



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L   R E P O R T

Prepared for:

Geomatrix Consultants  
2101 Webster Street  
12th Floor  
Oakland, CA 94612


Date: 04-MAY-99  
Lab Job Number: 139111  
Project ID: 3095.06  
Location: 3095.06

Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.

139111

CHAIN-OF-CUSTODY RECORD			N <sup>o</sup> 9360		Date: 4-27-99		Page 1 of 1								
Project No.: 2095.06			ANALYSES					REMARKS							
Samplers (Signatures): <i>ASJ</i>			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments	
Date	Time	Sample Number													
1	4-27	1100	BF1A,BCD						X		N	S	N	4	
2	↓	1115	BF2A,BCD						X		↓	↓	↓	4	
3	↓	1130	BF3A,BCD						X		↓	↓	↓	4	
4	↓	1145	BF4A,BCD						X		↓	↓	↓	4	
5	4-24	1010	S-2A						X		Y	S		1	
6	4-24	1050	S-3A						X		↓	↓	↓	1	
<i>ASJ</i>			Turnaround time: 2 day		Results to: Brad Job		Total No. of containers:								
Relinquished by (signature): <i>ASJ</i>		Date: 4-27-99	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: <i>Hand delivered</i>		Laboratory Comments and Log No.:				
Printed Name: L.B. Job		Time: 12:00	Printed Name:		Time:	Printed Name:		Time:							
Company: GMX			Company:			Company:									
Received by (signature): <i>Travers</i>		Date: 4/27/99	Received by (signature):		Date:	Received by (signature):		Date:	 <b>GeoMatrix Consultants</b> 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400						
Printed Name: TRAVERS		Time: 12:00	Printed Name:		Time:	Printed Name:		Time:							
Company: C&I			Company:			Company:									

CLIENT: Geomatrix Consultants  
 PROJECT ID: 3095.06  
 LOCATION: 3095.06  
 MATRIX: Soil

DATE REPORTED: 04/29/99

Metals Analytical Report

Arsenic

Sample ID	Lab ID	Sample Date	Receive Date	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
BF1 (A, B, C, D)	139111-001	04/27/99	04/27/99	32	0.24	1	47685	EPA 6010A	04/28/99
BF2 (A, B, C, D)	139111-002	04/27/99	04/27/99	24	0.25	1	47685	EPA 6010A	04/28/99
BF3 (A, B, C, D)	139111-003	04/27/99	04/27/99	31	0.25	1	47685	EPA 6010A	04/28/99
BF4 (A, B, C, D)	139111-004	04/27/99	04/27/99	29	0.24	1	47685	EPA 6010A	04/28/99
S-2A	139111-005	04/24/99	04/27/99	5.0	0.25	1	47685	EPA 6010A	04/28/99
S-3A	139111-006	04/24/99	04/27/99	6.4	0.25	1	47685	EPA 6010A	04/28/99



Curtis & Tompkins, Ltd.



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants  
JOB NUMBER: 139111

DATE REPORTED: 04/29/99

**BATCH QC REPORT  
PREP BLANK**

Compound	Result	Reporting Limit	Units	IDF	QC Batch	Method	Analysis Date
Arsenic	ND	0.25	mg/Kg	1	47685	EPA 6010A	04/28/99

ND = Not Detected at or above reporting limit

CLIENT: Geomatrix Consultants  
 JOB NUMBER: 139111

DATE REPORTED: 04/29/99

**BATCH QC REPORT**  
**BLANK SPIKE / BLANK SPIKE DUPLICATE**

Compound	Spike Amount	BS Result	BSD Result	Units	BS% Rec.	BSD% Rec.	Rec. Limits	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	100	89	91.5	mg/Kg	89	92	80-120	3	35	47685	EPA 6010A	04/28/99

CLIENT: Geomatrix Consultants  
JOB NUMBER: 139111

DATE REPORTED: 04/29/99

**BATCH QC REPORT  
SAMPLE DUPLICATE**

Compound	Sample	Sample Result	Duplicate Result	Units	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	138936-001	0.8408	0.53	mg/Kg	29	35	47685	EPA 6010A	04/28/99



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants  
JOB NUMBER: 139111

DATE REPORTED: 04/29/99

**BATCH QC REPORT  
SAMPLE SPIKE**

Compound	Spike Amount	Sample	Sample Result	Spike Result	Units	Percent Rec.	Rec. Limit	QC Batch	Method	Analysis Date
Arsenic	98.52	138936-001	0.8408	87.19	mg/Kg	88	65-135	47685	EPA 6010A	04/28/99



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L   R E P O R T

Prepared for:

Geomatrix Consultants  
2101 Webster Street  
12th Floor  
Oakland, CA 94612

Date: 04-MAY-99  
Lab Job Number: 139017  
Project ID: 3095.06  
Location: 3095.06


Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.



139017

CHAIN-OF-CUSTODY RECORD			N <sup>o</sup> 12061		Date: 4/20/99		Page 1 of 1								
Project No.: 3095.06			ANALYSES					REMARKS							
Samplers (Signatures): <i>[Signature]</i>			EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	# TOTAL METALS (EPA 601/17000)	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments
Date	Time	Sample Number													
4/15/99	1715	S-17								X	S	-	1	# As, Ba, Cd, Cu, Pb, Zn  COMPOSITE SAMPLES PRIOR TO ANALYSIS.  -5	
4/15/99	1720	S-18							X	S	-	1			
4/20/99	1500	S-19							X	S	-	1			
4/20/99	1520	S-20							X	S	-	1			
<i>[Signature]</i>			Turnaround time: STD. TAT			Results to: BRAD JOB			Total No. of containers: 4						
Relinquished by (signature): <i>[Signature]</i>		Date: 4/20/99	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: DELIVER TO LAB		Laboratory Comments and Log No.:				
Printed Name: BLAKE M. YAMAMOTO		Time: 1700	Printed Name:		Time:	Printed Name:		Time:							
Company: GEOMATRIX			Company:			Company:			Received by (signature):		 <b>Geomatrix Consultants</b> 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400				
Received by (signature): <i>Carol Wortham</i>		Date: 4/20/99	Received by (signature):		Date:	Received by (signature):		Date:							
Printed Name: Carol Wortham		Time: 1700	Printed Name:		Time:	Printed Name:		Time:							
Company: Curtis + Tompkins			Company:			Company:									



SAMPLE ID: COMP S-(17,18,19,20)  
LAB ID: 139017-005  
CLIENT: Geomatrix Consultants  
PROJECT ID: 3095.06  
LOCATION: 3095.06  
MATRIX: Soil

DATE SAMPLED: 04/15/99  
DATE RECEIVED: 04/20/99  
DATE REPORTED: 05/03/99

### Metals Analytical Report

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Arsenic	6.3	0.25	1	47685	EPA 6010A	04/28/99
Barium	200	0.50	1	47685	EPA 6010A	04/28/99
Cadmium	0.22	0.10	1	47685	EPA 6010A	04/28/99
Copper	28	0.50	1	47685	EPA 6010A	04/28/99
Lead	8.5	0.15	1	47685	EPA 6010A	04/28/99
Zinc	78	1.0	1	47685	EPA 6010A	04/28/99



CLIENT: Geomatrix Consultants  
JOB NUMBER: 139017

DATE REPORTED: 05/03/99

BATCH QC REPORT  
PREP BLANK

Compound	Result	Reporting Limit	Units	IDF	QC Batch	Method	Analysis Date
Arsenic	ND	0.25	mg/Kg	1	47685	EPA 6010A	04/28/99
Barium	ND	0.5	mg/Kg	1	47685	EPA 6010A	04/28/99
Cadmium	ND	0.1	mg/Kg	1	47685	EPA 6010A	04/28/99
Copper	ND	0.5	mg/Kg	1	47685	EPA 6010A	04/28/99
Lead	ND	0.15	mg/Kg	1	47685	EPA 6010A	04/28/99
Zinc	ND	1	mg/Kg	1	47685	EPA 6010A	04/28/99

ND = Not Detected at or above reporting limit

CLIENT: Geomatrix Consultants  
 JOB NUMBER: 139017

DATE REPORTED: 05/03/99

**BATCH QC REPORT**  
**BLANK SPIKE / BLANK SPIKE DUPLICATE**

Compound	Spike Amount	BS Result	ESD Result	Units	BS% Rec.	BSD% Rec.	Rec. Limits	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	100	89	91.5	mg/Kg	89	92	80-120	3	35	47685	EPA 6010A	04/28/99
Barium	100	93.5	96	mg/Kg	94	96	80-120	3	35	47685	EPA 6010A	04/28/99
Cadmium	2.5	2.32	2.36	mg/Kg	93	94	80-120	2	35	47685	EPA 6010A	04/28/99
Copper	12.5	11.75	12.15	mg/Kg	94	97	80-120	3	35	47685	EPA 6010A	04/28/99
Lead	25	22.9	23.45	mg/Kg	92	94	80-120	2	35	47685	EPA 6010A	04/28/99
Zinc	25	22.35	22.95	mg/Kg	89	92	80-120	3	35	47685	EPA 6010A	04/28/99

CLIENT: Geomatrix Consultants  
 JOB NUMBER: 139017

DATE REPORTED: 05/03/99

**BATCH QC REPORT  
 SAMPLE DUPLICATE**

Compound	Sample	Sample Result	Duplicate Result	Units	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	138936-001	0.8408	0.63	mg/Kg	29	35	47685	EPA 6010A	04/28/99
Barium	138936-001	6.119	6.35	mg/Kg	4	35	47685	EPA 6010A	04/28/99
Cadmium	138936-001	<0.100	<0.100	mg/Kg	NC	35	47685	EPA 6010A	04/28/99
Copper	138936-001	13.83	13.85	mg/Kg	0	35	47685	EPA 6010A	04/28/99
Lead	138936-001	5.622	5.6	mg/Kg	0	35	47685	EPA 6010A	04/28/99
Zinc	138936-001	43.98	44.85	mg/Kg	2	35	47685	EPA 6010A	04/28/99

NC = Not Calculable

CLIENT: Geomatrix Consultants  
 JOB NUMBER: 139017

DATE REPORTED: 05/03/99

**BATCH QC REPORT  
 SAMPLE SPIKE**

Compound	Spike Amount	Sample	Sample Result	Spike Result	Units	Percent Rec.	Rec. Limit	QC Batch	Method	Analysis Date
Arsenic	98.52	138936-001	0.8408	87.19	mg/Kg	88	65-135	47685	EPA 6010A	04/28/99
Barium	98.52	138936-001	6.119	97.54	mg/Kg	93	65-135	47685	EPA 6010A	04/28/99
Cadmium	2.463	138936-001	40.099	2.227	mg/Kg	90	65-135	47685	EPA 6010A	04/28/99
Copper	12.32	138936-001	13.83	26.26	mg/Kg	101	65-135	47685	EPA 6010A	04/28/99
Lead	24.63	138936-001	5.622	27.19	mg/Kg	88	65-135	47685	EPA 6010A	04/28/99
Zinc	24.63	138936-001	43.98	66.01	mg/Kg	89	65-135	47685	EPA 6010A	04/28/99

# CHAIN-OF-CUSTODY RECORD

No 12001

Date: 4/20/99

Page 1 of 1

Project No.: 3095.06

## ANALYSES

## REMARKS

Samplers (Signatures):

*[Signature]*

Date	Time	Sample Number	EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	* TOTAL METALS (EPA METHOD 8210)									Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers
4/17/99	1720	S-18								X									X	S	-	1
4/21/99	1500	S-19								X									X	S	-	1
4/17/99	1520	S-20								X									X	S	-	1

# As, Ba, Cd, Cu, Pb, Zn  
 COMPOSITE SAMPLES  
 FINAL ANALYSIS.

Turnaround time: STD. TAT

Results to: BRAD JEB

Total No. of containers: 4

Relinquished by (signature): *[Signature]*  
 Date: 4/20/99  
 Time: 1700  
 Printed Name: BLAKE M. YAMAMOTO  
 Company: GEOMATRIX

Date: 4/20/99  
 Time: 1700

Relinquished by (signature):  
 Date:  
 Time:  
 Printed Name:  
 Company:

Date:  
 Time:

Relinquished by (signature):  
 Date:  
 Time:  
 Printed Name:  
 Company:

Date:  
 Time:

Method of Shipment: DELIVER TO LAB

Laboratory Comments and Log No.:

Received by (signature): *[Signature]*  
 Date: 4/20/99  
 Time: 1700  
 Printed Name: Carol Wortham  
 Company: Cushman & Tompkins

Date: 4/20/99  
 Time: 1700

Received by (signature):  
 Date:  
 Time:  
 Printed Name:  
 Company:

Date:  
 Time:

Received by (signature):  
 Date:  
 Time:  
 Printed Name:  
 Company:

Date:  
 Time:



**Geomatrix Consultants**  
 100 Pine Street, 10th Floor  
 San Francisco, California 94111  
 415 434 9400



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L   R E P O R T

Prepared for:

Geomatrix Consultants  
2101 Webster Street  
12th Floor  
Oakland, CA 94612

Date: 04-MAY-99  
Lab Job Number: 138939  
Project ID: 3095.06  
Location: 3095.06


Reviewed by:

Reviewed by:

This package may be reproduced only in its entirety.



138939

CHAIN-OF-CUSTODY RECORD				№ 12070				Date: 15 April 1999				Page 1 of 1													
Project No.: 3095.06				ANALYSES								REMARKS													
Samplers (Signatures): <i>[Signature]</i>				EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TOTAL METALS (6016/7000)	WET, TCLP	TOTAL PCP, +	CRESOL	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers	Additional Comments						
Date	Time	Sample Number																							
-1	4/13/99	1615	RR-1							X	X	X	X	X	S	-	1	* As, Ba, Cd, Cu, Pb, Zn  -6 COMPOSITE S-13, S-14, S-15, + S-16 FOR ANALYSIS  ANALYZE SEPARATELY.							
-2	4/1/99	1615	S-13							X	X	X	X	X	S	-	1								
-3	4/1/99	1625	S-14							X	X	X	X	X	S	-	1								
-4	4/13/99	1615	S-15							X	X	X	X	X	S	-	1								
-5	4/15/99	1705	S-16							X	X	X	X	X	S	-	1								
-7	4/13/99	1600	S-4A							X	X	X	X	X	S	-	1								
<i>[Signature]</i>				Turnaround time: STD. TAT				Results to: BRAD JOB				Total No. of containers: 6													
Relinquished by (signature): <i>[Signature]</i>		Date: 4/15/99	Relinquished by (signature): <i>[Signature]</i>		Date: 4/15/99	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment: DELIVER TO LAB													
Printed Name: BLAKE YAMAMOTO		Time: 1753	Printed Name: J. Goffette		Time: 1753	Company: GEOMATRIX		Time:	Company:		Time:	Laboratory Comments and Log No.: Cancelled TCLP: WET PCP due to limited sample													
Received by (signature):		Date:	Received by (signature):		Date:	Received by (signature):		Date:	Received by (signature):		Date:	 <b>Geomatrix Consultants</b> 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400													
Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:														
Company:			Company:			Company:			Company:																



## Phenols by GC/MS

Client: Geomatrix Consultants  
Project#: 3095.06  
Location: 3095.06

Analysis Method: EPA 8270B  
Prep Method: EPA 3550

Field ID: RR-1  
Lab ID: 138939-001  
Matrix: Miscell.  
Batch#: 47592  
Units: ug/Kg  
Diln Fac: 50

Sampled: 04/13/99  
Received: 04/16/99  
Extracted: 04/22/99  
Analyzed: 04/23/99

Analyte	Result	Reporting Limit
Phenol	ND	50000
2-Chlorophenol	ND	50000
2-Methylphenol	ND	50000
3-, 4-Methylphenol	ND	50000
2, 3, 4, 6-Tetrachlorophenol	ND	250000
2-Nitrophenol	ND	250000
2, 4-Dimethylphenol	ND	50000
2, 4-Dichlorophenol	ND	50000
2, 6-Dichlorophenol	ND	50000
4-Chloro-3-methylphenol	ND	50000
2, 4, 6-Trichlorophenol	ND	50000
2, 4, 5-Trichlorophenol	ND	50000
2, 4-Dinitrophenol	ND	250000
4-Nitrophenol	ND	250000
4, 6-Dinitro-2-methylphenol	ND	250000
Pentachlorophenol	ND	250000

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	DO*	15-129
Phenol-d5	DO*	38-132
2, 4, 6-Tribromophenol	DO*	23-144

\* Values outside of QC limits

DO: Surrogate diluted out



Lab #: 138939

BATCH QC REPORT

## Phenols by GC/MS

Client: Geomatrix Consultants  
Project#: 3095.06  
Location: 3095.06

Analysis Method: EPA 8270B  
Prep Method: EPA 3550

## METHOD BLANK

Matrix: Miscell.  
Batch#: 47592  
Units: ug/Kg  
Diln Fac: 1

Prep Date: 04/22/99  
Analysis Date: 04/23/99

MB Lab ID: QC95845

Analyte	Result	Reporting Limit
Phenol	ND	1000
2-Chlorophenol	ND	1000
2-Methylphenol	ND	1000
3-,4-Methylphenol	ND	1000
2,3,4,6-Tetrachlorophenol	ND	5000
2-Nitrophenol	ND	5000
2,4-Dimethylphenol	ND	5000
2,4-Dichlorophenol	ND	1000
2,6-Dichlorophenol	ND	1000
4-Chloro-3-methylphenol	ND	1000
2,4,6-Trichlorophenol	ND	1000
2,4,5-Trichlorophenol	ND	1000
2,4-Dinitrophenol	ND	5000
4-Nitrophenol	ND	5000
4,6-Dinitro-2-methylphenol	ND	5000
Pentachlorophenol	ND	5000

Surrogate	%Rec	Recovery Limits
2-Fluorophenol	79	15-129
Phenol-d5	81	38-132
2,4,6-Tribromophenol	43	23-144



Lab #: 138939

BATCH QC REPORT

Phenols by GC/MS	
Client: Geomatrix Consultants	Analysis Method: EPA 8270B
Project#: 3095.06	Prep Method: EPA 3550
Location: 3095.06	
BLANK SPIKE/BLANK SPIKE DUPLICATE	
Matrix: Miscell.	Prep Date: 04/22/99
Batch#: 47592	Analysis Date: 04/23/99
Units: ug/Kg	
Diln Fac: 1	

BS Lab ID: QC95846

Analyte	Spike Added	BS	%Rec #	Limits
Phenol	10000	7798	78	30-139
2-Chlorophenol	10000	8547	85	25-142
4-Chloro-3-methylphenol	10000	8009	80	29-139
4-Nitrophenol	10000	6991	70	26-141
Pentachlorophenol	10000	3709	37	15-148
Surrogate	%Rec	Limits		
2-Fluorophenol	82	15-129		
Phenol-d5	84	38-132		
2,4,6-Tribromophenol	31	23-144		

BSD Lab ID: QC95847

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Phenol	10000	7473	75	30-139	4	25
2-Chlorophenol	10000	8189	82	25-142	4	26
4-Chloro-3-methylphenol	10000	7632	76	29-139	5	26
4-Nitrophenol	10000	6546	65	26-141	7	27
Pentachlorophenol	10000	3902	39	15-148	5	47
Surrogate	%Rec	Limits				
2-Fluorophenol	78	15-129				
Phenol-d5	78	38-132				
2,4,6-Tribromophenol	32	23-144				

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits  
 RPD: 0 out of 5 outside limits  
 Spike Recovery: 0 out of 10 outside limits



SAMPLE ID: COMP S-13,14,15,16  
LAB ID: 138939-006  
CLIENT: Geomatrix Consultants  
PROJECT ID: 3095.06  
LOCATION: 3095.06  
MATRIX: Soil

DATE SAMPLED: 04/01/99  
DATE RECEIVED: 04/16/99  
DATE REPORTED: 04/30/99

Metals Analytical Report

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Arsenic	5.0	0.25	1	47685	EPA 6010A	04/28/99
Barium	170	0.49	1	47685	EPA 6010A	04/28/99
Cadmium	ND	0.098	1	47685	EPA 6010A	04/28/99
Copper	30	0.49	1	47685	EPA 6010A	04/28/99
Lead	15	0.15	1	47685	EPA 6010A	04/28/99
Zinc	67	0.98	1	47685	EPA 6010A	04/28/99

ND = Not detected at or above reporting limit



SAMPLE ID: S-4A  
LAB ID: 138939-007  
CLIENT: Geomatrix Consultants  
PROJECT ID: 3095.06  
LOCATION: 3095.06  
MATRIX: Soil

DATE SAMPLED: 04/13/99  
DATE RECEIVED: 04/16/99  
DATE REPORTED: 04/30/99

### Metals Analytical Report

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Arsenic	5.4	0.25	1	47685	EPA 6010A	04/28/99
Barium	200	0.50	1	47685	EPA 6010A	04/28/99
Cadmium	ND	0.099	1	47685	EPA 6010A	04/28/99
Copper	27	0.50	1	47685	EPA 6010A	04/28/99
Lead	6.6	0.15	1	47685	EPA 6010A	04/28/99
Zinc	64	0.99	1	47685	EPA 6010A	04/28/99

ND = Not detected at or above reporting limit



CLIENT: Geomatrix Consultants  
JOB NUMBER: 138939

DATE REPORTED: 04/30/99

BATCH QC REPORT  
PREP BLANK

Compound	Result	Reporting Limit	Units	IDF	QC Batch	Method	Analysis Date
Arsenic	ND	0.25	mg/Kg	1	47685	EPA 6010A	04/28/99
Barium	ND	0.5	mg/Kg	1	47685	EPA 6010A	04/28/99
Cadmium	ND	0.1	mg/Kg	1	47685	EPA 6010A	04/28/99
Copper	ND	0.5	mg/Kg	1	47685	EPA 6010A	04/28/99
Lead	ND	0.15	mg/Kg	1	47685	EPA 6010A	04/28/99
Zinc	ND	1	mg/Kg	1	47685	EPA 6010A	04/28/99

ND = Not Detected at or above reporting limit

CLIENT: Geomatrix Consultants  
 JOB NUMBER: 138939

DATE REPORTED: 04/30/99

**BATCH QC REPORT**  
**BLANK SPIKE / BLANK SPIKE DUPLICATE**

Compound	Spike Amount	BS Result	BSD Result	Units	BS% Rec.	BSD% Rec.	Rec. Limits	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	100	89	91.5	mg/Kg	89	92	80-120	3	35	47685	EPA 6010A	04/28/99
Barium	100	93.5	96	mg/Kg	94	96	80-120	3	35	47685	EPA 6010A	04/28/99
Cadmium	2.5	2.32	2.36	mg/Kg	93	94	80-120	2	35	47685	EPA 6010A	04/28/99
Copper	12.5	11.75	12.15	mg/Kg	94	97	80-120	3	35	47685	EPA 6010A	04/28/99
Lead	25	22.9	23.45	mg/Kg	92	94	80-120	2	35	47685	EPA 6010A	04/28/99
Zinc	25	22.35	22.95	mg/Kg	89	92	80-120	3	35	47685	EPA 6010A	04/28/99





CLIENT: Geomatrix Consultants  
JOB NUMBER: 138939

DATE REPORTED: 04/30/99

**BATCH QC REPORT  
SAMPLE DUPLICATE**

Compound	Sample	Sample Result	Duplicate Result	Units	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	138936-001	0.8408	0.63	mg/Kg	29	35	47685	EPA 6010A	04/28/99
Barium	138936-001	6.119	6.35	mg/Kg	4	35	47685	EPA 6010A	04/28/99
Cadmium	138936-001	<0.100	<0.100	mg/Kg	NC	35	47685	EPA 6010A	04/28/99
Copper	138936-001	13.83	13.85	mg/Kg	0	35	47685	EPA 6010A	04/28/99
Lead	138936-001	5.622	5.6	mg/Kg	0	35	47685	EPA 6010A	04/28/99
Zinc	138936-001	43.98	44.85	mg/Kg	2	35	47685	EPA 6010A	04/28/99

NC = Not Calculable

CLIENT: Geomatrix Consultants  
 JOB NUMBER: 138939

DATE REPORTED: 04/30/99

 BATCH QC REPORT  
 SAMPLE SPIKE

Compound	Spike Amount	Sample	Sample Result	Spike Result	Units	Percent Rec.	Rec. Limit	QC Batch	Method	Analysis Date
Arsenic	98.52	138936-001	0.8408	87.19	mg/Kg	88	65-135	47685	EPA 6010A	04/28/99
Barium	98.52	138936-001	6.119	97.54	mg/Kg	93	65-135	47685	EPA 6010A	04/28/99
Cadmium	2.463	138936-001	<0.099	2.227	mg/Kg	90	65-135	47685	EPA 6010A	04/28/99
Copper	12.32	138936-001	13.83	26.26	mg/Kg	101	65-135	47685	EPA 6010A	04/28/99
Lead	24.63	138936-001	5.622	27.19	mg/Kg	88	65-135	47685	EPA 6010A	04/28/99
Zinc	24.63	138936-001	43.98	66.01	mg/Kg	89	65-135	47695	EPA 6010A	04/28/99

# CHAIN-OF-CUSTODY RECORD

Nº 12070

Date: 15 April 1997

Page 1 of 1

Project No.: 3095.06

### ANALYSES

### REMARKS

Samplers (Signatures):  
*[Signature]*

Date	Time	Sample Number
4/15/97	1615	RE-1
4/15/97	1600	S-15
4/15/97	1725	S-14
4/15/97	1615	S-15
4/15/97	1700	S-16
4/15/97	1600	S-4A

EPA Method 8010	EPA Method 8020	EPA Method 8020 (BTEX only)	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TOTAL METALS (1010/7000)	WF, TCLP #	TOTAL PCP, #	CECIL	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers
							X	X	X		X	S	-	1
							X	X	X		X	S	-	1
							X	X	X		X	S	-	1
							X	X	X		X	S	-	1
							X	X	X		X	S	-	1
							X	X	X		X	S	-	1

Additional Comments

\* As, Ba, Cd, Cu, Pb, Zn

CADMIUM S-13, S-14, S-15, S-16  
IN ANALYSIS

ANALYSIS STARTED...

Turnaround time: STD. TAT

Results to: BTEX S:3

Total No. of containers: 6

Relinquished by (signature): *[Signature]*

Date: 4/15/97

Printed Name: BLAKE YAMAMOTO

Company: GEOMETRIX

Received by (signature):

Date:

Printed Name:

Company:

Relinquished by (signature): *[Signature]*

Date: 4/15/97

Printed Name: [Signature]

Company: [Signature]

Received by (signature):

Date:

Printed Name:

Company:

Relinquished by (signature):

Date:

Printed Name:

Company:

Received by (signature):

Date:

Printed Name:

Company:

Method of Shipment: DELIVER TO LAB

Laboratory Comments and Log No.:

**Geomatrix Consultants**  
100 Pine Street, 10th Floor  
San Francisco, California 94111  
415 434 9400