02-0124

GEOCON
CONSULTANTS, INC.

GEOTECHNICAL ▪ ENVIRONMENTAL ▪ MATERIALS

Project No. S9014-06-03
February 1, 2006

RECEIVED
FEB 02 2006
PLANNING DEPT.

Mr. Dave Miller
Parlin Development Company
11354 White Rock Road
Rancho Cordova, CA 95742

Subject: BEAVER CREEK RESIDENTIAL DEVELOPMENT
GRANITE BAY, PLACER COUNTY, CALIFORNIA
LIMITED SOIL SAMPLING AND ANALYTICAL TESTING

Dear Mr. Miller:

In accordance with your request, and the requirements set forth by Placer County Department of Environmental Health (PCDEH), we have performed limited environmental soil sampling and analytical testing services for the subject project. The Site consists of approximately 17 acres of undeveloped land located on the southeast corner of the intersection of Woodgrove Way and Douglas Boulevard, east of Sierra College Boulevard, in Granite Bay, Placer County, California. The approximate location of the Site is depicted on the Vicinity Map, Figure 1.

BACKGROUND

The project consists of subdividing the Site into seven lots for custom, single-family residential development. Development will occur on both sides of Strap Ravine – a seasonal creek and riparian zone that extends across the central portion of the Site. Tailings consisting of primarily sand and gravel from historic dredging of the ravine for gold are present within and along the south and north edges of Strap Ravine. In a *Memorandum* dated January 3, 2006, PCDEH requested a limited investigation of the dredge tailings at the Site prior to making an environmental determination for the project. Specifically, PCDEH requested testing of tailings samples for arsenic and mercury utilizing CAM 17 heavy metal testing protocols. Subsequent to the *Memorandum*, PCDEH also verbally requested that we add testing for lead.

SCOPE OF SERVICES

This section describes the sampling activities and sample analyses that were performed.

Field Sampling

Field sampling consisted of the following activities:

- Obtained ten surface [0 to 0.5 feet below the ground surface (bgs)] soil samples (SS1 through SS10 on Figure 2) within the dredge tailings at the Site on Janaury 16, 2006 (Figure 2). Tailings samples were obtained using a pre-cleaned stainless steel trowel and placed in laboratory-provided glass sample jars.
- Obtained four "background" soil samples (BG1 through BG4 on Figure 2) using the same sampling procedures outside of dredge tailing areas.
- After reviewing initial laboratory results, obtained additional tailings samples at the Site as follows:

- Obtained deeper tailings samples (2 to 2.5 feet below the ground surface) at the SS1 and SS9 sample locations (Figure 2).
- Obtained four additional surface (0 to 6 inches bgs) and four additional deeper (2 to 2.5 feet bgs) tailings samples (SS11 through SS14) in locations approximately 10 feet from SS1 and SS9 sample locations (Figure 2).

Soil types encountered were noted on field logs and described in general accordance with the Unified Soil Classification System (USCS). The samples were labeled, stored in an ice chest, and submitted under chain-of-custody documentation to Advanced Technology Laboratories (ATL) of Signal Hill, California, a California Department of Health Services-certified analytical laboratory, for testing.

QA/QC procedures were performed during the field activities. These procedures included cleansing/rinsing sampling equipment prior to each sampling effort and providing chain-of-custody documentation for each sample collected and transferred to the laboratory for analytical testing.

Analytical Testing

The 14 surface tailings and soil samples (including the four background samples) were analyzed by ATL under 48-hour expedited turn-around-time for arsenic and lead following Environmental Protection Agency (EPA) Test Method 6010B and for mercury following EPA Test Method 7471A. The additional tailings samples were analyzed by ATL under 48-hour expedited turn-around-time for lead following EPA Test Method 6010B and for mercury following EPA Test Method 7471A. QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC including:

- One method blank for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever is more frequent, with spike made at ten times the detection limit or at the analyte level.

INVESTIGATION RESULTS

Field Observations

Soil conditions within the dredge tailings generally consisted of poorly graded sand (SP) with gravel and gravel with sand (GP). Soil conditions outside of the dredge tailings generally consisted of silty sand (SM), clayey sand (SC), sandy silt (ML) and sandy lean clay (CL) with scattered gravel. We did not observe stained or odorous soil or evidence of debris materials at each sampling location.

Soil Analytical Data

Soil analytical test results are summarized below and on Table 1, attached to this letter. Copies of laboratory reports and chain-of-custody documentation are also attached.

- Arsenic was not detected at concentrations exceeding the laboratory test method detection limit of 1.0 milligram per milligram (mg/kg) in any of the tailings or soil samples.
- Lead was detected in each sample at concentrations ranging from 1.3 mg/kg to 36 mg/kg. These values are significantly below the California Human Health Screening Level (CHHSL) for

residential land use and California-modified EPA residential soil Preliminary Remediation Goal (PRG) of 150 mg/kg. An anomalously high lead result of 3,200 mg/kg was initially reported for sample SS1-0-0.5; however, reanalysis of the sample by the laboratory yielded a result of 36 mg/kg.

- Mercury was detected in six tailings samples and one background soil sample at concentrations ranging from 0.13 to 5.1 mg/kg. These values are significantly below the CHHSL of 18 mg/kg for residential land use and the California-modified EPA residential soil PRG of 23 mg/kg. An anomalously high result of 13 mg/kg was initially reported for sample SS9-0-0.5; however, reanalysis of the sample by the laboratory did not detect mercury above the laboratory method detection limit of 0.10 mg/kg.

CONCLUSIONS AND RECOMMENDATIONS

Laboratory test results show that arsenic was not detected, and lead and mercury concentrations are significantly less than California and federal EPA residential soil criteria. All of the reported concentrations of lead and most of the reported concentrations of mercury are consistent with naturally occurring levels of these metals when compared to California soil background data published by Bradford, et al. in the Kearney Foundation Special Report: *Background Concentrations of Trace and Major Elements in California Soils* (March 1996). Three of the reported concentrations of mercury (13 mg/kg for SS9-0-0.5, 5.1 mg/kg for SS9-2-2.5 and 2.9 mg/kg for SS11-0-0.5) could be considered higher than naturally occurring levels and may be due to past mining activities on the Site but are less than residential soil criteria.

The anomalous concentration of lead reported for sample SS1-0-0.5 may have been due to contamination of the sample by a flake of lead-containing paint or some other unknown source of lead. No evidence of former structures or waste materials was observed in or around the sample location. The result of reanalysis of sample SS1-0-0.5 (36 mg/kg lead) as well as the results of analysis of four additional tailings samples (2.5 to 19 mg/kg) collected from locations approximately 10 feet from the original sample location shows that the source of elevated lead is not extensive or pervasive.

Based on the results of the investigation, additional assessment of heavy metals in tailings and soil at the Site does not appear to be warranted at this time.

REPORT LIMITATIONS

This report has been prepared exclusively for Parlin Development. The information contained herein is only valid as of the date of the report.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence or consultation either expressed or implied. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

Please contact us if you have any questions regarding this limited soil sampling report.

Sincerely,

GEOCON CONSULTANTS, INC.

Jim Brake

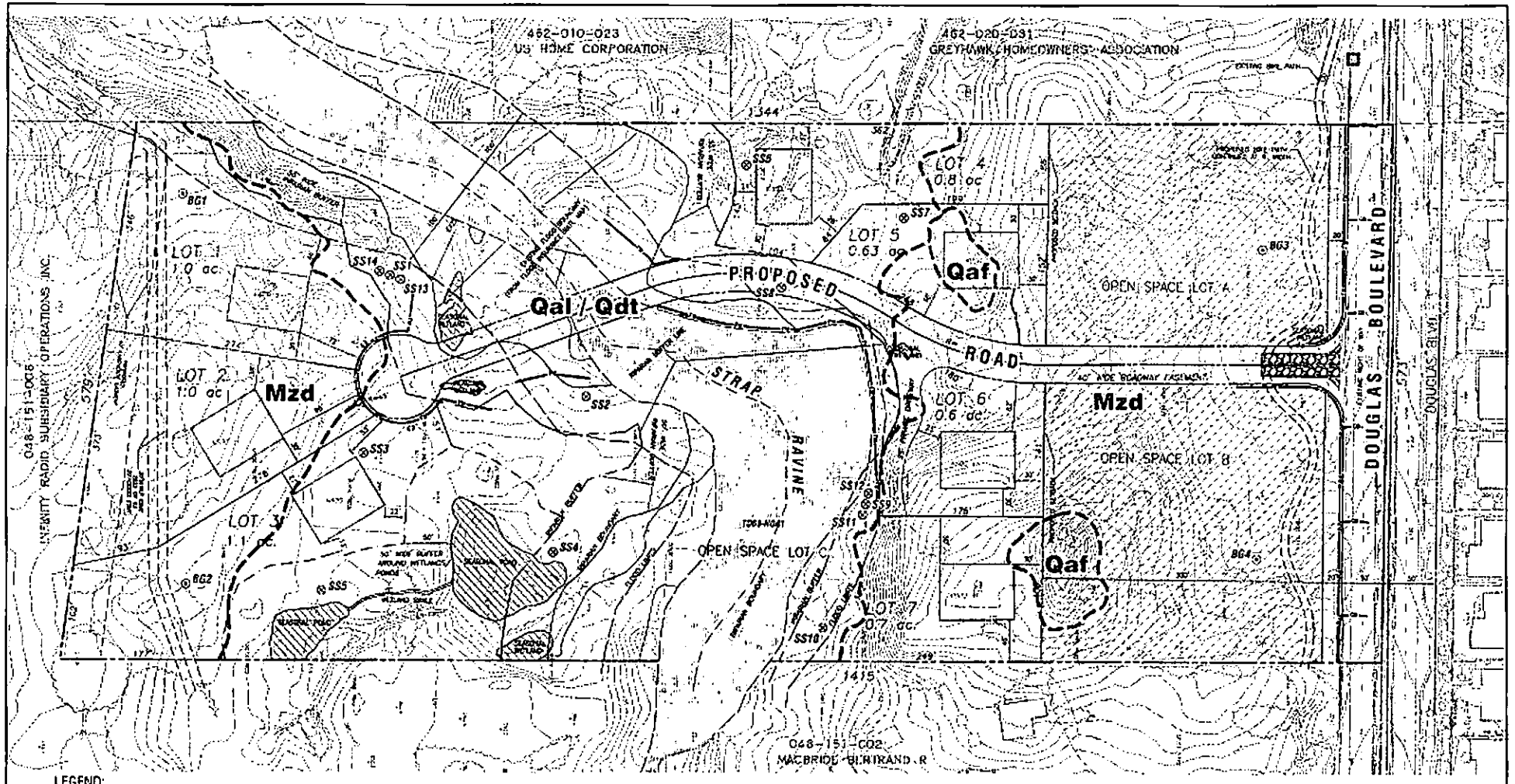
James Brake, PG
Senior Geologist

Jeremy J. Zorne, PE, GE
Sr. Project Engineer

JJZ:JB:jaj

(3) Addressee

Attachments: Figure 1, Vicinity Map
Figure 2, Site Plan
Table 1, Summary of Soil Analytical Data – Total Arsenic, Lead, and Mercury
Laboratory Reports and Chain-of-Custody Documentation



LEGEND:

- SS1 ⊗ Approximate Soil Sample Location
- BG1 ⊗ Approximate Background Soil Sample Location
- — — — — Approximate Geologic Contact
- **Qaf** Artificial Fill
- **Qal** Alluvium
- **Qdt** Dredge Tailings
- **Mzd** Mesozoic Dioritic Intrusive Rock (Rocklin Pluton)

0 100
Scale in Feet

GEOCON CONSULTANTS, INC.

Beaver Creek Subdivision
Granite Bay,
Placer County, California

SITE PLAN

S9014-06-03	February 2006	Figure 2

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA - TOTAL ARSENIC, LEAD, AND MERCURY
BEAVER CREEK SUBDIVISION
PLACER COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DEPTH (feet)	ARSENIC (mg/kg)	LEAD (mg/kg)	MERCURY (mg/kg)
SS1-0-0.5	0 - 0.5	<1.0	3,200 / 36 [1]	<0.10
SS1-2-2.5	2 - 2.5	---	1.8	<0.10
SS2-0-0.5	0 - 0.5	<1.0	6.9	<0.10
SS3-0-0.5	0 - 0.5	<1.0	4	<0.10
SS4-0-0.5	0 - 0.5	<1.0	9.3	<0.10
SS5-0-0.5	0 - 0.5	<1.0	10	<0.10
SS6-0-0.5	0 - 0.5	<1.0	7.1	<0.10
SS7-0-0.5	0 - 0.5	<1.0	8.2	<0.10
SS8-0-0.5	0 - 0.5	<1.0	1.3	<0.10
SS9-0-0.5	0 - 0.5	<1.0	10	13 / <0.10 [1]
SS9-2-2.5	2 - 2.5	---	5.1	5.1
SS10-0-0.5	0 - 0.5	<1.0	7.2	<0.10
SS11-0-0.5	0 - 0.5	---	6.2	2.9
SS11-2-2.5	2 - 2.5	---	6.4	0.11
SS12-0-0.5	0 - 0.5	---	19	0.13
SS12-2-2.5	2 - 2.5	---	2.5	0.46
SS13-0-0.5	0 - 0.5	---	7.2	<0.10
SS13-2-2.5	2 - 2.5	---	2.1	<0.10
SS14-0-0.5	0 - 0.5	---	7.5	<0.10
SS14-2-2.5	2 - 2.5	---	1.3	<0.10
BACKGROUND SAMPLES				
BG1-0-0.5	0 - 0.5	<1.0	3.0	<0.10
BG2-0-0.5	0 - 0.5	<1.0	3.1	0.32
BG3-0-0.5	0 - 0.5	<1.0	15	<0.10
BG4-0-0.5	0 - 0.5	<1.0	18	<0.10
PRG [2]		0.062	150	23
CHHSL [3]		0.07	150	18
Background Concentration [4]		3.5 (0.6 - 11.0)	23.9 (12.4 - 97.1)	0.26 (0.05 - 0.90)

Notes:

mg/kg = Milligrams per kilogram < = Less than laboratory test method detection limits

EPA = Environmental Protection Agency PRG = Preliminary Remediation Goal

[1] Reanalysis Test Result

[2] PRG = USEPA California-Modified Preliminary Remediation Goal for Residential Soil, October 2004

[3] CHHSL = California Human Health Screening Levels for Residential Land Use, California Environmental Protection Agency, January 2005

[4] Background Concentration (mean and range) from: *Background Concentrations of Trace and Major Elements in California Soils*, Kearney Foundation Special Report, University of California, March 1996

January 24, 2006

Lance Ablang
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 081293

RE: BEAVER CREEK SUBDIV, S9014-06-03

Attention: Lance Ablang

Enclosed are the results for sample(s) received on January 17, 2006 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories

Date: *24-Jan-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	SS1-0-0.5
Lab Order:	081293		
Project:	BEAVER CREEK SUBDIV, S9014-06-03	**Collection Date:**	1/16/2006 11:10:00 AM
Lab ID:	081293-001A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: RQ
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	36	1.0		mg/Kg	1	1/21/2006
Lead	3200	20		mg/Kg	20	1/18/2006

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
R - RPD outside acceptable recovery limits.

Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *24-Jan-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	SS9-0-0.5
Lab Order:	081293		
Project:	BEAVER CREEK SUBDIV, S9014-06-03	**Collection Date:**	1/16/2006 12:10:00 PM
Lab ID:	081293-009A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
MERCURY BY COLD VAPOR TECHNIQUE (EPA 7471)				**EPA 7471A**		
RunID: AA5_060121B	QC Batch: 26374			PrepDate:	1/20/2006	Analyst: NS
Mercury	ND	0.10		mg/Kg	1	1/21/2006
Mercury	13	1.0		mg/Kg	10	1/18/2006

Qualifiers:

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- DQ - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interferen
- H - Sample exceeded analytical holding time
- E - Value above quantitation range
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *24-Jan-06*

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-26298 SampType: MBLK TestCode: 6010_S Units: mg/Kg Prep Date: 1/17/2006 Run ID: ICP6_060117G
Client ID: ZZZZZ Batch ID: 26298 TestNo: EPA 6010B (EPA 3050B) Analysis Date: 1/17/2006 SeqNo: 863065

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: MB-26298 SampType: MBLK TestCode: 6010_S Units: mg/Kg Prep Date: 1/17/2006 Run ID: ICP6_060117G
Client ID: ZZZZZ Batch ID: 26298 TestNo: EPA 6010B (EPA 3050B) Analysis Date: 1/18/2006 SeqNo: 863321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: MB-26370 SampType: MBLK TestCode: 6010_S Units: mg/Kg Prep Date: 1/20/2006 Run ID: ICP6_060121A
Client ID: ZZZZZ Batch ID: 26370 TestNo: EPA 6010B (EPA 3050B) Analysis Date: 1/21/2006 SeqNo: 865492

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: MB-26370 SampType: MBLK TestCode: 6010_S Units: mg/Kg Prep Date: 1/20/2006 Run ID: ICP6_060121A
Client ID: ZZZZZ Batch ID: 26370 TestNo: EPA 6010B (EPA 3050B) Analysis Date: 1/22/2006 SeqNo: 865560

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1.0									

Sample ID: LCS-26298 SampType: LCS TestCode: 6010_S Units: mg/Kg Prep Date: 1/17/2006 Run ID: ICP6_060117G
Client ID: ZZZZZ Batch ID: 26298 TestNo: EPA 6010B (EPA 3050B) Analysis Date: 1/17/2006 SeqNo: 863066

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.67	1.0	50	0	101	80	120	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-26298	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2006	Run ID: ICP6_060117G
Client ID: ZZZZZ	Batch ID: 26298	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/18/2006	SeqNo: 863322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.38	1.0	50	0	101	80	120	0	0		

Sample ID: LCS-26370	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/20/2006	Run ID: ICP6_060121A
Client ID: ZZZZZ	Batch ID: 26370	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/21/2006	SeqNo: 865493

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.95	1.0	50	0	99.9	80	120	0	0		

Sample ID: LCS-26370	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/20/2006	Run ID: ICP6_060121A
Client ID: ZZZZZ	Batch ID: 26370	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/22/2006	SeqNo: 865561

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.15	1.0	50	0	98.3	80	120	0	0		

Sample ID: 081293-014AMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2006	Run ID: ICP6_060117G
Client ID: ZZZZZ	Batch ID: 26298	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/17/2006	SeqNo: 863086

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	122.6	1.0	125	17.81	83.8	47	125	0	0		

Sample ID: 081389-003DMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/20/2006	Run ID: ICP6_060121A
Client ID: ZZZZZ	Batch ID: 26370	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/21/2006	SeqNo: 865502

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	108.3	1.0	125	4.297	83.2	47	125	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 081293-014AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/17/2008	Run ID: ICP6_060117G-
Client ID: ZZZZZ	Batch ID: 28298	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/17/2008	SeqNo: 863067

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	127.8	1.0	125	17.61	88	47	125	122.6	4.14	20	

Sample ID: 081389-003DMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 1/20/2008	Run ID: ICP6_060121A
Client ID: ZZZZZ	Batch ID: 28370	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 1/21/2008	SeqNo: 865503

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	110	1.0	125	4.297	84.6	47	125	108.3	1.59	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-26297	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/17/2006	Run ID: AA5_060117B
Client ID: ZZZZZ	Batch ID: 26297	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/17/2006	SeqNo: 864002

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: MB-26374	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/20/2006	Run ID: AA5_060121B
Client ID: ZZZZZ	Batch ID: 26374	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/21/2006	SeqNo: 865699

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: LCS-26297	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/17/2006	Run ID: AA5_060117B
Client ID: ZZZZZ	Batch ID: 26297	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/17/2006	SeqNo: 864001

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.273	0.10	2.08	0	109	80	120	0	0		

Sample ID: LCS-26374	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/20/2006	Run ID: AA5_060121B
Client ID: ZZZZZ	Batch ID: 26374	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/21/2006	SeqNo: 865698

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.386	0.10	2.08	0	115	80	120	0	0		

Sample ID: 081293-014AMS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 1/17/2006	Run ID: AA5_060117B
Client ID: ZZZZZ	Batch ID: 26297	TestNo: EPA 7471A	(EPA 7471)	Analysis Date: 1/17/2006	SeqNo: 863999

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8517	0.10	0.83	0.03402	98.5	62	146	0	0		

Qualifiers:
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: 081322-003AMS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 1/20/2006 | Run ID: AA5_060121B
Client ID: ZZZZZ | Batch ID: 26374 | TestNo: EPA 7471A | (EPA 7471) | Analysis Date: 1/21/2006 | SeqNo: 865698

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9391	0.10	0.83	0.01245	112	52	163	0	0		

Sample ID: 081293-014AMSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 1/17/2006 | Run ID: AA5_060117B
Client ID: ZZZZZ | Batch ID: 26297 | TestNo: EPA 7471A | (EPA 7471) | Analysis Date: 1/17/2006 | SeqNo: 864000

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8464	0.10	0.83	0.03402	97.9	62	148	0.8517	0.630	30	

Sample ID: 081322-003AMSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 1/20/2006 | Run ID: AA5_060121B
Client ID: ZZZZZ | Batch ID: 26374 | TestNo: EPA 7471A | (EPA 7471) | Analysis Date: 1/21/2006 | SeqNo: 865697

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.9422	0.10	0.83	0.01245	112	52	163	0.9391	0.325	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Diane Galvan

From: Jeremy Zorne [zorne@geoconinc.com]
Sent: Friday, January 20, 2006 9:01 AM
To: Diane Galvan
Subject: RE: Results - BEAVER CREEK SUBDIV (081293)
Importance: High

Good Morning Diane:

Two samples had anomalously high lead and mercury. Could you please re-homogenize the following samples and reanalyze as follows:

- 081293-001 (SS1-0-0.5): lead (EPA 6010B) – 48 Hr. TAT
- 081293-009 (SS9-0-0.5): mercury (EPA 7471A) – 48 Hour TAT

Thanks,

Jeremy J. Zorne, PE, GE
Senior Project Engineer

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742
OFFICE: 916-852-9118
FAX: 916-852-9132
MOBILE: 916-870-6888
www.geoconinc.com

From: Lance Ablang [mailto:ablang@geoconinc.com]
Sent: Friday, January 20, 2006 8:33 AM
To: 'Jeremy Zorne'
Subject: FW: Results - BEAVER CREEK SUBDIV (081293)

Lance O. Ablang, EIT
Senior Staff Engineer

Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
tel 916.852.9118
fax 916.852.9132

January 19, 2006

Lance Ablang
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 081293

RE: BEAVER CREEK SUBDIV, S9014-06-03

Attention: Lance Ablang

Enclosed are the results for sample(s) received on January 17, 2006 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories **Date:** *19-Jan-06*

CLIENT:	Geocon Consultants, Inc.
Project:	BEAVER CREEK SUBDIV, S9014-06-03
Lab Order:	081293

CASE NARRATIVE

Analytical Comments for Method 6010

Dilution was necessary for samples 081293-001A and 081293-004A, due to sample matrix.

Analytical Comments for Method 7471

Dilution was necessary for sample 081293-009A, due to sample matrix.

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081293

Lab ID: *081293-001* **Collection Date:** 1/16/2006 11:10:00 AM
Client Sample ID: SS1-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	3200	20		mg/Kg	20	1/18/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Lab ID: 081293-002 **Collection Date:** 1/16/2006 10:55:00 AM
Client Sample ID: SS2-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	6.9	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081293

Lab ID: 081293-003 **Collection Date:** 1/16/2006 11:05:00 AM
Client Sample ID: SS3-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	4.0	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Lab ID: 081293-004 **Collection Date:** 1/16/2006 10:45:00 AM
Client Sample ID: SS4-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	2.0		mg/Kg	2	1/18/2006
Lead	9.3	2.0		mg/Kg	2	1/18/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081293

Lab ID: 081293-005 **Collection Date:** 1/16/2006 10:35:00 AM
Client Sample ID: SS5-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	10	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Lab ID: 081293-006 **Collection Date:** 1/16/2006 11:50:00 AM
Client Sample ID: SS6-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	7.1	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: *081293*

Lab ID: 081293-007 **Collection Date:** 1/16/2006 11:40:00 AM
Client Sample ID: SS7-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298				PrepDate: 1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	8.2	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297				PrepDate: 1/17/2006	Analyst: **NS**
Mercury	0.18	0.10		mg/Kg	1	1/17/2006

Lab ID: 081293-008 **Collection Date:** 1/16/2006 12:00:00 PM
Client Sample ID: SS8-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298				PrepDate: 1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	1.3	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297				PrepDate: 1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above *quantitation range*
H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081293

Lab ID: 081293-009 **Collection Date:** 1/16/2006 12:10:00 PM
Client Sample ID: SS9-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	10	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	13	1.0		mg/Kg	10	1/18/2006

Lab ID: 081293-010 **Collection Date:** 1/16/2006 12:20:00 PM
Client Sample ID: SS10-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	7.2	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081293

Lab ID: 081293-011
Client Sample ID: BG1-0-0.5
Collection Date: 1/16/2006 10:20:00 AM
Matrix: SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	3.0	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Lab ID: 081293-012
Client Sample ID: BG2-0-0.5
Collection Date: 1/16/2006 10:25:00 AM
Matrix: SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	3.1	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	0.32	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DQ - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *19-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081293

Lab ID: 081293-013 **Collection Date:** 1/16/2006 11:25:00 AM
Client Sample ID: BG3-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	15	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Lab ID: 081293-014 **Collection Date:** 1/16/2006 11:20:00 AM
Client Sample ID: BG4-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050B)			**EPA 6010B**		
RunID: ICP6_060117G	QC Batch: 26298			PrepDate:	1/17/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	1/17/2006
Lead	18	1.0		mg/Kg	1	1/17/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA5_060117B	QC Batch: 26297			PrepDate:	1/17/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/17/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

Results are wet unless otherwise specified

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-26298 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 1/17/2006 | Run ID: ICP6_060117G
Client ID: ZZZZZ | Batch ID: 26298 | TestNo: EPA 6010B (EPA 3050B) | Analysis Date: 1/17/2006 | SeqNo: 863065

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	ND	1.0									

Sample ID: MB-26298 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 1/17/2006 | Run ID: ICP6_060117G
Client ID: ZZZZZ | Batch ID: 26298 | TestNo: EPA 6010B (EPA 3050B) | Analysis Date: 1/18/2006 | SeqNo: 863321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	ND	1.0									

Sample ID: LCS-26298 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 1/17/2006 | Run ID: ICP6_060117G
Client ID: ZZZZZ | Batch ID: 26298 | TestNo: EPA 6010B (EPA 3050B) | Analysis Date: 1/17/2006 | SeqNo: 863066

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.64	1.0	50	0	97.3	80	120	0	0		
Lead	50.67	1.0	50	0	101	80	120	0	0		

Sample ID: LCS-26298 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 1/17/2006 | Run ID: ICP6_060117G
Client ID: ZZZZZ | Batch ID: 26298 | TestNo: EPA 6010B (EPA 3050B) | Analysis Date: 1/18/2006 | SeqNo: 863322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.58	1.0	50	0	97.2	80	120	0	0		
Lead	50.38	1.0	50	0	101	80	120	0	0		

Sample ID: 081293-014AMS | SampType: MS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 1/17/2006 | Run ID: ICP6_060117G
Client ID: BG4-0-0.5 | Batch ID: 26298 | TestNo: EPA 6010B (EPA 3050B) | Analysis Date: 1/17/2006 | SeqNo: 863086

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values.
DO- Surrogate dilute out.
H - Sample exceeded holding time

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **081293-014AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **1/17/2006** Run ID: **ICP6_060117G**
Client ID: **BG4-0-0.5** Batch ID: **26298** TestNo: **EPA 6010B (EPA 3050B)** Analysis Date: **1/17/2006** SeqNo: **863086**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	105.6	1.0	125	0	84.5	64	111	0	0		
Lead	122.6	1.0	125	17.81	83.8	47	125	0	0		

Sample ID: **081293-014AMSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **1/17/2006** Run ID: **ICP6_060117G**
Client ID: **BG4-0-0.5** Batch ID: **26298** TestNo: **EPA 6010B (EPA 3050B)** Analysis Date: **1/17/2006** SeqNo: **863087**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	109.9	1.0	125	0	87.9	64	111	105.6	3.99	20	
Lead	127.8	1.0	125	17.81	88	47	125	122.6	4.14	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Geocon Consultants, Inc.
Work Order: 081293
Project: BEAVER CREEK SUBDIV, S9014-06-03

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-26297** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **1/17/2006** Run ID: **AA5_060117B**
Client ID: **ZZZZZ** Batch ID: **26297** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **1/17/2006** SeqNo: **864002**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-26297** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **1/17/2006** Run ID: **AA5_060117B**
Client ID: **ZZZZZ** Batch ID: **26297** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **1/17/2006** SeqNo: **864001**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.273	0.10	2.08	0	109	80	120	0	0		

Sample ID: **081293-014AMS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **1/17/2006** Run ID: **AA5_060117B**
Client ID: **BG4-0-0.5** Batch ID: **26297** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **1/17/2006** SeqNo: **863999**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8517	0.10	0.83	0.03402	98.5	62	146	0	0		

Sample ID: **081293-014AMSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **1/17/2006** Run ID: **AA5_060117B**
Client ID: **BG4-0-0.5** Batch ID: **26297** TestNo: **EPA 7471A** **(EPA 7471)** Analysis Date: **1/17/2006** SeqNo: **864000**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8464	0.10	0.83	0.03402	97.9	62	146	0.8517	0.630	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: 01/17/06

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: GSO

Sample Condition Upon Receipt:
1. CHILLED 10.4 Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA): Y☐ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: GEOCON CONSULTANTS, INC.
Attn: LANCE ABLANG
Address: 9160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: BEAVER CREEK SUBDIV. Project #: 59014-06-03 Sampler: (Printed Name) LANCE ABLANG (Signature)

Relinquished by: (Signature and Printed Name) LANCE ABLANG Date: 1/16/06 Time: 1700 Received by: (Signature and Printed Name) GSO Date: 1/16/05 Time: 1900
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: 01/17/06 Time: 9:00
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: LANCE ABLANG 1/16/06
Print Name Date
Signature

Send Report To: Attn: _____ Co: _____ Address _____ City _____ State _____ Zip _____

Bill To: Attn: _____ Co: _____ Address _____ City _____ State _____ Zip _____

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(ses) Requested: 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C (BNA) | 8015B (Total Metals) | 8015B (GRO) / BTEX | 8015B (DRO) | EPA 6010/6020 | EPA 7471A (Hg)

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

PRESERVATION: QA/QC RTNE ☑ QT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	TAT	Container(s) #	Container(s) Type	REMARKS
	08/297-001	SS1-0-0.5	1/16	1130	C	1	J	G
	-002	SS2-0-0.5	1/16	1055	C	1	J	G
	-003	SS3-0-0.5	1/16	1105	C	1	J	G
	-004	SS4-0-0.5	1/16	1045	C	1	J	G
	-005	SS5-0-0.5	1/16	1035	C	1	J	G
	-006	SS6-0-0.5	1/16	1130	C	1	J	G
	-007	SS7-0-0.5	1/16	1140	C	1	J	G
	-008	SS8-0-0.5	1/16	1200	C	1	J	G
	-009	SS9-0-0.5	1/16	1210	C	1	J	G
	-010	SS10-0-0.5	1/16	1220	C	1	J	G

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr. B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: 01/17/06

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: GSO

Sample Condition Upon Receipt:
1. CHILLED to 4 Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: GEOCON CONSULTANTS, INC.
Attn:
Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

Project Name: Beaver Creek subdivision Project #: 59014-06-03 Sampler: (Printed Name) LINDSAY CAROLLA (Signature) [signature] 1/16/05 1:15p

Relinquished by: (Signature and Printed Name) LINCE BLANC Date: 1/16/06 Time: 1400 Received by: (Signature and Printed Name) TE 635 Date: 01/17/06 Time: 9:00
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: LINCE BLANC 1/16/06 (Print Name, Date) [signature] (Signature)

Send Report To: Attn: Co: Address: City State Zip

Bill To: Attn: Co: Address: City State Zip

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☑ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	8015B (Total Metal)	8015B (GRO) / BTEX	8015B (DRO)	EPA 6010B (As, Pb)	EPA 7471A (Hg)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	05/293 - 011	BG 1 - 0 - 0.5	1/16	10:20														C	1	J G		
	- 012	BG 2 - 0 - 0.5	1/16	10:25														C	1	J G		
	- 013	BG 3 - 0 - 0.5	1/16	11:25														C	1	J G		
	- 014	BG 4 - 0 - 0.5	1/16	11:20														C	1	J G		
																		C	1	J G		
																		C	1	J G		
																		C	1	J G		
																		C	1	J G		
																		C	1	J G		
																		C	1	J G		
																		C	1	J G		

COA

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

Advanced Technology Laboratories

Date: *30-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081517

Lab ID: 081517-001 **Collection Date:** 1/25/2006 3:06:00 PM
Client Sample ID: SS1-2-2.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				EPA 6010B		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: RQ
Lead	1.8	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				EPA 7471A		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: NS
Mercury	ND	0.10		mg/Kg	1	1/27/2006

Lab ID: 081517-002 **Collection Date:** 1/25/2006 2:30:00 PM
Client Sample ID: SS9-2-2.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				EPA 6010B		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: RQ
Lead	5.1	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				EPA 7471A		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: NS
Mercury	5.1	0.20		mg/Kg	2	1/27/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

PRELIMINARY

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *30-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081517

Lab ID: 081517-003 **Collection Date:** 1/25/2006 2:35:00 PM
Client Sample ID: SS11-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)			**EPA 6010B**			
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	6.2	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)			**EPA 7471A**			
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	2.9	0.10		mg/Kg	1	1/27/2006

Lab ID: 081517-004 **Collection Date:** 1/25/2006 2:40:00 PM
Client Sample ID: SS11-2-2.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)			**EPA 6010B**			
RunID: ICP6_060130A	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	6.4	5.0		mg/Kg	5	1/30/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)			**EPA 7471A**			
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	0.11	0.10		mg/Kg	1	1/27/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

PRELIMINARY

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *30-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081517

Lab ID: 081517-005 **Collection Date:** 1/25/2006 2:42:00 PM
Client Sample ID: SS12-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	19	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	0.13	0.10		mg/Kg	1	1/27/2006

Lab ID: 081517-006 **Collection Date:** 1/25/2006 2:49:00 PM
Client Sample ID: SS12-2-2.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	2.5	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	0.46	0.10		mg/Kg	1	1/27/2006

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

PRELIMINARY

Results are wet unless othewise specified

Advanced Technology Laboratories

Date: *30-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081517

Lab ID: 081517-007 **Collection Date:** 1/25/2006 3:12:00 PM
Client Sample ID: SS13-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	7.2	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/27/2006

Lab ID: 081517-008 **Collection Date:** 1/25/2006 3:32:00 PM
Client Sample ID: SS13-2-2.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	2.1	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/27/2006

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

PRELIMINARY

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *30-Jan-06*

CLIENT: Geocon Consultants, Inc.
Project: BEAVER CREEK SUBDIV, S9014-06-03
Lab Order: 081517

Lab ID: 081517-009 **Collection Date:** 1/25/2006 3:22:00 PM
Client Sample ID: SS14-0-0.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	7.5	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/27/2006

Lab ID: 081517-010 **Collection Date:** 1/25/2006 3:28:00 PM
Client Sample ID: SS14-2-2.5 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
(EPA 3050B)				**EPA 6010B**		
RunID: ICP6_060127E	QC Batch: 26453			PrepDate:	1/27/2006	Analyst: **RQ**
Lead	1.3	1.0		mg/Kg	1	1/27/2006
MERCURY BY COLD VAPOR TECHNIQUE						
(EPA 7471)				**EPA 7471A**		
RunID: AA5_060127A	QC Batch: 26454			PrepDate:	1/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	1/27/2006

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated method blank
DO - Surrogate Diluted Out
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceeding holding time

PRELIMINARY

Results are wet unless otherwise specified

GEOCON

CONSULTANTS, INC

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

ADDITIONAL ENVIRONMENTAL ASSESSMENT OF DREDGE TAILINGS

PROPOSED BEAVER CREEK SUBDIVISION
GRANITE BAY, CALIFORNIA
PLACER COUNTY

PREPARED FOR

Mr. DAVID MILLER
PARLIN DEVELOPMENT COMPANY
11354 WHITE ROCK ROAD
RANCHO CORDOVA, CA 95742

GEOCON PROJECT NO. S9014-06-03

RECEIVED
APR 05 2006
ENVIRONMENTAL COORDINATION SERVICES

MARCH 2006

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ▪ ENVIRONMENTAL ▪ MATERIALS

Project No. S9014-06-03
March 31, 2006

VIA ELECTRONIC MAIL AND U.S. MAIL

Mr. David Miller
Parlin Development Company
11354 White Rock Road
Rancho Cordova, CA 95742

Subject: PROPOSED BEAVER CREEK SUBDIVISION
ASSESSOR'S PARCEL NUMBER 048-151-001
GRANITE BAY, PLACER COUNTY, CALIFORNIA
ADDITIONAL ENVIRONMENTAL ASSESSMENT OF DREDGE TAILINGS

Dear Mr. Miller:

In accordance with your request, we have performed additional environmental assessment of dredge tailings at the proposed Beaver Creek Subdivision located at the southeast corner of the intersection of Woodgrove Way and Douglas Boulevard in Granite Bay, Placer County, California (the Site). The Site consists of a rectangular 17.1-acre undeveloped parcel identified as Placer County Assessor's Parcel Number 048-151-001. Figure 1 shows the location of the Site.

BACKGROUND

Geotechnical investigation of the Site conducted in July 2005 found that the Site is underlain by weathered granitic soil associated with the Rocklin Pluton and alluvial deposits and dredge tailings (alluvium that was dredged and re-deposited) in Strap Ravine. Strap Ravine bisects the Site and was historically dredged for gold. Trenches excavated during the geotechnical investigation encountered tailings extending to depths of 7.5 feet to over 14 feet below ground surface (bgs). The tailings generally consisted of poorly graded sand (SP) with gravel and gravel with sand (GP) and in some locations were observed to overlie what appeared to be undisturbed alluvium.

In a memorandum dated January 3, 2006, the Placer County Department of Environmental Health (PCDEH) requested a limited investigation of the tailings for the presence of metals. Specifically, PCDEH requested testing of tailings samples for arsenic and mercury utilizing CAM 17 heavy metal testing protocols. Subsequent to the memorandum, PCDEH also verbally requested that we add testing for lead.

The investigation was conducted and the results presented in a report dated February 1, 2006. The investigation found:

- Arsenic was not detected at concentrations exceeding the laboratory test method detection limit of 1.0 milligram per milligram (mg/kg) in any of the tailings samples.

- Lead was detected in each sample at concentrations ranging from 1.3 mg/kg to 36 mg/kg. These values are significantly less than the California Environmental Protection Agency (CalEPA), California Human Health Screening Level (CHHSL) and the USEPA's California-modified Preliminary Remediation Goal (PRG) for lead in residential soil of 150 milligrams per kilograms

(mg/kg). One anomalous lead detection of 3,200 mg/kg was initially reported for sample SS1-0-0.5; however, reanalysis of the sample by the laboratory yielded a result of 36 mg/kg. Additionally, in order to further assess the area of the Site where the sample that had the anomalous lead detection was collected, we collected additional tailings samples from two locations approximately 10 feet away from SS1 (see SS13 and SS14 on Figure 2) from the surface and from 2.0 to 2.5 feet bgs and had these samples analyzed for lead and mercury. Lead concentrations reported for these samples range from 1.3 to 7.5 mg/kg, and mercury was not detected in any of these samples (Table 2).

- Mercury was detected in six tailings samples and one background soil sample at concentrations ranging from 0.11 to 5.1 mg/kg. These values are significantly less than the CalEPA CHHSL and the USEPA California-modified PRG for mercury in residential soil of 18 mg/kg and 23 mg/kg, respectively. One anomalous mercury detection of 13 mg/kg was initially reported for sample SS9-0-0.5; however, reanalysis of the sample by the laboratory did not detect mercury above the laboratory method detection limit of 0.10 mg/kg. Additionally, in order to further assess the area of the Site where the sample that had the anomalous mercury detection was collected, we collected additional tailings samples from two locations approximately 10 feet away from SS9 (see SS11 and SS12 on Figure 2) from the surface and from 2.0 to 2.5 feet bgs and analyzed these samples for lead and mercury. Lead concentrations reported for these samples range from 2.5 to 19 mg/kg and reported mercury concentrations range from 0.11 to 2.9 mg/kg (Table 2).

Based on the above results, we concluded that all of the reported concentrations of lead (except the one anomalous detection of 3,200 mg/kg) and most of the reported concentrations of mercury appeared to be consistent with naturally occurring levels of these metals when compared to California soil background data published by Bradford, et al. in the Kearney Foundation Special Report: *Background Concentrations of Trace and Major Elements in California Soils* (March 1996). Three of the reported mercury concentrations (13 mg/kg for SS9-0-0.5, 5.1 mg/kg for SS9-2-2.5 and 2.9 mg/kg for SS11-0-0.5) could be considered higher than naturally occurring levels and may be due to past mining activities on the Site. Although potentially due to past mining activities, these mercury concentrations are less than the regulatory guidelines for residential soil. We concluded that based on the results of the investigation additional assessment of heavy metals in tailings and soil at the Site did not appear to be warranted and we did not recommend further testing.

In a second memorandum dated March 1, 2006, PCDEH requested that deeper testing for metals be conducted to assess the potential for future disturbance of tailings during excavation for foundations, utilities and swimming pools to encounter elevated metals (primarily mercury). We contacted Mr. Dave Buck of PCDEH to discuss the basis for additional testing. Mr. Buck stated that he had discussed the Site and the investigation results with staff from the CalEPA, Department of Toxic Substances Control (DTSC) and that they had raised the concern about levels of metals in the tailings at greater depth than had been previously investigated – particularly mercury. Mr. Buck conceded that he did not know that deeper testing of the tailings was an issue until he had this discussion with the DTSC.

SCOPE OF SERVICES

This section summarizes the scope of services of the deeper tailings investigation including exploratory trench excavation, sample collection and laboratory analyses of tailings samples. The proposed sampling locations and depths were provided to Mr. Buck for his review prior to performing the field investigation, and he approved the approach.

Additional Tailings Sample Collection

Five additional exploratory trenches (SS15 through SS19, Figure 2) were excavated at the Site to facilitate observation and sampling of deeper tailings. Trenches were excavated with a backhoe supplied and operated by Ramsey Engineering and Construction of Citrus Heights, California. The backhoe was operated by a 40-hour health and safety trained equipment operator.

Each trench was excavated to approximately 10 feet bgs. Representative tailings samples were collected from depths of 5 and 10 feet bgs in each exploratory trench using a clean trowel to place tailings into a 4-ounce glass jar. Sample jars were labeled with a sample identification, time of collection, the sampler's initials, and the analyses to be performed and were shipped to the analytical laboratory under standard chain-of-custody protocols.

Each trench was logged by our field geologist in accordance with the Unified Soil Classification System (USCS) under the direction of a California Professional Geologist. Trench logs are presented in Appendix A. Upon completion of sampling, the trenches were backfilled with the excavated material.

Quality Assurance/Quality Control (QA/QC) sampling procedures were adhered to during the field activities. These procedures included frequent changes of disposable gloves during the sampling activities and providing chain-of-custody documentation for each sample collected and transferred to the laboratory for analytical testing.

Laboratory Analysis

Ten tailings samples were submitted to Advanced Technology Laboratories of Signal Hill, California, for analysis of arsenic and lead by EPA Method 6010B and mercury by EPA Method 7471A. The samples were analyzed on a 48-hour-turnaround. The results of laboratory analysis are summarized in the next section, and copies of the laboratory reports are presented in Appendix B.

Laboratory QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures will include the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever is more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever is more frequent, with spike the made at ten times the detection limit or at the analyte level.

The laboratory provided a written narrative describing quality control procedures and any discrepancies. We reviewed the laboratory report to confirm data completeness as compared to chain-of-custody and test method assignments, holding times, and acceptable QA/QC procedures to verify that the data is of sufficient quality to satisfy the objectives of the additional investigation.

INVESTIGATION RESULTS

This section describes observations made during the field investigation of tailings and summarizes the results of laboratory analysis.

Field Observations

The tailings observed in the trenches consisted primarily of moist to wet, yellowish brown sand and gravel to the maximum depth explored of 10 feet (Appendix A). In SS16 (Figure 2) sandy tailings were observed overlying hard, moist, light gray to reddish brown clay, and in SS19 a wet, dusky brown silty clay with organic matter to a depth of 3.5 feet bgs was observed overlying gravelly coarse sand. In several of the trenches the tailings were wet due to recent rainfall and proximity of some of the trenches to Secret Ravine, which was flowing during the investigation. No indications of impacts due to past mining or other activities were observed.

Laboratory Analysis Results

Table 1 presents the results of laboratory analysis of deeper tailings samples and previous analytical results. Arsenic was not detected at concentrations exceeding the method detection limit of 1.0 mg/kg in any of the deeper samples. Lead was detected in each of the deeper samples, with reported concentrations ranging from 1.9 to 9.5 mg/kg. Mercury was detected in samples collected from trenches SS15, SS16 and SS17, with reported concentrations ranging from 0.24 to 0.60 mg/kg. Copies of laboratory reports are included in Appendix B.

CONCLUSIONS

A total of 34 soil and tailings samples have been collected from the Site and analyzed for lead and mercury. Arsenic was analyzed for and not detected in 24 of the samples. The reported concentrations of lead and mercury for the deeper tailings samples collected from the Site are well below the regulatory guidelines for residential soil (CalEPA CHHSLs and USEPA PRGs) and appear to be consistent with naturally-occurring background levels of these metals. The lack of detections of mercury above background levels in 31 of 34 samples collected from the Site, including all ten of the deeper samples, suggests that impacts from past mining activity were minimal. No further environmental investigation of soil and tailings at the Site appears to be warranted.

Thank you for the opportunity to assist you on this project. Please contact us if you have any questions or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Jim Brake, PG
Senior Geologist

PROFESSIONAL GEOLOGIST
JAMES F. BRAKE
NO. 5753
06/30/06
STATE OF CALIFORNIA

Jeremy J. Zorne, PE, GE
Senior Project Engineer

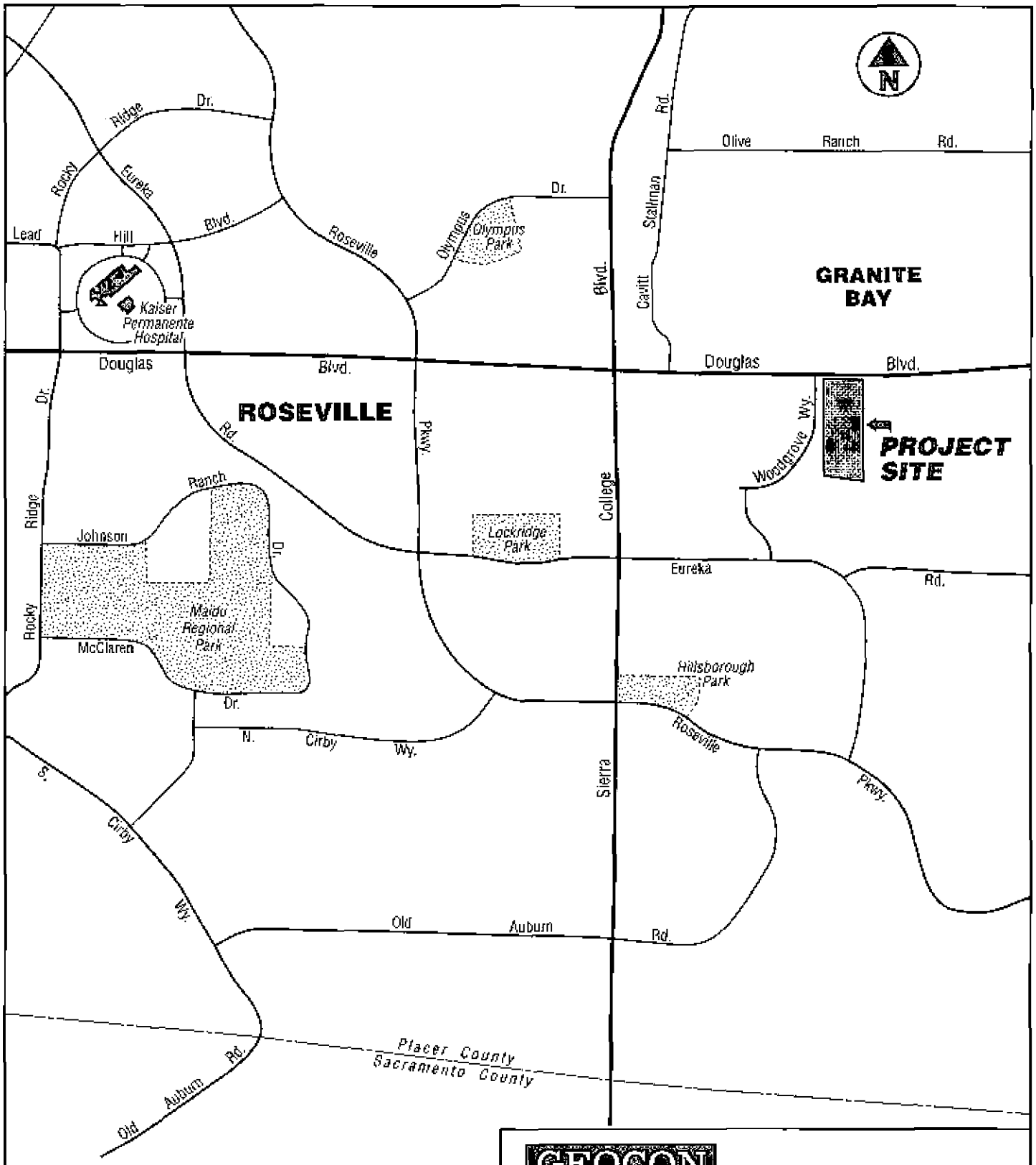
JB:JJZ:KRH:jaj

(5) Addressee

Attachments: Figure 1, Vicinity Map
Figure 2, Site Plan

Table 1, Summary of Soil Analytical Data, Total Arsenic, Lead and Mercury

Appendix A, Trench Logs
Appendix B, Laboratory Report



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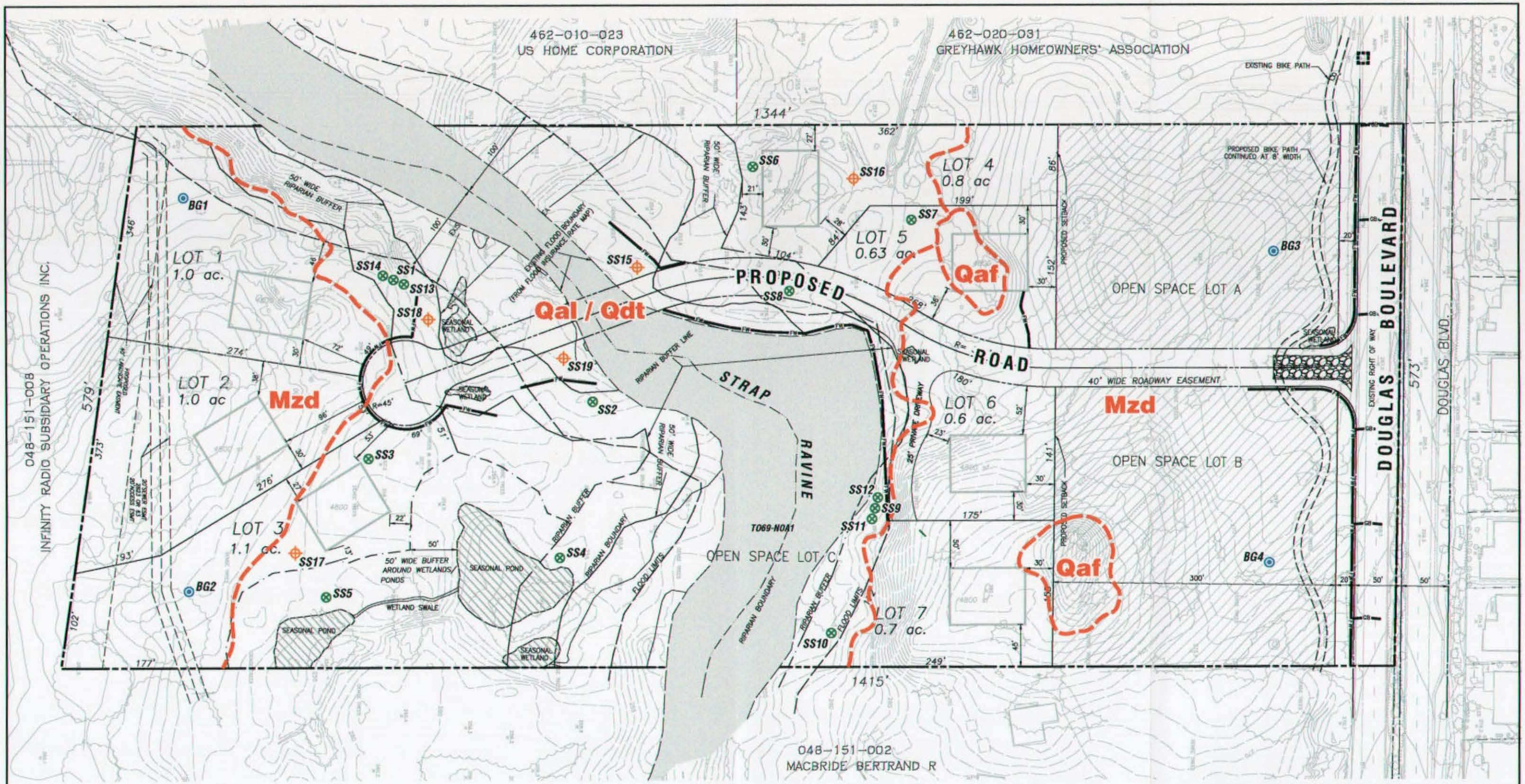
Beaver Creek Subdivision

Granite Bay,
Placer County, California

VICINITY MAP

S9014-06-03	March 2006	Figure 1



LEGEND:

- SS1 — Previous Soil Sample Location (Jan. 2006)
- BG1 — Previous Background Soil Sample Location (Jan. 2006)
- SS19 — Approximate Deeper Trench and Tailings Sampling Location (March 2006)
- Approximate Geologic Contact

- Qaf — Artificial Fill
- Qal — Alluvium
- Qdt — Dredge Tailings
- Mzd — Mesozoic Dioritic Intrusive Rock (Rocklin Pluton)

0 100
Scale in Feet

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Beaver Creek Subdivision

Granite Bay,
Placer County, California

SITE PLAN

S9014-06-03	March 2006	Figure 2

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA - TOTAL ARSENIC, LEAD, AND MERCURY
BEAVER CREEK SUBDIVISION
GRANITE BAY, PLACER COUNTY, CALIFORNIA

SAMPLE ID	DATE COLLECTED	SAMPLE DEPTH (feet)	ARSENIC (mg/kg)	LEAD (mg/kg)	MERCURY (mg/kg)
SS1-0-0.5	1/16/2005	0 - 0.5	<1.0	3,200 / 36 [1]	<0.10
SS1-2-2.5	1/25/2006	2 - 2.5	---	1.8	<0.10
SS2-0-0.5	1/16/2005	0 - 0.5	<1.0	6.9	<0.10
SS3-0-0.5	1/16/2005	0 - 0.5	<1.0	4	<0.10
SS4-0-0.5	1/16/2005	0 - 0.5	<1.0	9.3	<0.10
SS5-0-0.5	1/16/2005	0 - 0.5	<1.0	10	<0.10
SS6-0-0.5	1/16/2005	0 - 0.5	<1.0	7.1	<0.10
SS7-0-0.5	1/16/2005	0 - 0.5	<1.0	8.2	<0.10
SS8-0-0.5	1/16/2005	0 - 0.5	<1.0	1.3	<0.10
SS9-0-0.5	1/16/2005	0 - 0.5	<1.0	10	13 / <0.10 [1]
SS9-2-2.5	1/25/2006	2 - 2.5	---	5.1	5.1
SS10-0-0.5	1/16/2005	0 - 0.5	<1.0	7.2	<0.10
SS11-0-0.5	1/25/2006	0 - 0.5	---	6.2	2.9
SS11-2-2.5	1/25/2006	2 - 2.5	---	6.4	0.11
SS12-0-0.5	1/25/2006	0 - 0.5	---	19	0.13
SS12-2-2.5	1/25/2006	2 - 2.5	---	2.5	0.46
SS13-0-0.5	1/25/2006	0 - 0.5	---	7.2	<0.10
SS13-2-2.5	1/25/2006	2 - 2.5	---	2.1	<0.10
SS14-0-0.5	1/25/2006	0 - 0.5	---	7.5	<0.10
SS14-2-2.5	1/25/2006	2 - 2.5	---	1.3	<0.10
SS15-5	3/23/2006	5-5.5	<1.0	2.1	0.60
SS15-10	3/23/2006	10-10.5	<1.0	3.2	0.60
SS16-5	3/23/2006	5-5.5	<1.0	3.2	0.24
SS16-10	3/23/2006	10-10.5	<2.0	9.5	<0.10
SS17-5	3/23/2006	5-5.5	<1.0	2.5	0.29
SS17-10	3/23/2006	10-10.5	<1.0	4.6	<0.10
SS18-5	3/23/2006	5-5.5	<1.0	4.7	<0.10
SS18-10	3/23/2006	10-10.5	<1.0	3.3	<0.10
SS19-5	3/23/2006	5-5.5	<1.0	3.0	<0.10
SS19-10	3/23/2006	10-10.5	<1.0	1.9	<0.10

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA - TOTAL ARSENIC, LEAD, AND MERCURY
BEAVER CREEK SUBDIVISION
GRANITE BAY, PLACER COUNTY, CALIFORNIA

SAMPLE ID	DATE COLLECTED	SAMPLE DEPTH (feet)	ARSENIC (mg/kg)	LEAD (mg/kg)	MERCURY (mg/kg)
		BACKGROUND SAMPLES			
BG1-0-0.5	1/16/2005	0 - 0.5	<1.0	3.0	<0.10
BG2-0-0.5	1/16/2005	0 - 0.5	<1.0	3.1	0.32
BG3-0-0.5	1/16/2005	0 - 0.5	<1.0	15	<0.10
BG4-0-0.5	1/16/2005	0 - 0.5	<1.0	18	<0.10
PRG [2]			0.062	150	23
CHHSL [3]			0.07	150	18
Background Concentration [4]			3.5 (0.6 - 11.0)	23.9 (12.4 - 97.1)	0.26 (0.05 - 0.90)

Notes:

mg/kg = Milligrams per kilogram < = Less than laboratory test method detection limits

EPA = Environmental Protection Agency PRG = Preliminary Remediation Goal

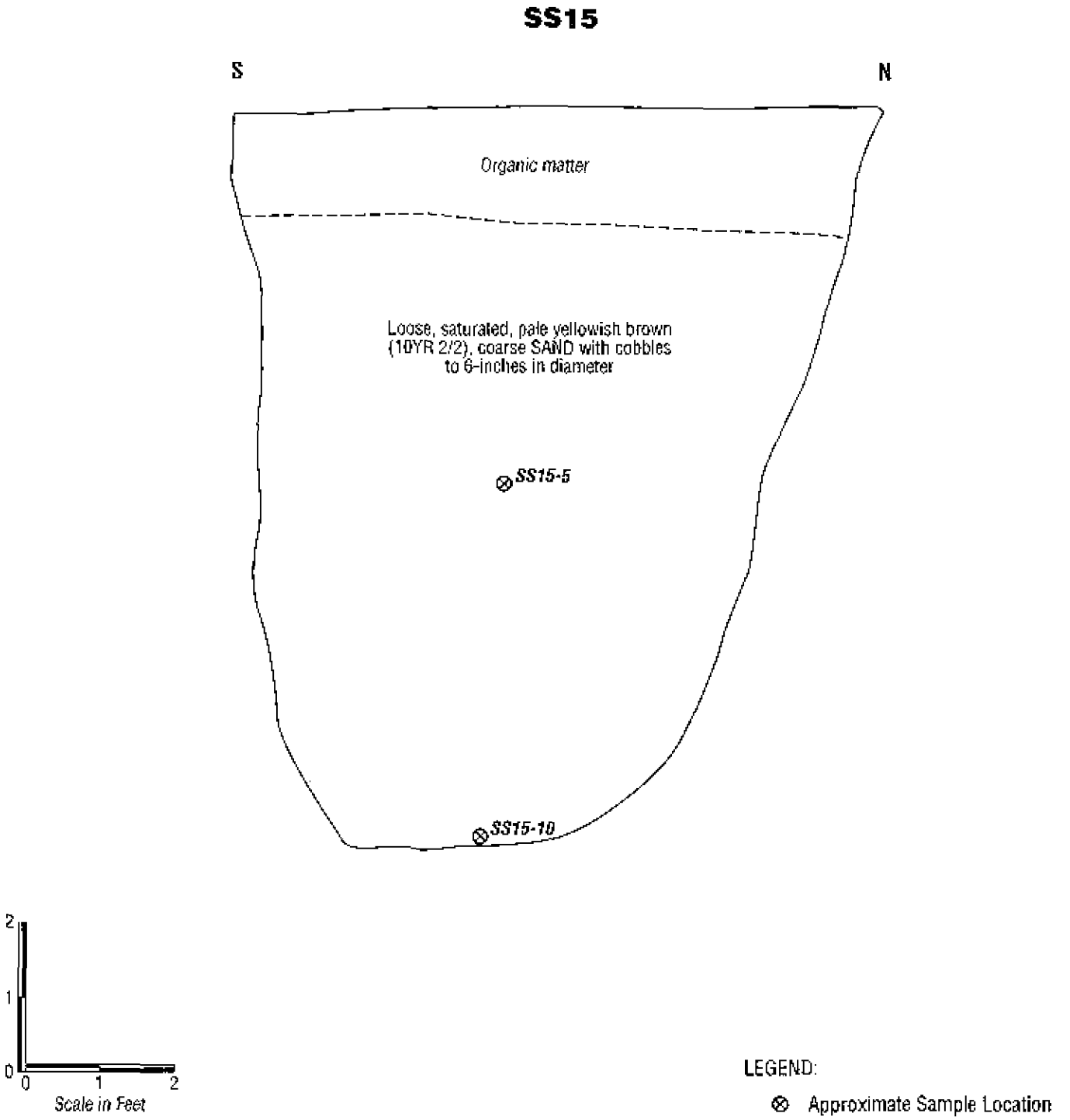
[1] *Reanalysis Test Result*

[2] PRG = USEPA California-Modified Preliminary Remediation Goal for *Residential Soil*, October 2004

[3] CHHSL = California Human Health Screening Levels for Residential Land Use, California Environmental Protection Agency, January 2005

[4] Background Concentration (mean and range) from: *Background Concentrations of Trace and Major Elements in California Soils*, Kearney Foundation Special Report, University of California, March 1996

APPENDIX A



TRENCH LOG SS15

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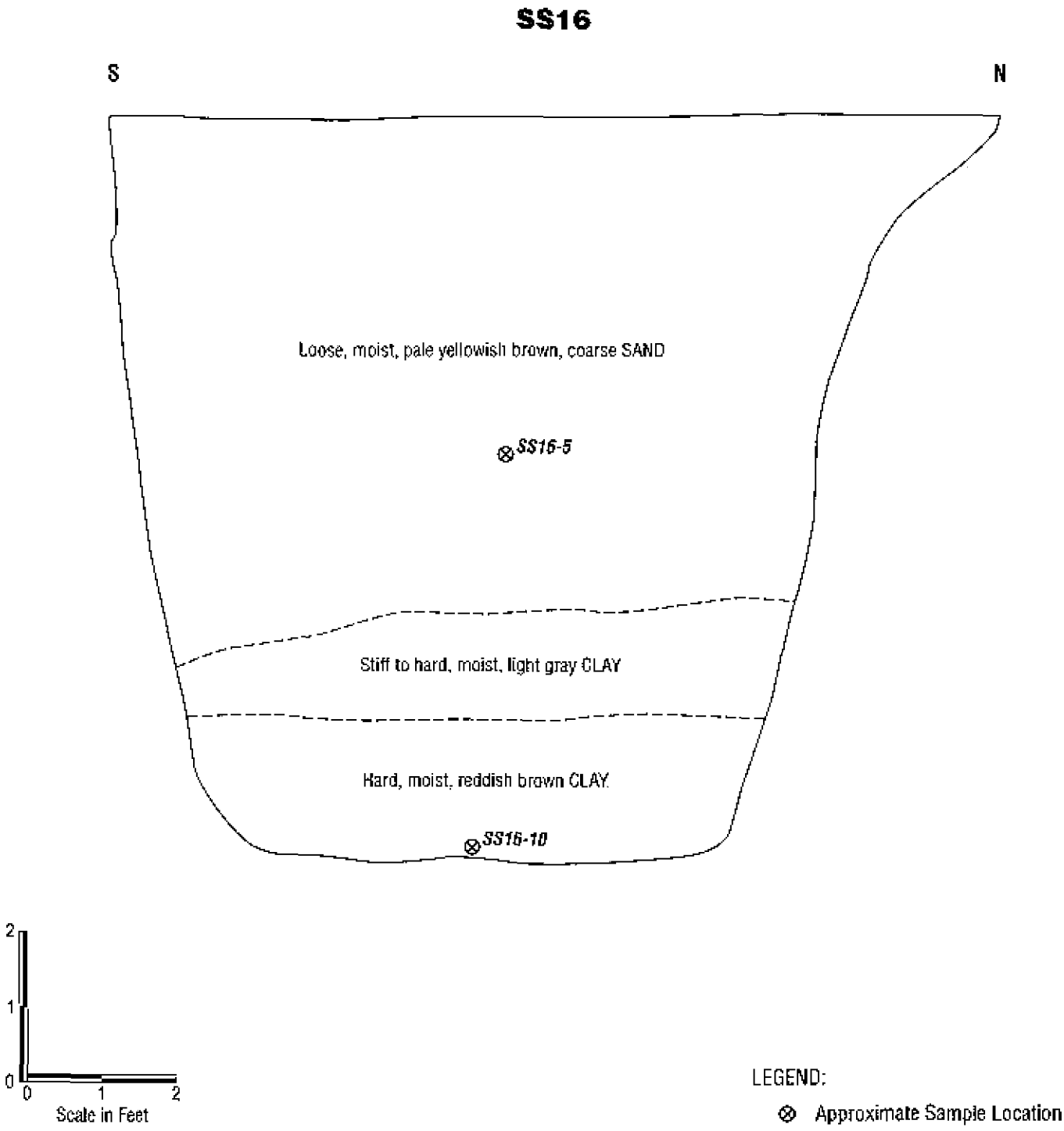
PHONE 916 852-9118 - FAX 916 852-9132

Beaver Creek Subdivision		
Granite Bay, Placer County, California		
S9014-06-03	March 2006	Figure A-1



TRENCH LOG SS16

GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR. • SUITE 800 • RANCHO CORDOVA, CA. 95742
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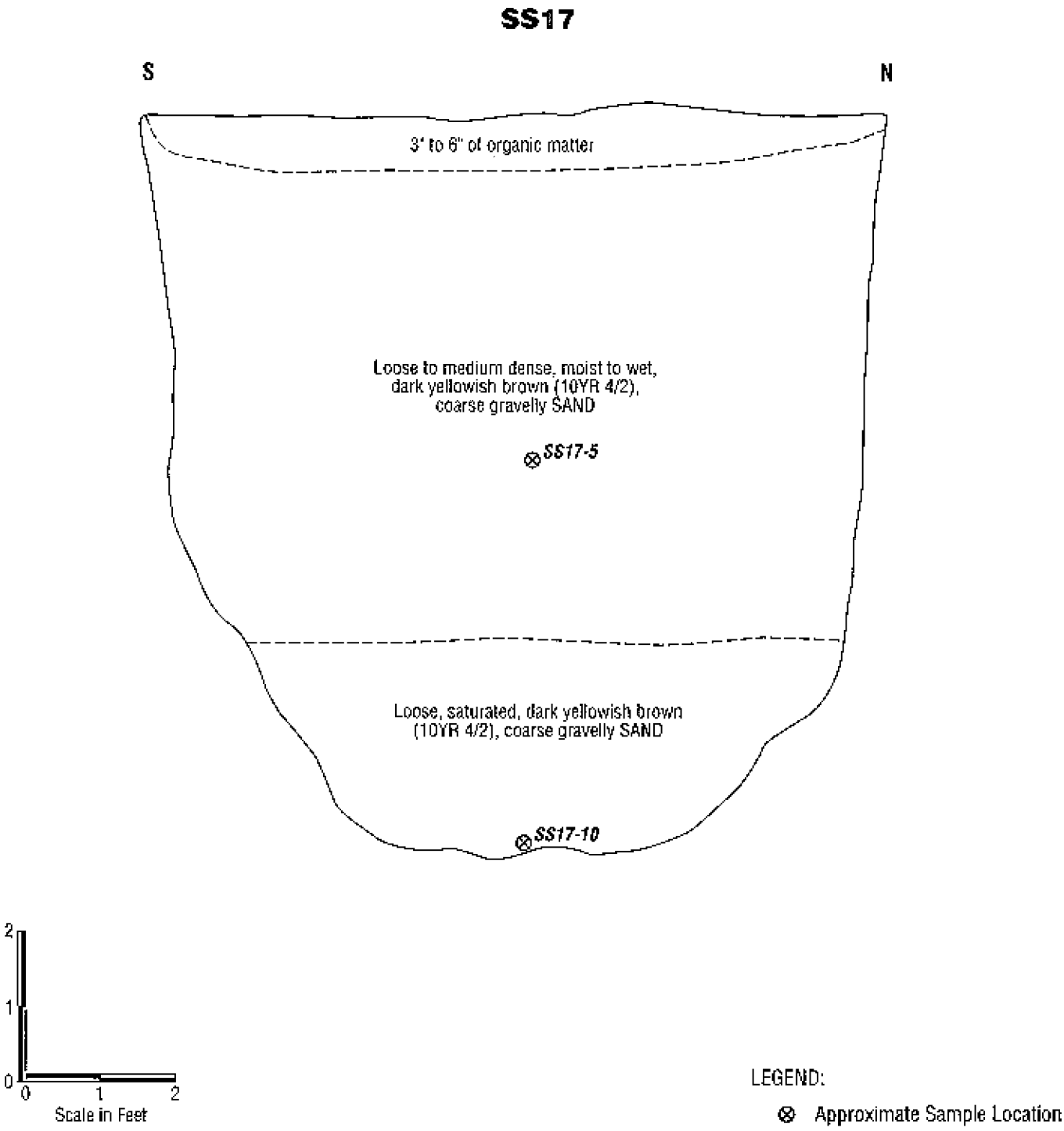
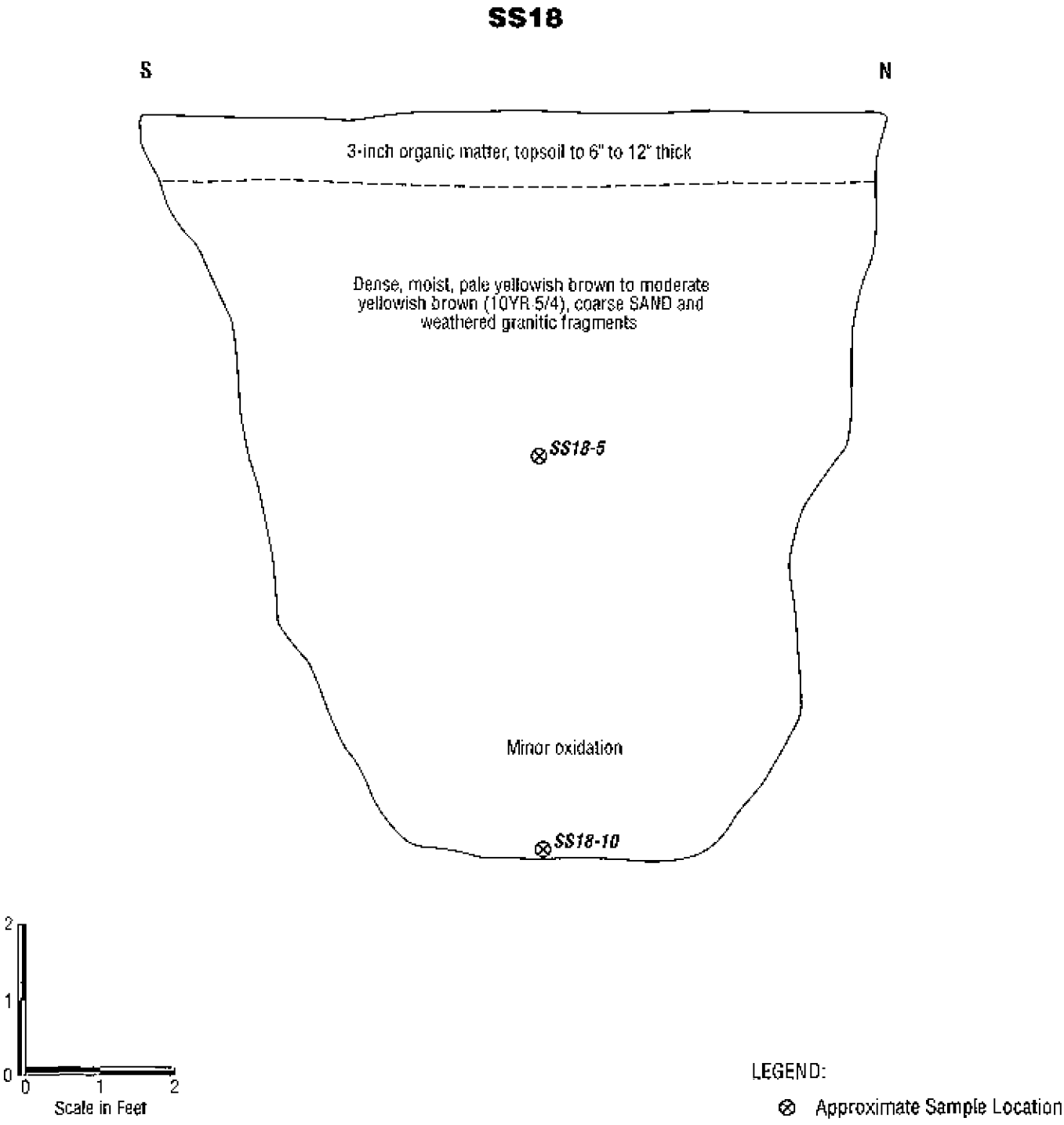
Beaver Creek Subdivision		
Granite Bay, Placer County, California		
S9014-06-03	March 2006	Figure A-2



TRENCH LOG SS17

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 · RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

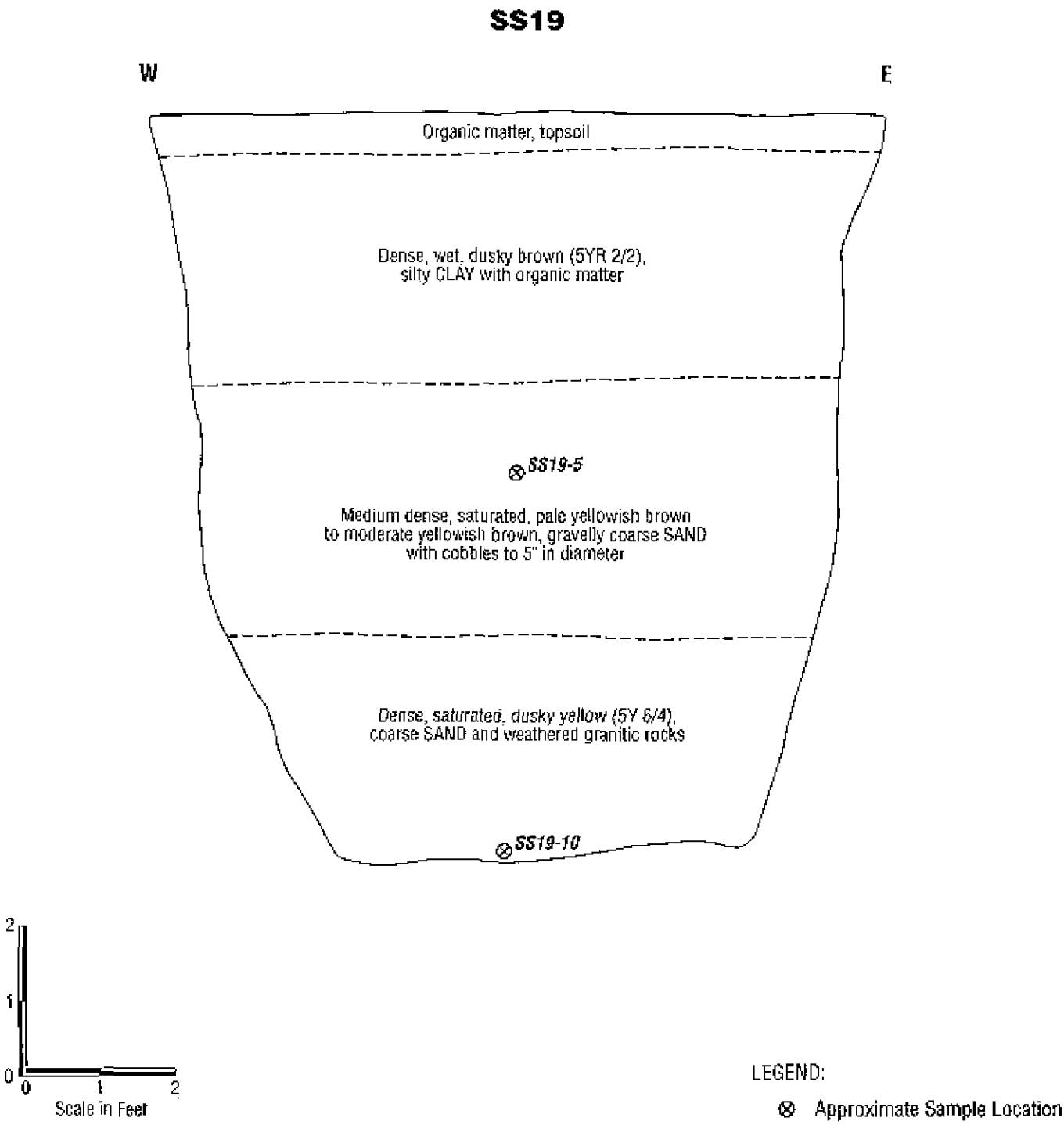
Beaver Creek Subdivision		
Granite Bay, Placer County, California		
S9014-06-03	March 2006	Figure A-3



TRENCH LOG SS18

GEOCON CONSULTANTS, INC.
9160 GOLD VALLEY DR. – SUITE 800 · RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

Beaver Creek Subdivision		
Granite Bay, Placer County, California		
S9014-06-03	March 2006	Figure A-4



TRENCH LOG SS19

GEOCON CONSULTANTS, INC.
9160 GOLD VALLEY DR. – SUITE 100 – RANCHO CORDOVA, CA. 95742
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Beaver Creek Subdivision		
Granite Bay, Placer County, California		
S9014-06-03	March 2006	Figure A-5

APPENDIX B

March 31, 2006

Jim Brake
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 083186

RE: BEAVER CREEK SUBDIVISION, S9014-06-0

Attention: Jim Brake

Enclosed are the results for sample(s) received on March 24, 2006 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *31-Mar-06*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

Lab ID: 083186-001 **Collection Date:** 3/23/2006 9:16:00 AM
Client Sample ID: SS16-5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F	QC Batch: 27288			PrepDate:	3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:04:07 PM
Lead	3.2	1.0		mg/Kg	1	3/27/2006 6:04:07 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AAS_060327B	QC Batch: 27300			PrepDate:	3/27/2006	Analyst: **NS**
Mercury	0.24	0.10		mg/Kg	1	3/27/2006

Lab ID: 083186-002 **Collection Date:** 3/23/2006 9:28:00 AM
Client Sample ID: SS16-10 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F	QC Batch: 27288			PrepDate:	3/24/2006	Analyst: **RQ**
Arsenic	ND	2.0		mg/Kg	2	3/27/2006 6:37:37 PM
Lead	9.5	2.0		mg/Kg	2	3/27/2006 6:37:37 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AAS_060327B	QC Batch: 27300			PrepDate:	3/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	3/27/2006

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

Advanced Technology Laboratories

Date: *31-Mar-06*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

Lab ID: *083186-003* **Collection Date:** 3/23/2006 10:28:00 AM
Client Sample ID: SS15-5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F	QC Batch: 27288			PrepDate:		3/24/2006 Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:17:31 PM
Lead	2.1	1.0		mg/Kg	1	3/27/2006 6:17:31 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B	QC Batch: 27300			PrepDate:		3/27/2006 Analyst: **NS**
Mercury	0.60	0.10		mg/Kg	1	3/27/2006

Lab ID: 083186-004 **Collection Date:** 3/23/2006 10:38:00 AM
Client Sample ID: SS15-10 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F	QC Batch: 27288			PrepDate:		3/24/2006 Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:24:04 PM
Lead	3.2	1.0		mg/Kg	1	3/27/2006 6:24:04 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B	QC Batch: 27300			PrepDate:		3/27/2006 Analyst: **NS**
Mercury	0.60	0.10		mg/Kg	1	3/27/2006

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

Date: *31-Mar-06*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

Lab ID: 083186-005 **Collection Date:** 3/23/2006 11:44:00 AM
Client Sample ID: SS18-5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F	QC Batch: 27288				PrepDate: 3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:30:44 PM
Lead	4.7	1.0		mg/Kg	1	3/27/2006 6:30:44 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B	QC Batch: 27300				PrepDate: 3/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	3/27/2006

Lab ID: 083186-006 **Collection Date:** 3/23/2006 11:56:00 AM
Client Sample ID: SS18-10 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F	QC Batch: 27288				PrepDate: 3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:44:15 PM
Lead	3.3	1.0		mg/Kg	1	3/27/2006 6:44:15 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B	QC Batch: 27300				PrepDate: 3/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	3/27/2006

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

Date: *31-Mar-06*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

Lab ID: 083186-007 **Collection Date:** 3/23/2006 12:20:00 PM
Client Sample ID: SS19-5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F QC Batch: 27288				PrepDate:	3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:51:07 PM
Lead	3.0	1.0		mg/Kg	1	3/27/2006 6:51:07 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B QC Batch: 27300				PrepDate:	3/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	3/27/2006

Lab ID: 083186-008 **Collection Date:** 3/23/2006 12:32:00 PM
Client Sample ID: SS19-10 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F QC Batch: 27288				PrepDate:	3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 6:57:40 PM
Lead	1.9	1.0		mg/Kg	1	3/27/2006 6:57:40 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B QC Batch: 27300				PrepDate:	3/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	3/27/2006

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

Date: *31-Mar-06*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

Lab ID: 083186-009 **Collection Date:** 3/23/2006 1:37:00 PM
Client Sample ID: SS17-5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F QC Batch: 27288					PrepDate: 3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 7:18:18 PM
Lead	2.5	1.0		mg/Kg	1	3/27/2006 7:18:18 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B QC Batch: 27300					PrepDate: 3/27/2006	Analyst: **NS**
Mercury	0.29	0.10		mg/Kg	1	3/27/2006

Lab ID: 083186-010 **Collection Date:** 3/23/2006 1:50:00 PM
Client Sample ID: SS17-10 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP6_060327F QC Batch: 27288					PrepDate: 3/24/2006	Analyst: **RQ**
Arsenic	ND	1.0		mg/Kg	1	3/27/2006 7:24:51 PM
Lead	4.6	1.0		mg/Kg	1	3/27/2006 7:24:51 PM
MERCURY BY COLD VAPOR TECHNIQUE						
EPA 7471				**EPA 7471A**		
RunID: AA5_060327B QC Batch: 27300					PrepDate: 3/27/2006	Analyst: **NS**
Mercury	ND	0.10		mg/Kg	1	3/27/2006

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: 31-Mar-06

CLIENT: Geocon Consultants, Inc.
Work Order: 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-27288 | SampType: MBLK | TestCode: 6010_S | Units: mg/Kg | Prep Date: 3/24/2006 | RunNo: 61201
Client ID: PBS | Batch ID: 27288 | TestNo: EPA 6010B EPA 3050B | Analysis Date: 3/27/2006 | SeqNo: 906115

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									
Lead	ND	1.0									

Sample ID: LCS-27288 | SampType: LCS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 3/24/2006 | RunNo: 61201
Client ID: LCSS | Batch ID: 27288 | TestNo: EPA 6010B EPA 3050B | Analysis Date: 3/27/2006 | SeqNo: 906116

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	47	1.0	50.00	0	93.2	80	120				
Lead	47	1.0	50.00	0	94.1	80	120				

Sample ID: 083186-010AMS | SampType: MS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 3/24/2006 | RunNo: 61201
Client ID: SS17-10 | Batch ID: 27288 | TestNo: EPA 6010B EPA 3050B | Analysis Date: 3/27/2006 | SeqNo: 906222

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	6400	10	1000	6106	34.3	27	198				
Antimony	110	2.0	125.0	0	84.3	25	108				
Arsenic	110	1.0	125.0	0	88.2	46	118				
Barium	130	1.0	125.0	25.70	84.7	32	131				
Beryllium	110	1.0	125.0	0	90.5	59	104				
Boron	430	10	500.0	0	85.1	64	116				
Cadmium	110	1.0	125.0	0	89.1	63	105				
Calcium	2000	10	1000	1212	83.8	17	164				
Chromium	120	1.0	125.0	11.64	89.3	49	116				
Cobalt	110	1.0	125.0	3.123	88.9	56	104				
Copper	130	2.0	125.0	6.597	96.0	54	126				
Iron	5300	10	1000	5456	-17.7	31	188				S
Lead	110	1.0	125.0	4.644	87.8	31	122				
Magnesium	1900	10	1000	1140	71.9	29	173				
Manganese	890	10	1000	57.29	83.0	64	121				

Qualifiers:
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interferenc
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

CLIENT: Geocon Consultants, Inc.
Work Order: 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 083186-010AMS | SampType: MS | TestCode: 6010_S | Units: mg/Kg | Prep Date: 3/24/2006 | RunNo: 61201
Client ID: SS17-10 | Batch ID: 27288 | TestNo: EPA 6010B | EPA 3050B | Analysis Date: 3/27/2006 | SeqNo: 906222

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	110	1.0	125.0	0	91.6	61	104				
Nickel	120	1.0	125.0	5.618	89.0	50	112				
Selenium	110	1.0	125.0	0	88.5	53	109				
Silicon	500	20	500.0	274.3	44.3	17	135				
Silver	120	1.0	125.0	0	93.7	41	121				
Thallium	110	1.0	125.0	0	86.7	54	100				
Vanadium	130	1.0	125.0	16.06	91.0	59	109				
Zinc	120	1.0	125.0	10.98	88.9	27	131				

Sample ID: 083186-010AMSD | SampType: MSD | TestCode: 6010_S | Units: mg/Kg | Prep Date: 3/24/2006 | RunNo: 61201
Client ID: SS17-10 | Batch ID: 27288 | TestNo: EPA 6010B | EPA 3050B | Analysis Date: 3/27/2006 | SeqNo: 906223

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	7400	10	1000	6106	130	27	198	6449	13.9	20	
Antimony	110	2.0	125.0	0	90.7	25	108	105.3	7.36	20	
Arsenic	120	1.0	125.0	0	94.6	46	118	110.3	7.17	20	
Barium	140	1.0	125.0	25.70	95.2	32	131	131.6	9.56	20	
Beryllium	120	1.0	125.0	0	97.2	59	104	113.1	7.17	20	
Boron	460	10	500.0	0	91.7	64	116	425.4	7.53	20	
Cadmium	120	1.0	125.0	0	95.9	63	105	111.3	7.44	20	
Calcium	2300	10	1000	1212	104	17	164	2050	9.53	20	
Chromium	130	1.0	125.0	11.64	97.7	49	116	123.2	6.19	20	
Cobalt	120	1.0	125.0	3.123	96.1	58	104	114.2	7.59	20	
Copper	140	2.0	125.0	6.597	104	54	126	126.6	7.26	20	
Iron	6200	10	1000	5456	77.9	31	188	5278	16.8	20	
Lead	120	1.0	125.0	4.644	96.1	31	122	114.4	8.70	20	
Magnesium	2100	10	1000	1140	95.4	29	173	1859	11.9	20	
Manganese	960	10	1000	57.29	90.5	64	121	887.2	8.12	20	
Molybdenum	120	1.0	125.0	0	98.4	61	104	114.5	7.20	20	
Nickel	130	1.0	125.0	5.618	96.6	50	112	116.9	7.73	20	
Selenium	120	1.0	125.0	0	95.0	53	109	110.6	7.07	20	

Qualifiers:
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

CLIENT: Geocon Consultants, Inc.
Work Order: 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 083186-010AMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 3/24/2008	RunNo: 61201
Client ID: SS17-10	Batch ID: 27288	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 3/27/2008	SeqNo: 906223

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silicon	560	20	500.0	274.3	56.2	17	135	495.9	11.3	20	
Silver	120	1.0	125.0	0	99.4	41	121	117.1	5.94	20	
Thallium	120	1.0	125.0	0	93.1	54	100	108.4	7.06	20	
Vanadium	140	1.0	125.0	16.06	100	59	109	128.8	8.73	20	
Zinc	130	1.0	125.0	10.96	94.8	27	131	119.6	7.97	20	

Qualifiers:
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out

CLIENT: *Geocon Consultants, Inc.*
Work Order: 083186
Project: BEAVER CREEK SUBDIVISION, S9014-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: LCS-27300 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 3/27/2006 | RunNo: 61188
Client ID: LCSS | Batch ID: 27300 | TestNo: EPA 7471A | EPA 7471 | Analysis Date: 3/27/2006 | SeqNo: 905847

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.4	0.10	2.080	0	117	80	120				

Sample ID: MB-27300 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 3/27/2006 | RunNo: 61188
Client ID: PBS | Batch ID: 27300 | TestNo: EPA 7471A | EPA 7471 | Analysis Date: 3/27/2006 | SeqNo: 905848

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: 083186-010A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 3/27/2006 | RunNo: 61188
Client ID: SS17-10 | Batch ID: 27300 | TestNo: EPA 7471A | EPA 7471 | Analysis Date: 3/27/2006 | SeqNo: 906452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.1	0.10	0.8300	0.04245	124	52	163				

Sample ID: 083186-010A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 3/27/2006 | RunNo: 61188
Client ID: SS17-10 | Batch ID: 27300 | TestNo: EPA 7471A | EPA 7471 | Analysis Date: 3/27/2006 | SeqNo: 906453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.1	0.10	0.8300	0.04245	122	52	163	1.070	1.16	20	

Qualifiers:
- J: Value above quantitation range
- R: RPD outside accepted recovery limits
- *Calculations are based on raw values.*
- H: Holding times for preparation or analysis exceeded
- S: Spike/Surrogate outside of limits due to matrix interference
- ND: Not Detected at the Reporting Limit
- DO: Surrogate Diluted Out

CHAIN OF CUSTODY RECORD

Page 1 of 1

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: Dpa Date: 03/24/06

Method of Transport: Client ☐ ATL ☐ CA Over/N ☐ FedEx ☐ Other: GSO

Sample Condition Upon Receipt
1. CHILLED Y ☑ N ☐ 3°C
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☑
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☐ N ☑

Client: Geocon Consultants, Inc.
Attention: Jim Brake
Address: 3160 Gold Valley Drive, Suite 800
City: Rancho Cordova State: CA Zip Code: 95742
Tel: (916) 852-9118
Fax: (916) 852-9132

Project Name: BEAVER CREEK SUBDIVISION
Project #: S9014-06-03
Sampler: (Printed Name) GEMMA REBLANDO (Signature) Gemma A Reblando

Relinquished by: (Signature and Printed Name) Gemma A Reblando GEMMA REBLANDO Date: 3/23/06 Time: 16:00
Received by: (Signature and Printed Name) Date: 03/24/06 Time: 0950
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: GEMMA REBLANDO 3/23/06 (Print Name, Date)
Gemma A Reblando (Signature)

Send Report To: Attn: Same as above
Co: Addr: City: State: Zip:

Bill To: Attn: Co: Addr: City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (SVOA)	8010B (Total Metals)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TTLC 22 / CAM 17 (8010 / 7000)	Arsenic	Lead	Mercury			SOIL	WATER	GROUND WATER	WASTEWATER		TAT	Container(s) #	Type	PRESERVATION	REMARKS
	0324Kv-001	SS16-5	3/23/06	0916										X	X	X			X					C	1	J	G		
	-002	SS16-10		0928																								
	-003	SS15-5		1028																								
	-004	SS15-10		1038																								
	-005	SS18-5		1144																								
	-006	SS18-10		1156																								
	-007	SS19-5		1220																								
	-008	SS19-10		1232																								
	-009	SS17-5		1337																								
	-010	SS17-10		1350																								

• TAT starts 8AM the following day if samples received after 3 PM

TAT: A = Overnight ≤24 hrs; B = Emergency Next Workday; C = Critical 2 Workdays; D = Urgent 3 Workdays; E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$