



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
100 Pine Street
10th Floor
San Francisco, CA 94111


Date: 22-APR-99
Lab Job Number: 138713
Project ID: N/A
Location: 3095.06

Reviewed by:

Reviewed by:

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138713

CHAIN-OF-CUSTODY RECORD			№ 12067		Date: 3/31/99		Page 1 of 1								
Project No.: 3095.06			ANALYSES						REMARKS						
Samplers (Signatures):			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													
3/29/99	1040	S-9								X	S	-	1		<p>5</p> <p>COMPOSITE S-9, S-10, S-11, DS-12 FOR ANALYSIS</p> <p>* As, Ba, Cd, Cu, Pb, Zn</p>
3/30/99	1045	S-10								X	S	-	1		
3/31/99	1440	S-11								X	S	-	1		
3/31/99	1570	S-12								X	S	-	1		
<i>[Signature]</i>															
			Turnaround time: STD. TAT			Results to: BRAD JAB			Total No. of containers: 4						
Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Relinquished by (signature):		Date:	Method of Shipment:		<p>DELIVER TO LAB</p> <p>Laboratory Comments and Log No.:</p>				
Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:	Time:						
Company:			Company:			Company:					 <p>Geomatrix Consultants 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400</p>				
Received by (signature):		Date:	Received by (signature):		Date:	Received by (signature):		Date:							
Printed Name:		Time:	Printed Name:		Time:	Printed Name:		Time:							
Company:			Company:			Company:									



Curtis & Tompkins. Ltd.

SAMPLE ID: COMP S-(9,10,11,12)
LAB ID: 138713-005
CLIENT: Geomatrix Consultants
LOCATION: 3095.06
MATRIX: Soil

DATE SAMPLED: 03/29/99
DATE RECEIVED: 03/31/99
DATE REPORTED: 04/13/99

Metals Analytical Report

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Arsenic	11	0.25	1	47315	EPA 6010A	04/12/99
Barium	230	0.50	1	47315	EPA 6010A	04/12/99
Cadmium	1.4	0.10	1	47315	EPA 6010A	04/12/99
Copper	78	0.50	1	47315	EPA 6010A	04/12/99
Lead	30	0.15	1	47315	EPA 6010A	04/12/99
Zinc	270	2.0	2	47315	EPA 6010A	04/12/99



CLIENT: Geomatrix Consultants
JOB NUMBER: 138713

DATE REPORTED: 04/13/99

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	IDF	QC Batch	Method	Analysis Date
Arsenic	ND	0.25	mg/Kg	1	47315	EPA 6010A	04/12/99
Barium	ND	0.5	mg/Kg	1	47315	EPA 6010A	04/12/99
Cadmium	ND	0.1	mg/Kg	1	47315	EPA 6010A	04/12/99
Copper	ND	0.5	mg/Kg	1	47315	EPA 6010A	04/12/99
Lead	ND	0.15	mg/Kg	1	47315	EPA 6010A	04/12/99
Zinc	ND	1	mg/Kg	1	47315	EPA 6010A	04/12/99

ND = Not Detected at or above reporting limit



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants
JOB NUMBER: 138713

DATE REPORTED: 04/13/99

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	88.5	86	mg/Kg	89	86	80-120	3	35	47315	EPA 6010A	04/12/99
Barium	100	93	90	mg/Kg	93	90	80-120	3	35	47315	EPA 6010A	04/12/99
Cadmium	2.5	2.38	2.38	mg/Kg	95	95	80-120	0	35	47315	EPA 6010A	04/12/99
Copper	12.5	11.75	11.35	mg/Kg	94	91	80-120	4	35	47315	EPA 6010A	04/12/99
Lead	25	23.3	22.15	mg/Kg	93	93	80-120	1	35	47315	EPA 6010A	04/12/99
Zinc	25	21.85	21.55	mg/Kg	87	86	80-120	1	35	47315	EPA 6010A	04/12/99

CLIENT: Geomatrix Consultants
 JOB NUMBER: 138713



Curtis & Tompkins, Ltd

DATE REPORTED: 04/13/99

**BATCH QC REPORT
 SAMPLE DUPLICATE**

Compound	Sample	Sample Result	Duplicate Result	Units	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	138785-001	<0.243	<0.243	mg/Kg	NC	35	47315	EPA 6010A	04/13/99
Barium	138785-001	<0.485	<0.485	mg/Kg	NC	35	47315	EPA 6010A	04/13/99
Cadmium	138785-001	<0.097	<0.097	mg/Kg	NC	35	47315	EPA 6010A	04/13/99
Copper	138785-001	1.597	1.524	mg/Kg	5	35	47315	EPA 6010A	04/13/99
Lead	138785-001	<0.146	<0.146	mg/Kg	NC	35	47315	EPA 6010A	04/13/99
Zinc	138785-001	1.254	1.029	mg/Kg	20	35	47315	EPA 6010A	04/13/99

NC = Not Calculable

CLIENT: Geomatrix Consultants
JOB NUMBER: 138713



Curtis & Tompkins, Ltd.

DATE REPORTED: 04/13/99

BATCH QC REPORT
SAMPLE SPIKE

Compound	Spike Amount	Sample	Sample Result	Spike Result	Units	Percent Rec.	Rec. Limit	QC Batch	Method	Analysis Date
Arsenic	99.01	138785-001	<0.248	85.15	mg/Kg	86	65-135	47315	EPA 6010A	04/12/99
Barium	99.01	138785-001	<0.495	90.59	mg/Kg	92	65-135	47315	EPA 6010A	04/12/99
Cadmium	2.475	138785-001	<0.099	2.391	mg/Kg	97	65-135	47315	EPA 6010A	04/12/99
Copper	12.38	138785-001	1.597	12.97	mg/Kg	92	65-135	47315	EPA 6010A	04/12/99
Lead	24.75	138785-001	<0.149	22.72	mg/Kg	92	65-135	47315	EPA 6010A	04/12/99
Zinc	24.75	138785-001	1.254	22.48	mg/Kg	86	65-135	47315	EPA 6010A	04/12/99

CHAIN-OF-CUSTODY RECORD


Nº 12007

Date: 3/31/99

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	TPH as diesel *											Additional Comments	
Date	Time	Sample Number																				
3/31/99	1040	S-9								XXX											} L.A. SITE S-9, S-10, S-11, S-12 FOR ANALYSIS * As. B, Cd, Cu, Pb, Zn	
3/31/99	1040	S-10								XXX												
3/31/99	1040	S-11								XXX												
3/31/99	1510	S-12								XXX												

Turnaround time: SID, IAT Results to: DEAD JOB Total No. of containers: 4

Relinquished by (signature): <i>[Signature]</i> Printed Name: BLAISE M. YAMAMOTO Company: GEOMETRIX	Date: 3/31/99	Relinquished by (signature): Printed Name: Company:	Date: 4/15	Relinquished by (signature): Printed Name: Company:	Date: 4/15	Method of Shipment: DELIVER TO LAB Laboratory Comments and Log No.:
	Time: 4:45		Time: 4:45		Time: 4:45	
Received by (signature): Printed Name: Company:	Date: 4/15	Received by (signature): Printed Name: Company:	Date: 4/15	Received by (signature): Printed Name: Company:	Date: 4/15	 Geomatrix Consultants 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400
	Time: 1		Time: 1		Time: 1	



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A N A L Y T I C A L R E P O R T

Prepared for:

Geomatrix Consultants
100 Pine Street
10th Floor
San Francisco, CA 94111

Date: 22-APR-99
Lab Job Number: 138889
Project ID: N/A
Location: N/A

Reviewed by:

Reviewed by:

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CURTIS & TOMPKINS, LTD. BERKELEY

LOGIN CHANGE FORM

Reason for change: X Client Request: By: Brad Job Date/Time: 4/13/99 Initials: SEJ
 Login Review

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Due date
138889-001	138656-001	S-1	Ad ^{Sci}	Add	Arsenic	20-APR-99
-002	-002	S-2	↓	↓	↓	↓
-003	-003	S-3	↓	↓	↓	↓
-004	-004	S-4	↓	↓	↓	↓

109906

CHAIN-OF-CUSTODY RECORD

No 12019

Date: 3/23/99

Page 1 of 1

Project No.: 3095.06

Samplers (Signatures):

[Signature]

ANALYSES

REMARKS

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 (6010/7000)	Cooled	Soil (S), Water (W), or Vapor (V)	Acidified	Number of containers
3/23/99	1530	S-1								X	X	S	-	1
3/23/99	1610	S-2								X	X	S	-	1
3/24/99	13:05	S-3								X	X	S	-	1
3/25/99	1650	S-4								X	X	S	-	1

- COMPOSITE S-1, 2, 3, 4 For ANALYSIS.

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

COMPOSITE - 5

2
3
4

~~*[Signature]*~~

Turnaround time: STD. TAT Results to: BRAD SOB Total No. of containers: 4

Relinquished by (signature): *[Signature]*
 Printed Name: BRUCE M. YAMAMOTO
 Company: GEOMATRIX

Date: 3/24/99
 Time: 11:25

Relinquished by (signature):
 Printed Name:
 Company:

Date:
 Time:

Relinquished by (signature):
 Printed Name:
 Company:

Date:
 Time:

Method of Shipment: DELIVER TO LAB

Laboratory Comments and Log No.:

Received by (signature): *[Signature]*
 Printed Name: TRAVORS
 Company: C&T

Date: 3/24/99
 Time: 11:25

Received by (signature):
 Printed Name:
 Company:

Date:
 Time:

Received by (signature):
 Printed Name:
 Company:

Date:
 Time:



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

CLIENT: Geomatrix Consultants
MATRIX: Soil

DATE REPORTED: 04/20/99

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
S-1	138889-001	03/23/99	03/29/99	21	0.25	1	47459	EPA 6010A	04/16/99
S-2	138889-002	03/23/99	03/29/99	36	0.24	1	47459	EPA 6010A	04/16/99
S-3	138889-003	03/24/99	03/29/99	87	0.24	1	47459	EPA 6010A	04/16/99
S-4	138889-004	03/25/99	03/29/99	4.0	0.24	1	47459	EPA 6010A	04/16/99



Curtis & Tompkins, Ltd.



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants
JOB NUMBER: 138889

DATE REPORTED: 04/20/99

BATCH QC REPORT
PREP BLANK

Compound	Result	Reporting Limit	Units	IDF	QC Batch	Method	Analysis Date
Arsenic	ND	0.25	mg/Kg	1	47459	EPA 6010A	04/16/99

ND = Not Detected at or above reporting limit



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants
JOB NUMBER: 138889

DATE REPORTED: 04/20/99

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	86	93.5	mg/Kg	86	94	80-120	8	35	47459	EPA 6010A	04/16/99



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants
JOB NUMBER: 138889

DATE REPORTED: 04/20/99

**BATCH QC REPORT
SAMPLE DUPLICATE**

Compound	Sample	Sample Result	Duplicate Result	Units	RPD %	RPD Limit	QC Batch	Method	Analysis Date
Arsenic	138895-021	11.95	12.91	mg/Kg	8	35	47459	EPA 6010A	04/16/99



Curtis & Tompkins, Ltd.

CLIENT: Geomatrix Consultants
JOB NUMBER: 138889

DATE REPORTED: 04/20/99

**BATCH QC REPORT
SAMPLE SPIKE**

Compound	Spike Amount	Sample	Sample Result	Spike Result	Units	Percent Rec.	Rec. Limit	QC Batch	Method	Analysis Date
Arsenic	99.5	138895-021	11.95	95.02	mg/Kg	83	65-135	47459	EPA 6010A	04/16/99

CHAIN-OF-CUSTODY RECORD

Nº 12013

Date: 3/23/99

Page 1 of 1

Project No.: 3095.06			ANALYSES											REMARKS													
Samplers (Signatures):			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 (Cd, Pb, Cu)													Additional Comments				
Date	Time	Sample Number																									
3/23/99	1530	S-1								XXXX																- COMPOSITE S-1, 2, 3, 4 FOR ANALYSES. * Ag, Ba, Cd, Cu, Pb, Zn COMPOSITE	
3/23/99	1610	S-2							XXXX																		
3/24/99	1309	S-3							XXXX																		
3/23/99	1640	S-4							XXXX																		

Turnaround time: SID TAT
 Results to: DRAP S.S
 Total No. of containers: 4

Relinquished by (signature): Printed Name: Bruce M. Yamamoto Company: GEOMETRIX	Date: 3/23/99 Time: 11:25	Relinquished by (signature): Printed Name: Company: 	Date: Time: 	Relinquished by (signature): Printed Name: Company: 	Date: Time: 	Method of Shipment: TRUCK TO LAB Laboratory Comments and Log No.:
Received by (signature): Printed Name: TRAVES Company: C+T	Date: 3/23/99 Time: 11:25	Received by (signature): Printed Name: Company: 	Date: Time: 	Received by (signature): Printed Name: Company: 	Date: Time: 	 Geomatrix Consultants 100 Pine Street, 10th Floor San Francisco, California 94111 415 434 9400