



**FAX BEING SENT BY:**

**Aqua Science Engineers, Inc.**  
2411 Old Crow Canyon Road, #4  
San Ramon, CA 94583  
Phone (510) 820-9391  
Fax (510) 837-4853

DATE: 10-1-96

TO: Brian Oliva

FROM: Scott Ferriman

NUMBER OF PAGES TO FOLLOW: 10

\*\*\*\*\*Please Phone If This FAX Is Received Incomplete\*\*\*\*\*

**MESSAGE:**

Results for Geo Martin S, Jr.  
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# CHROMALAB, INC.

Environmental Services (SDB)

September 25, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project#: 2991

Project: GEO M. MARTIN CO.  
Received: September 20, 1996

re: One sample for Miscellaneous Metals analysis.  
Method: EPA 3050A/6010A

Client Sample ID: T1-5'

Spl#: 100881

Matrix: SOIL

Extracted: September 23, 1996

Sampled: September 20, 1996

Run#: 3223

Analyzed: September 24, 1996

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CADMIUM	N.D.	0.50	N.D.	90.9	1
CHROMIUM	20	1.0	N.D.	93.0	1
LEAD	5.6	1.0	N.D.	93.4	1
NICKEL	34	1.0	N.D.	90.8	1
ZINC	32	1.0	N.D.	93.5	1

*Chris Arndt*  
Christopher Arndt  
Chemist

*John S. Labash*  
John S. Labash  
Inorganics Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

September 25, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: One sample for Miscellaneous Metals analysis.

Method: EPA 3050A/6010A

Client Sample ID: STKP(A-D)

Spl#: 100882

Matrix: SOIL

Extracted: September 23, 1996

Sampled: September 20, 1996

Run#: 3223

Analyzed: September 24, 1996

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CADMIUM	N.D.	0.50	N.D.	90.9	1
CHROMIUM	23	1.0	N.D.	93.0	1
LEAD	26	1.0	N.D.	93.4	1
NICKEL	34	1.0	N.D.	90.8	1
ZINC	100	1.0	N.D.	93.5	1

*Chris Arndt*  
 Christopher Arndt  
 Chemist

*John S. Labash*  
 John S. Labash  
 Inorganics Supervisor

**CHROMALAB, INC.**

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: One sample for 8010 Purgeable Halocarbons by GC/MS analysis.  
 Method: EPA 8240A July, 1992

Client Sample ID: T1-5'

Spl#: 100881

Matrix: SOIL

Sampled: September 20, 1996

Run#: 3331

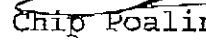
Analyzed: September 23, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CHLOROMETHANE	N.D.	40	N.D.	--	4
VINYL CHLORIDE	N.D.	20	N.D.	--	4
BROMOCHLOROMETHANE	N.D.	20	N.D.	--	4
CHLOROETHANE	N.D.	20	N.D.	--	4
TRICHLOROFLUOROMETHANE	N.D.	40	N.D.	--	4
1,1-DICHLOROETHENE	N.D.	20	N.D.	86.9	4
METHYLENE CHLORIDE	N.D.	40	N.D.	--	4
TRANS-1,2-DICHLOROETHENE	N.D.	20	N.D.	--	4
CIS-1,2-DICHLOROETHENE	N.D.	20	N.D.	--	4
1,1-DICHLOROETHANE	N.D.	20	N.D.	--	4
CHLOROFORM	N.D.	20	N.D.	--	4
1,1,1-TRICHLOROETHANE	N.D.	20	N.D.	--	4
CARBON TETRACHLORIDE	N.D.	20	N.D.	--	4
1,2-DICHLOROETHANE	N.D.	20	N.D.	--	4
TRICHLOROETHENE	N.D.	20	N.D.	98.7	4
1,2-DICHLOROPROPANE	N.D.	20	N.D.	--	4
BROMODICHLOROMETHANE	N.D.	20	N.D.	--	4
2-CHLOROETHYL VINYL ETHER	N.D.	40	N.D.	--	4
TRANS-1,3-DICHLOROPROPENE	N.D.	20	N.D.	--	4
CIS-1,3-DICHLOROPROPENE	N.D.	20	N.D.	--	4
1,1,2-TRICHLOROETHANE	N.D.	20	N.D.	--	4
TETRACHLOROETHENE	N.D.	40	N.D.	--	4
DIBROMOCHLOROMETHANE	N.D.	20	N.D.	--	4
CHLOROBENZENE	N.D.	20	N.D.	101	4
BROMOFORM	N.D.	20	N.D.	--	4
1,1,2,2-TETRACHLOROETHANE	N.D.	20	N.D.	--	4
1,3-DICHLOROBENZENE	N.D.	20	N.D.	--	4
1,4-DICHLOROBENZENE	N.D.	20	N.D.	--	4
1,2-DICHLOROBENZENE	N.D.	20	N.D.	--	4
TRICHLOROTRIFLUOROETHANE	N.D.	20	N.D.	--	4

Note: Surrogate recovery was outside QA/QC limits due to matrix interference.  
 See Surrogate Summary page.



June Zhao  
Chemist



Chip Poalinelli  
Operations Manager

**CHROMALAB, INC.**

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: One sample for 8010 Purgeable Halocarbons by GC/MS analysis.  
 Method: EPA 8240A July, 1992

Client Sample ID: STKP(A-D)

Spl#: 100882

Matrix: SOIL

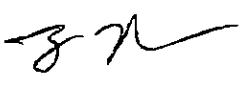
Sampled: September 20, 1996

Run#: 3332


Analyzed: September 25, 1996

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
CHLOROMETHANE	N.D.	10	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
BROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROFLUOROMETHANE	N.D.	10	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	91.1	1
METHYLENE CHLORIDE	N.D.	10	N.D.	--	1
TRANS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--	1
CIS-1,2-DICHLOROETHENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	91.1	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYL VINYL ETHER	N.D.	10	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	90.8	1
BROMOFORM	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1

Note: Surrogate recovery was outside QA/QC limits due to matrix interference.  
 See Surrogate Summary page.



June Zhao  
Chemist



Chip Poalinelli  
Operations Manager

**CHROMALAB, INC.**

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: **Surrogate** report for 1 sample for 8010 Purgeable Halocarbons by

Method: EPA 8240A July, 1992

Lab Run#: 3331

Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
100881-1	T1-5'	4-BROMOFLOUROBENZENE	240	74-121
100881-1	T1-5'	D4-1,2-DICHLOROETHANE	100	70-121
100881-1	T1-5'	D8-TOLUENE	112	81-117

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
101817-1	Reagent blank (MDB)	4-BROMOFLOUROBENZENE	90	74-121
101817-1	Reagent blank (MDB)	D4-1,2-DICHLOROETHANE	100	70-121
101817-1	Reagent blank (MDB)	D8-TOLUENE	109	81-117
101818-1	Spiked blank (BSP)	4-BROMOFLOUROBENZENE	89	74-121
101818-1	Spiked blank (BSP)	D4-1,2-DICHLOROETHANE	84	70-121
101818-1	Spiked blank (BSP)	D8-TOLUENE	106	81-117
101819-1	Spiked blank duplicate (BSD)	4-BROMOFLOUROBENZENE	89	74-121
101819-1	Spiked blank duplicate (BSD)	D4-1,2-DICHLOROETHANE	94	70-121
101819-1	Spiked blank duplicate (BSD)	D8-TOLUENE	107	81-117

V035  
QCSURR1229 JIEWEI 27-Sep-98 16:4

**CHROMALAB, INC.**

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: **Surrogate** report for 1 sample for 8010 Purgeable Halocarbons by  
 Method: EPA 8240A July, 1992  
 Lab Run#: 3332  
 Matrix: SOIL

Sample#	Client Sample ID	Surrogate	% Recovered	Recovery Limits
100882-1	STKP (A-D)	4-BROMOFLOUROBENZENE	361	74-121
100882-1	STKP (A-D)	D4-1,2-DICHLOROETHANE	86.6	70-121
100882-1	STKP (A-D)	D8-TOLUENE	103	81-117

Sample#	QC Sample Type	Surrogate	% Recovered	Recovery Limits
101820-1	Reagent blank (MDB)	4-BROMOFLOUROBENZENE	86	74-121
101820-1	Reagent blank (MDB)	D4-1,2-DICHLOROETHANE	88	70-121
101820-1	Reagent blank (MDB)	D8-TOLUENE	96	81-117
101821-1	Spiked blank (BSP)	4-BROMOFLOUROBENZENE	88	74-121
101821-1	Spiked blank (BSP)	D4-1,2-DICHLOROETHANE	98	70-121
101821-1	Spiked blank (BSP)	D8-TOLUENE	104	81-117
101822-1	Spiked blank duplicate (BSD)	4-BROMOFLOUROBENZENE	90	74-121
101822-1	Spiked blank duplicate (BSD)	D4-1,2-DICHLOROETHANE	82	70-121
101822-1	Spiked blank duplicate (BSD)	D8-TOLUENE	96	81-117

V035  
QCSURR1229 JIEWEI 27-Sep-98 16:4

# CHROMALAB, INC.

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project#: 2991


Project: GEO M. MARTIN CO.  
Received: September 20, 1996


re: 2 samples for TPH - Diesel analysis.  
Method: EPA 3510/8015M

Matrix: SOIL  
Sampled: September 20, 1996 Run#: 3293

Extracted: September 25, 1996  
Analyzed: September 27, 1996

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
100881	T1-5'	3400	200	N.D.	75.5	200
Note: Estimated concentration due to overlapping fuel patterns.						
100882	STKP(A-D)	1300	25	N.D.	75.5	25
Note: Estimated concentration due to overlapping fuel patterns.						

  
Bruce Havlik  
Chemist

  
Alex Tam  
Semivolatiles Supervisor



**CHROMALAB, INC.**

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: 1 sample for BTEX compounds analysis.

Method: EPA 8020

Matrix: SOIL


Sampled: September 20, 1996 Run#: 3283

Analyzed: September 26, 1996


Spl#	CLIENT SPL ID	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)
100881	T1-5'	N.D.	N.D.	6.0	44

Note: Reporting limit raised due to sample interference.

Reporting Limits	2.5	2.5	2.5	2.5
Blank Result	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	81.5	86.5	88.5	88.8



June Zhao  
Chemist



Marianne Alexander  
Gas/BTEX Supervisor

**CHROMALAB, INC.**

Environmental Services (SDB)

September 27, 1996

Submission #: 9609280

AQUA SCIENCE ENGINEERS INC

Atten: Scott Ferriman

Project: GEO M. MARTIN CO.

Project#: 2991

Received: September 20, 1996

re: 1 sample for BTEX compounds analysis.

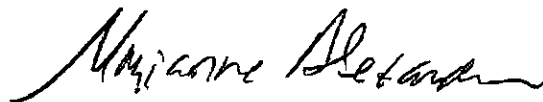
Method: EPA 8020

Matrix: SOIL

Sampled: September 20, 1996 Run#: 3250

Analyzed: September 24, 1996

Spl#	CLIENT SPL ID	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)
100882	STKP (A-D)	N.D.	0.35	2.5	20
Note: Reporting limit raised due to sample interference.					
Reporting Limits		0.10	0.10	0.10	0.10
Blank Result		N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)		102	108	111	110

June Zhao  
ChemistMarianne Alexander  
Gas/BTEX Supervisor

280/100881-100882

29827

Aqua Science Engineers, Inc.  
2411 Old Crow Canyon Road, #4,  
San Ramon, CA 94583  
(510) 820-9391 • FAX (510) 837-4853

# Chain of Custody

DATE 9-20-96 PAGE 1 OF 1

SAMPLERS (SIGNATURE)

(PHONE NO)

PROJECT NAME Geo M. Martin Co.

NO. 2991

ADDRESS 1308 67th Street, Emeryville

Scott Ferriman 510-820-9391

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

5-Day

SAMPLE ID.	DATE	TIME	MATRIX	NO OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/6220)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 EAF OF B&F)	LUFT METALS (5) (EPA 6010-7000)	TITLE 22 (CM 17) (EPA 6010-7000)	TCLP (EPA 1311/1310)	STLC- CM MET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY
<del>ST2-5'</del>	<del>9-20-96</del>	<del>13:52</del>	<del>Soil</del>	<del>1</del>	X	X		X				X				
STKP(A-0)	9-20-96	14:30	Soil	4	X	X		X				X				Composite 4 to 1

SUB# #: 9609280 REP: MV  
CLIENT: ASE  
DUE: 09/27/96  
REF #: 29827

RELINQUISHED BY:

1605

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LABORATORY:

COMMENTS:

Scott Ferriman (signature) 1605 (time)

[Signature] (signature) 1605 (time)

[Signature] (signature) 1605 (time)

Minnie Pak (signature) 1805 (time)

Scott Ferriman (printed name) 9-20-96 (date)

[Printed Name] (printed name) 9-20-96 (date)

[Printed Name] (printed name) 9-20-96 (date)

Minnie Pak (printed name) 9-20-96 (date)

Company: ASE, Inc

Company: Chromalab

Company: Chromalab

Company: Chromalab

256 P11

SEP 30 '96 21:40