology & Bioassay Laboratories

San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

San Luis Obispo Division  
141 Suburban Road, San Luis Obispo, California 93401

(805) 543-2553  
FAX (805) 543-2685

CLIENT: Jay Groh  
Scott Company  
1919 Market Street  
Oakland, CA 93607

Lab Number : H-3293-1  
Project : Groth Bros. Olds

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED				
1A-D (H2899-1)	Soil	Unknown	07/31/91				
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
CAL WET extraction with citrate Nickel, Soluble	0.05	0.50	mg/L	CAC T22 EPA 6010	09/05/91 09/09/91	AR KS	1

San Luis Obispo Division is certified by CA Department of Health Services: ELAP #1598  
\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)  
(1) Sample Preparation on 09/08/91 by AR using EPA 3005

09/11/91

MH/jmw/ar/kes

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.



Mary Havlicek, Ph.D.  
President





San Luis Obispo, CA • Goleta, CA • Benicia, CA • Camarillo, CA • Newport Beach, CA • Valparaiso, IN

San Luis Obispo Division  
141 Suburban Road, San Luis Obispo, California 93401

(805) 543-2553  
FAX (805) 543-2685

CLIENT: Coast-to-Coast Analytical Services, Inc.

QC MATRIX SPIKE  
REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED						
MATRIX SPIKE	Solid								
CONSTITUENT	ORIGINAL	SPIKE	RESULT	%REC	UNITS	METHOD	ANALYZED	BY	NOTE
Nickel, Soluble	0.50	1.0	1.3	80.	mg/L	EPA 6010	09/09/91	KS	1

San Luis Obispo Division is certified by CA Department of Health Services: ELAP #1598  
\*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)  
(1) Sample Preparation on 09/08/91 by AR using EPA 3005

09/11/91

MH/jmw/ar/kes  
H3293-1

Respectfully submitted,  
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Mary Havlicek, Ph.D.  
President





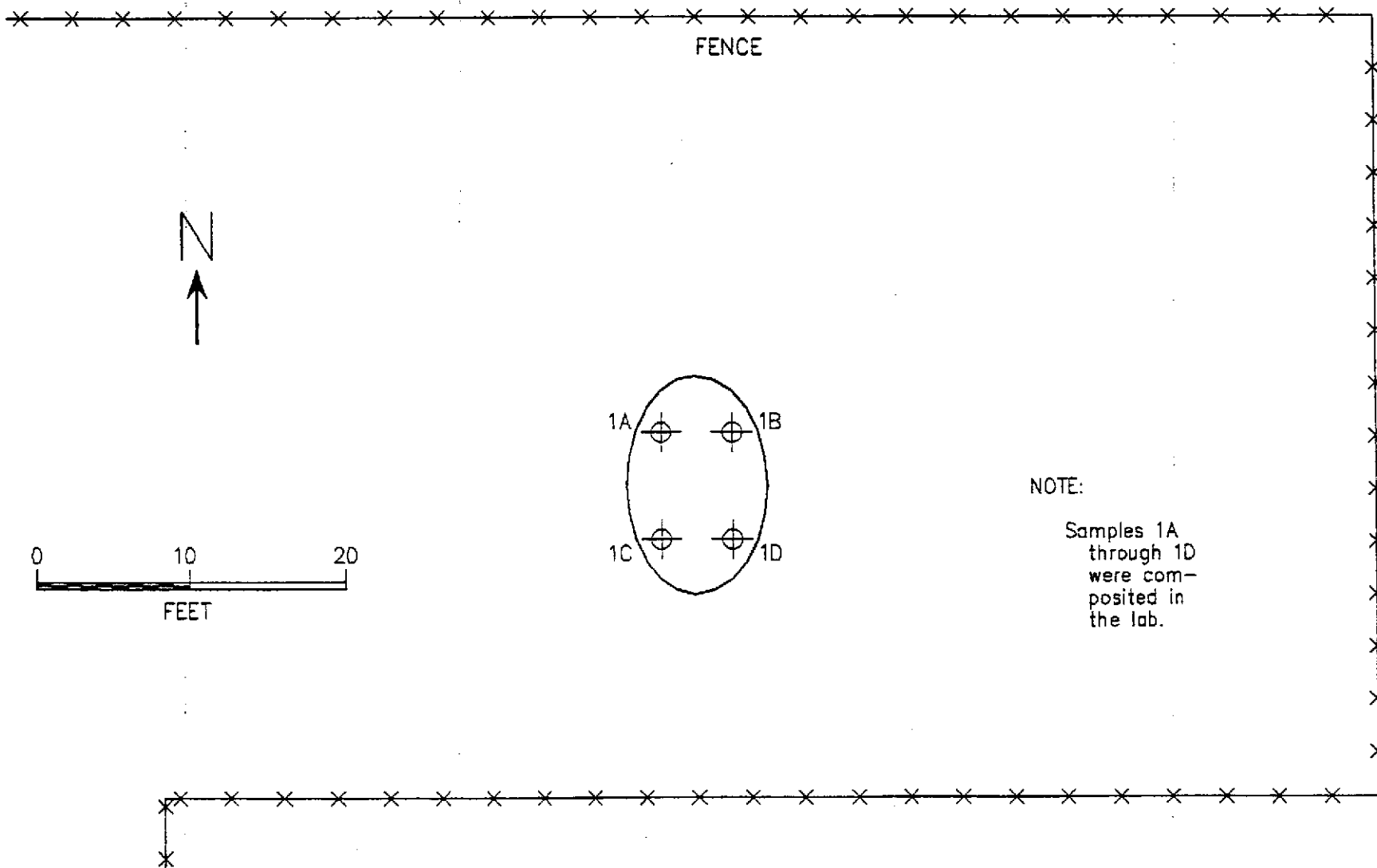
July 28, 1991  
Sample Log 2806

Sample: Composite 1  
1A  
1B  
1C  
1D

From : Groth Bros. Olds  
Received : 07/11/91  
Matrix : Soil

--all concentrations are units of mg/kg--

Parameter / (Reporting Limit)	Measured Value
Extractable TPH (10)	Diesel : <10 Motor Oil : 400
Benzene (.005)	<.005
Toluene (.005)	<.005
Ethylbenzene (.005)	<.005
Total Xylenes (.005)	<.005
Chlorobenzene (.005)	<.005
1,2-Dichlorobenzene (.005)	<.005
1,3-Dichlorobenzene (.005)	<.005
1,4-Dichlorobenzene (.005)	<.005



GROTH BROS. OLDS (SCOTT CO.)  
RAILROAD AVE. SITE  
LIVERMORE, CALIFORNIA

Sample Log#: 2806

DATE: 6/18/1991

SCALE 1:120



Western Environmental  
Science & Technology

1046 Olive Drive #3, Davis, CA 95616

Phone: (916) 753-9500

Drawn by: TGT



Western Environmental  
Science & Technology

1046 Olive Drive, Suite 3  
Davis, CA 95616

916-753-9500  
FAX #: 916-753-6091  
LAB#: 916-757-4650

### CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Jay Groh (Scott Co.) Phone #: (415) 834-2333

Company/Address: Scott Co. FAX #:   
1919 Market Street  
Oakland, CA

Project Number: P.O.#: Project Name: Groth Bros. Olds

Project Location: Railroad Ave. Sampler Signature: Tracy J. Furpen  
Livermore, CA

#### ANALYSIS REQUEST

TAT

Sample ID	Sampling		Container		Method Preserved				Matrix		BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel/Oil (8015)	Total Oil & Grease (5520 B/E, F)	Total Oil & Grease IR (5520 B/E, F, C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	W.E.T. (✓)	TOTAL (✓)	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7420/7421/239.2)	Cd, Cr, Pb, Zn, Ni	HOLD	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2wk)	
	DATE	TIME	VOA	SLEEVE	1L GLASS	1L PLASTIC	HCl	HNO <sub>3</sub>	ICE	NONE																										WATER
IA	6-18-91	11:55	X					X																												
IB	6-18-91	11:58	X					X																												
IC	6-18-91	12:03	X					X																												
ID	6-18-91	12:01	X					X																												

Relinquished by: <u>Tracy J. Furpen</u>	Date Time: <u>6-18-91 18:37</u>	Received by: _____	Remarks: Hold until instructions from Jay Groh come in. P.O.# due to come in 6-19-91 in the A.M. Sampling & Transport: 2.25 hrs
Relinquished by: _____	Date Time: _____	Received by: _____	
Relinquished by: _____	Date Time: <u>6-18-91 18:37</u>	Received by Laboratory: <u>[Signature]</u>	