SUPPLEMENTAL INVESTIGATION REPORT

YERBA BUENA ISLAND DUCT BANK
SAN FRANCISCO COUNTY, CALIFORNIA

PREPARED FOR:
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING
111 GRAND AVENUE
OAKLAND, CALIFORNIA

PREPARED BY:
GEOCON CONSULTANTS, INC.
2356 RESEARCH DRIVE
LIVERMORE, CALIFORNIA

CALTRANS CONTRACT 04A1862
TASK ORDER NO. 68
EA No. 04-0120P1

GEOCON PROJECT NO. E8220-06-68

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REPORT LIMITATIONS

This report has been prepared exclusively for the State of California Department of Transportation (Caltrans) District 4. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

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 be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. 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.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

GEOCON CONSULTANTS, INC

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Project Geologist

PROFESSIONAL GEOLOGIST
CHRISTOPHER G. MERRITT
No. 7156
Exp. 7/07
STATE OF CALIFORNIA

Richard Day, CEG, CHG
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CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING – HAZARDOUS WASTE BRANCH

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EXECUTIVE SUMMARY

This Supplemental Investigation Report was prepared for the San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project in Oakland, California. The supplemental investigation was performed within the limits of the project to construct a temporary transition structure from the existing east span of the Oakland, San Francisco Bay Bridge to Yerba Buena Island. The temporary structure is required to carry traffic from the existing structure while the permanent transition structures are being built. This task order covers data gaps in chemical evaluation of materials that will be excavated to install an electrical duct bank in the area of the transition structures. The project location is depicted on the Vicinity Map, Figure 1.

The existing area is comprised of fill material imported to the site from various sources along with the rubbled remains of a concrete structure demolished and ground-up on site. A previous investigation did not collect samples in the current boring location areas due to access restrictions. The purpose of the services performed was to determine the chemical properties of the material that will be excavated for disposal characterization and safety hazard evaluation.

The following field activities were performed during the sampling efforts:

- Located boring positions utilizing Differential Global Positioning System (DGPS) equipment. The boring locations were selected by Caltrans and the boring coordinates were provided in the TO.
- Collected soil samples using hand augering and slide hammer equipment.
- Transported samples to a California-certified environmental laboratory.

The boreholes were advanced using hand auger equipment. Soil encountered during hand augering was generally gravelly silty sand, or fine silty sand. In the areas of borings DB2 through DB4, the upper 2.5 to 3 feet of material contained concrete debris ranging from sand to cobble size. The boring locations, as selected by Caltrans, are shown on the Site Plan, Figure 2. Boring coordinates are summarized in Table 1.

Laboratory analyses were performed under standard turnaround-times. The soil analytical test results are summarized in Tables 2, 3, and 4. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix A.

The laboratory analyses indicated the following:

- CAM 17 metals were not detected at concentrations exceeding their respective Total Threshold Limit Concentration (TTLC) values. In borings DB1 (0, 0.5, and 1.5 meters below ground surface (bgs)) and DB2 (0, 1 and 1.5 meters bgs), total lead was detected in soil samples ranging from 120 mg/kg to 740 mg/kg, exceeding ten times its Soluble Threshold Limit Concentration (STLC) value.
- WET analysis was conducted on six samples with total lead detected at concentrations greater than ten times its STLC (i.e., greater than 50 mg/kg). Results of the WET analyses ranged from 6.3 milligrams per liter (mg/l) to 41 mg/l.
- TCLP analysis was conducted on six samples with lead STLC results greater than 5.0 mg/l. Results of the TCLP analysis for each of the samples did not detect lead above the laboratory reporting limit of 1.2 mg/l.
- TPHg was not detected above the laboratory reporting limit of 1.0 mg/kg in the soil samples.
- TPHd was reported at concentrations ranging from 1.1 mg/kg to 640 mg/kg.
- TPHmo was reported at concentrations ranging from 1.2 mg/kg to 2,400 mg/kg.

Conclusions

Based on the lead results, soil in the vicinity of borings DB3 and DB4 will not be classified as hazardous with respect to lead content and can be reused or disposed as such. The soluble (WET) lead results for samples collected from borings DB1 and DB2 indicate that the upper 1.5 meters of soil in this area will be classified as a hazardous waste because the soluble (WET) lead results exceed the STLC value of 5 mg/l.

Based on the TPHd and TPHmo results, excavated soil from the upper 0.5 meters near boring DB4 may require offsite disposal at a Class II landfill.

The excavation contractor should implement appropriate health and safety measures as required by relevant regulations for construction activities scheduled to occur within the project boundaries.

YERBA BUENA ISLAND DUCT BANK SUPPLEMENTAL INVESTIGATION

1.0 INTRODUCTION

This Supplemental Investigation Report was prepared for the San Francisco-Oakland Bay Bridge (SFOBB) East Span Replacement Project in Oakland, California. This report documents the field observations, investigation sampling methods, and laboratory analytical data for a supplemental investigation of areas within the SFOBB East Span Replacement Project limits.

1.1 Site Location

This supplemental investigation was performed within the limits of the project to construct a temporary transition structure from the existing east span of the Oakland, San Francisco Bay Bridge to Yerba Buena Island. The temporary structure is required to carry traffic from the existing structure while the permanent transition structures are being built. This task order covers data gaps in chemical evaluation of materials that will be excavated to install an electrical duct bank in the area of the transition structures. The project location is depicted on the Vicinity Map, Figure 1.

1.2 Background

The existing area is comprised of fill material imported to the site from various sources along with the rubbled remains of a concrete structure demolished and ground-up on site. A previous investigation did not collect samples in the current boring location areas due to access restrictions.

1.3 Purpose

The purpose of the services performed was to determine the chemical properties of the material that will be excavated for disposal characterization and safety hazard evaluation.

2.0 SCOPE OF SERVICES

The following scope of services was performed:

2.1 Pre-Field Activities

- Reviewed the Health and Safety Plan, dated February 5, 2005, that was prepared for prior activities at site to provide guidelines on the use of personal protective equipment (PPE) and the health and safety procedures to be implemented during the proposed sampling activities.
- Marked boring locations in white paint and called Underground Service Alert (USA) 48 hours prior to the start of field activity.
- Retained Advanced Technology Laboratories, a Caltrans-approved, California-licensed laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to provide laboratory analyses.

2.2 Field Activities

Mr. Chris Merritt and Mr. David Watts, under the responsible charge of Mr. Richard Day, performed the field investigation on December 7, 2006. Messrs. Day and Merritt are Professional Geologists in the State of California. The following field activities were performed during the sampling efforts:

- Located boring positions utilizing Differential Global Positioning System (DGPS) equipment. The boring locations were selected by Caltrans and the boring coordinates were provided in the TO.
- Collected soil samples using hand augering and slide hammer equipment.
- Transported samples to a California-certified environmental laboratory.

3.0 INVESTIGATIVE METHODS

3.1 Sampling Procedures

The boreholes were advanced using hand auger equipment. Field personnel collected soil samples using 2-inch by 6-inch stainless steel liners driven with a slide hammer sampler. After collection, sample liners selected for laboratory analysis had their ends covered with Teflon tape and secured with plastic end caps, were labeled, and placed in a cooler with ice. The boring locations, as selected by Caltrans, are shown on the Site Plan, Figure 2. Boring coordinates are summarized in Table 1.

Soil encountered during hand augering was generally gravelly silty sand, or fine silty sand. In the areas of borings DB2 through DB4, the upper 2.5 to 3 feet of material contained concrete debris ranging from sand to cobble size.

3.2 Laboratory Analyses

Laboratory analyses were performed under standard turnaround-time. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix A. The requested laboratory analyses were selected by Caltrans based on contaminant detections in previous investigations. The laboratory soil testing performed is summarized below:

- California Assessment Manual (CAM-17) Total Metals following EPA Method 6010B;
- Total Petroleum Hydrocarbons as gasoline (TPHg), as diesel (TPHd), and as motor oil (TPHmo) following Modified EPA Test Method 8015B;
- Soluble lead for select soil samples using the Waste Extraction Test (WET) method; and
- Soluble lead for select soil samples using the Toxicity Characteristic Leaching Procedure (TCLP) method.

3.3 Laboratory QA/QC

QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

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

4.0 INVESTIGATIVE RESULTS

Laboratory analyses were performed under standard turnaround-times. The soil analytical test results are summarized in Tables 2, 3, and 4. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix A.

The laboratory analyses indicated the following:

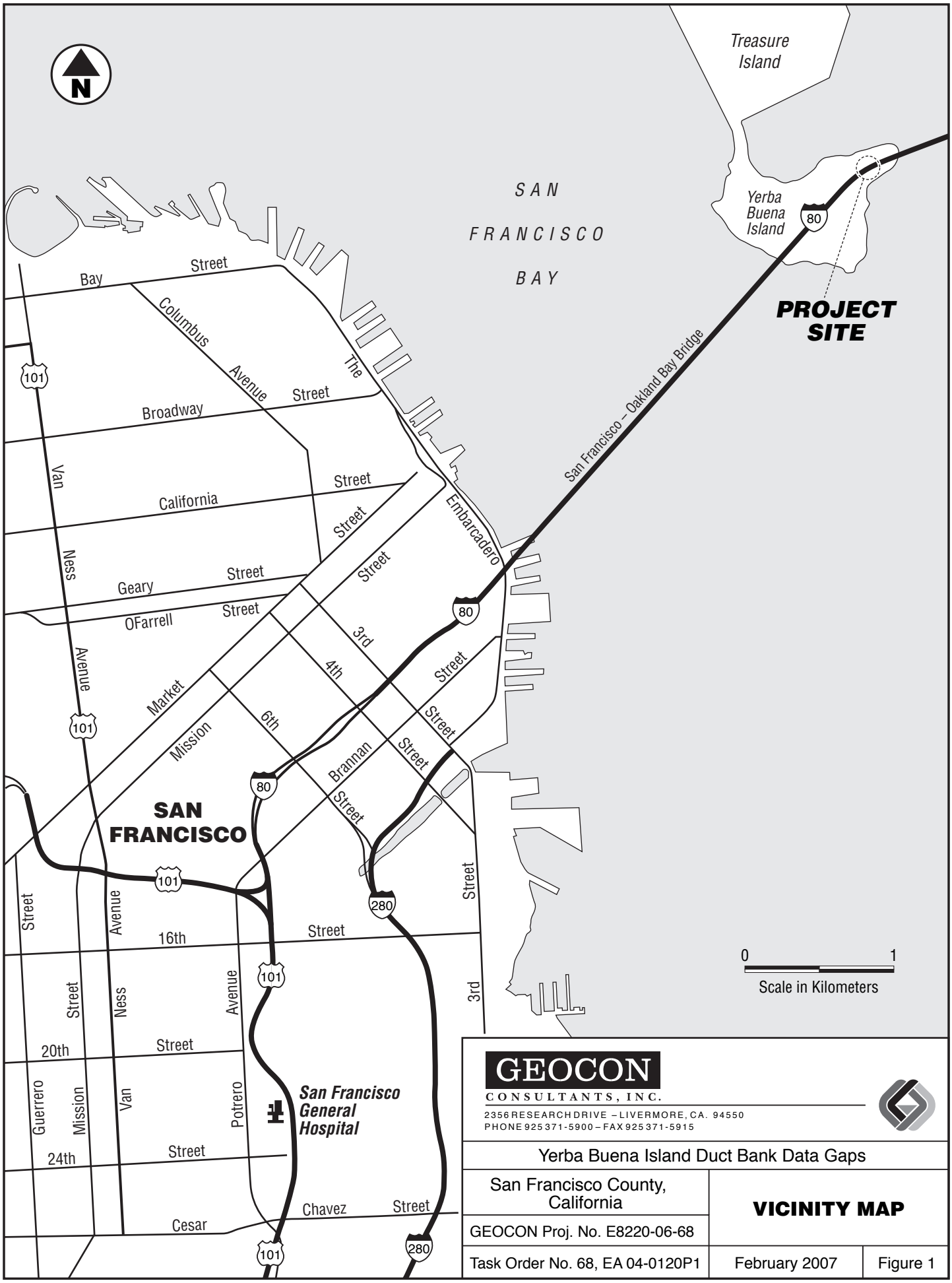
- CAM 17 metals were not detected at concentrations exceeding their respective Total Threshold Limit Concentration (TTLC) values. In borings DB1 (0, 0.5, and 1.5 meters below ground surface (bgs)) and DB2 (0, 1 and 1.5 meters bgs), total lead was detected in soil samples ranging from 120 mg/kg to 740 mg/kg, exceeding ten times its Soluble Threshold Limit Concentration (STLC) value.
- WET analysis was conducted on six samples with total lead detected at concentrations greater than ten times its STLC (i.e., greater than 50 mg/kg). Results of the WET analyses ranged from 6.3 milligrams per liter (mg/l) to 41 mg/l.
- TCLP analysis was conducted on six samples with lead STLC results greater than 5.0 mg/l. Results of the TCLP analysis for each of the samples did not detect lead above the laboratory reporting limit of 1.2 mg/l.
- TPHg was not detected above the laboratory reporting limit of 1.0 mg/kg in the soil samples.
- TPHd was reported at concentrations ranging from 1.1 mg/kg to 640 mg/kg.
- TPHmo was reported at concentrations ranging from 1.2 mg/kg to 2,400 mg/kg.

5.0 CONCLUSIONS

Based on the lead results, soil in the vicinity of borings DB3 and DB4 will not be classified as hazardous with respect to lead content and can be reused or disposed as such. The soluble (WET) lead results for samples collected from borings DB1 and DB2 indicate that the upper 1.5 meters of soil in this area will be classified as a hazardous waste because the soluble (WET) lead results exceed the STLC value of 5 mg/l.

Based on the TPHd and TPHmo results, excavated soil from the upper 0.5 meters near boring DB4 may require offsite disposal at a Class II landfill.

The excavation contractor should implement appropriate health and safety measures as required by relevant regulations for construction activities scheduled to occur within the project boundaries.



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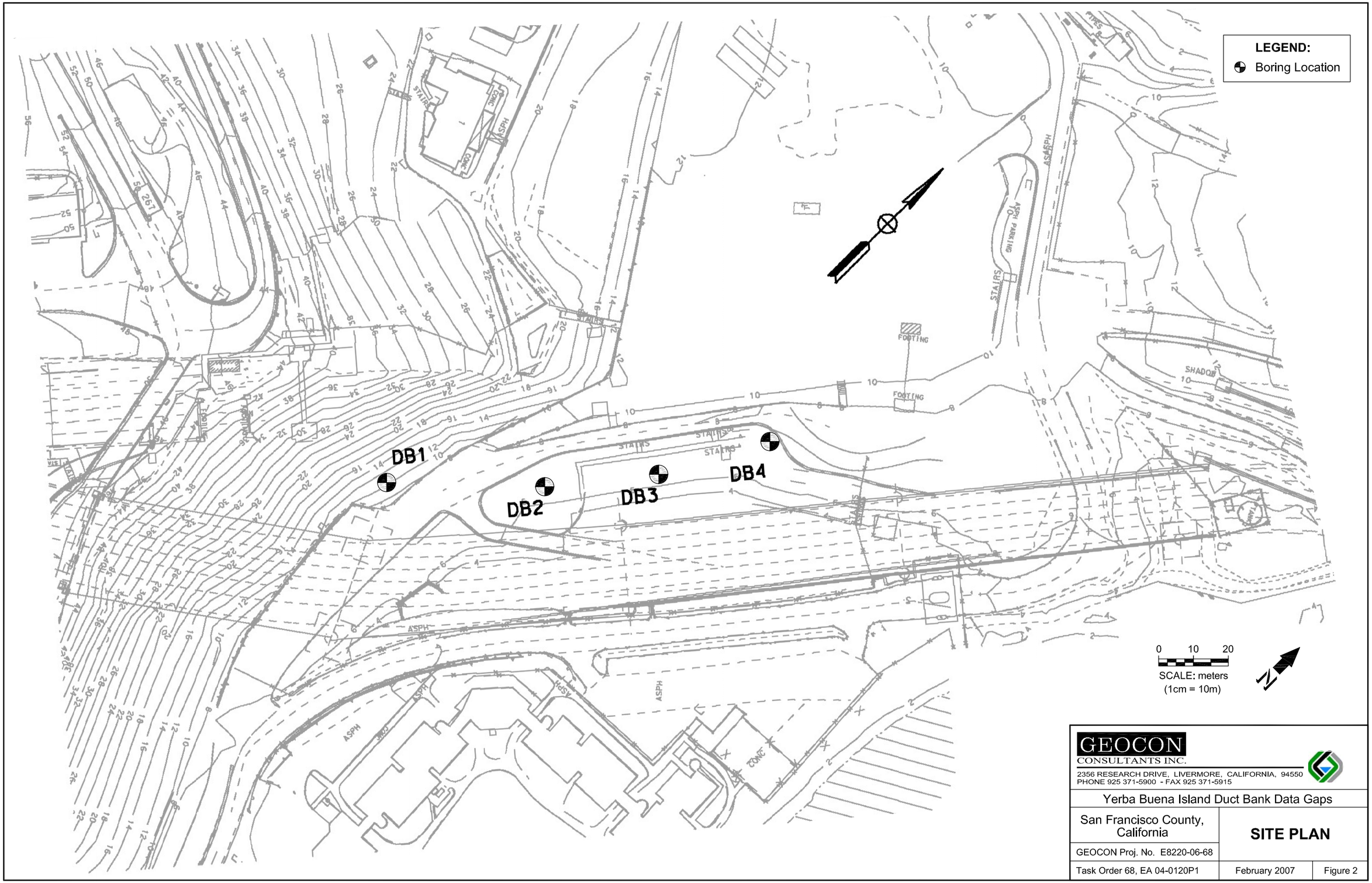
Yerba Buena Island Duct Bank Data Gaps

San Francisco County, California	**VICINITY MAP**	
GEOCON Proj. No. E8220-06-68		
Task Order No. 68, EA 04-0120P1	February 2007	Figure 1



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Yerba Buena Island Duct Bank Data Gaps

San Francisco County, California

SITE PLAN

GEOCON Proj. No. E8220-06-68

Task Order 68, EA 04-0120P1 | February 2007 | Figure 2

SITE0207

TABLE 1
Boring Coordinates
YBI Duct Bank

Boring	Northing	Easting
DB1	647,216.3	1,835,987.1
DB2	647,247.5	1,836,020.0
DB3	647,273.1	1,836,040.6
DB4	647,302.3	1,836,056.5

Northing and Easting in meters, NAD 83 (Zone 3)

TABLE 2
Summary of Total Metal Results
YBI Duct Bank

Sample ID	Sample Depth (m)	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
DB1-0	0	0	<2.0	<1.0	72	<1.0	<1.0	32	6.4	18	650	<1.0	33	<1.0	<1.0	<1.0	23	74	<0.10
DB1-0.5	0.5	1.6	<2.0	<1.0	53	<1.0	<1.0	32	6.1	17	290	<1.0	31	<1.0	<1.0	<1.0	22	63	<0.10
DB1-1.0	1	3.3	<2.0	<1.0	59	<1.0	<1.0	33	7.8	8.8	3.0	<1.0	36	<1.0	<1.0	<1.0	25	33	<0.10
DB1-1.5	1.5	4.9	<2.0	<1.0	53	<1.0	<1.0	29	5.7	19	740	<1.0	30	<1.0	<1.0	<1.0	20	83	<0.10
DB2-0	0	0	<2.0	2.9	98	<1.0	<1.0	60	11	26	110	<1.0	66	<1.0	<1.0	<1.0	30	60	<0.10
DB2-0.5	0.5	1.6	<2.0	3.3	96	<1.0	<1.0	44	14	36	25	<1.0	58	<1.0	<1.0	<1.0	34	59	<0.10
DB2-1.0	1	3.3	<2.0	13	80	<1.0	<1.0	31	6.3	22	620	<1.0	30	<1.0	<1.0	<1.0	25	62	<0.10
DB2-1.5	1.5	4.9	<2.0	6.1	58	<1.0	<1.0	34	7.1	12	120	<1.0	34	<1.0	<1.0	<1.0	25	37	<0.10
DB2-2.0	2	6.6	<2.0	1.5	56	<1.0	<1.0	32	6.8	9.6	16	<1.0	35	<1.0	<1.0	<1.0	23	26	<0.10
DB2-2.5	2.5	8.2	<2.0	<1.0	59	<1.0	<1.0	35	6.9	9.5	9.3	<1.0	36	<1.0	<1.0	<1.0	24	26	<0.10
DB3-0	0	0	<2.0	<1.0	56	<1.0	<1.0	51	9.4	11	6.9	<1.0	47	<1.0	<1.0	<1.0	37	28	<0.10
DB3-0.5	0.5	1.6	<2.0	1.8	99	<1.0	<1.0	39	9.2	23	14	<1.0	38	<1.0	<1.0	<1.0	31	42	0.12
DB3-1.0	1	3.3	<2.0	<1.0	48	<1.0	<1.0	50	8.3	9.7	3.0	<1.0	40	<1.0	<1.0	<1.0	36	21	<0.10
DB3-1.5	1.5	4.9	<2.0	<1.0	51	<1.0	<1.0	53	8.9	10	2.7	<1.0	39	<1.0	<1.0	<1.0	40	22	<0.10
DB3-2.0	2	6.6	<2.0	<1.0	69	<1.0	<1.0	44	7.7	10	23	<1.0	30	<1.0	<1.0	<1.0	32	31	<0.10
DB3-2.5	2.5	8.2	<2.0	1.4	78	<1.0	<1.0	51	9.3	15	11	<1.0	35	<1.0	<1.0	<1.0	40	32	<0.10

TABLE 2
Summary of Total Metal Results
YBI Duct Bank

Sample ID	Sample Depth (m)	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
DB4-0	0	0	<2.0	<1.0	86	<1.0	<1.0	23	6.1	13	16	<1.0	26	<1.0	<1.0	<1.0	34	34	<0.10
DB4-0.5	0.5	1.6	<2.0	2.0	96	<1.0	<1.0	24	5.8	22	9.0	<1.0	26	<1.0	<1.0	<1.0	29	35	<0.10
DB4-1.0	1	3.3	<2.0	1.4	73	<1.0	<1.0	36	9.2	9.3	3.7	<1.0	35	<1.0	<1.0	<1.0	26	22	<0.10
DB4-1.5	1.5	4.9	<2.0	1.1	57	<1.0	<1.0	34	7.7	8.9	3.6	<1.0	36	<1.0	<1.0	<1.0	25	23	<0.10
DB4-2.0	2	6.6	<2.0	1.3	72	<1.0	<1.0	32	6.8	7.4	6.9	<1.0	30	<1.0	<1.0	<1.0	24	24	<0.10

Notes:

Results are shown in milligrams per kilogram

< = Not detected above the laboratory reporting limit

TABLE 3
Summary of Lead Results
YBI Duct Bank

Sample I.D.	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
DB1-0	0	0	650	23	<1.2
DB1-0.5	0.5	1.6	290	20	<1.2
DB1-1.0	1	3.3	3.0	---	---
DB1-1.5	1.5	4.9	740	29	<1.2
DB2-0	0	0	110	6.3	<1.2
DB2-0.5	0.5	1.6	25	---	---
DB2-1.0	1	3.3	620	41	<1.2
DB2-1.5	1.5	4.9	120	12	<1.2
DB2-2.0	2	6.6	16	---	---
DB2-2.5	2.5	8.2	9.3	---	---
DB3-0	0	0	6.9	---	---
DB3-0.5	0.5	1.6	14	---	---
DB3-1.0	1	3.3	3.0	---	---
DB3-1.5	1.5	4.9	2.7	---	---
DB3-2.0	2	6.6	23	---	---
DB3-2.5	2.5	8.2	11	---	---
DB4-0	0	0	16	---	---
DB4-0.5	0.5	1.6	9.0	---	---
DB4-1.0	1	3.3	3.7	---	---
DB4-1.5	1.5	4.9	3.6	---	---
DB4-2.0	2	6.6	6.9	---	---

Notes:

WET = Waste Extraction Test using citric acid as the extraction fluid
TCLP = Toxicity Characteristic Leaching Procedure
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
< = Analyte was not detected above the stated laboratory reporting limit
--- = Not Analyzed

TABLE 4
Summary of Organic Results
YBI Duct Bank

Sample ID	Sample Depth (m)	Sample Depth (ft)	TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)
DB1-0	0	0	110	210	---
DB1-0.5	0.5	1.6	130	270	<1.0
DB1-1.0	1	3.3	1.1	3.4	<1.0
DB1-1.5	1.5	4.9	240	490	<1.0
DB2-0	0	0	26	96	---
DB2-0.5	0.5	1.6	14	54	<1.0
DB2-1.0	1	3.3	30	75	<1.0
DB2-1.5	1.5	4.9	8.9	25	<1.0
DB2-2.0	2	6.6	1.3	3.6	<1.0
DB2-2.5	2.5	8.2	<1.0	2.8	<1.0
DB3-0	0	0	4.0	11	---
DB3-0.5	0.5	1.6	5.6	14	<1.0
DB3-1.0	1	3.3	<1.0	1.2	<1.0
DB3-1.5	1.5	4.9	<1.0	<1.0	<1.0
DB3-2.0	2	6.6	1.1	3.2	<1.0
DB3-2.5	2.5	8.2	1.5	4.4	<1.0
DB4-0	0	0	640	2,400	---
DB4-0.5	0.5	1.6	350	1,300	<1.0
DB4-1.0	1	3.3	15	26	<1.0
DB4-1.5	1.5	4.9	21	48	<1.0
DB4-2.0	2	6.6	27	54	<1.0

Notes:

TPHmo = Total Petroleum Hydrocarbons as motor oil
TPHd = Total Petroleum Hydrocarbons as diesel
TPHg = Total Petroleum Hydrocarbons as gasoline
--- = Not Analyzed
<= = Not detected above the laboratory reporting limit
mg/kg = milligrams per kilogram

APPENDIX A

December 20, 2006

Rick Day
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
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FAX: (925) 371-5915

RECEIVED
DEC 28 2006
By

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 088420

RE: CALTRANS - YBI DUCT BANK, E8220-06-6

Attention: Rick Day

Enclosed are the results for sample(s) received on December 08, 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.

CLIENT: Geocon Consultants, Inc.
Project: CALTRANS - YBI DUCT BANK, E8220-06-68
Lab Order: 088420

CASE NARRATIVE

Analytical Comments for Method 7471

RPD for Duplicate (DUP) is outside criteria for sample 088420-021ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 8015 (DRO/ORO)

Dilution was necessary for samples 088420-001A, 088420-002A, 088420-004A, 088420-005A, 088420-017A and 088420-018A, due to sample matrix.

Matrix Spike (MS) is outside recovery criteria for sample 088415-026AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for samples 088420-003ADUP and 088420-012ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

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

Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB1-0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:03:00 AM
Lab ID:	088420-001A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	72	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	32	1.0		mg/Kg	1	12/13/2006
Cobalt	6.4	1.0		mg/Kg	1	12/13/2006
Copper	18	2.0		mg/Kg	1	12/13/2006
Lead	650	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	33	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	23	1.0		mg/Kg	1	12/13/2006
Zinc	74	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	110	10		mg/Kg	10	12/14/2006
ORO	210	10		mg/Kg	10	12/14/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB1-0.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:16:00 AM
Lab ID:	088420-002A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	53	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	32	1.0		mg/Kg	1	12/13/2006
Cobalt	6.1	1.0		mg/Kg	1	12/13/2006
Copper	17	2.0		mg/Kg	1	12/13/2006
Lead	290	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	31	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	22	1.0		mg/Kg	1	12/13/2006
Zinc	63	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	130	10		mg/Kg	10	12/14/2006
ORO	270	10		mg/Kg	10	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB1-1.0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:22:00 AM
Lab ID:	088420-003A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085				PrepDate: 12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	59	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	33	1.0		mg/Kg	1	12/13/2006
Cobalt	7.8	1.0		mg/Kg	1	12/13/2006
Copper	8.8	2.0		mg/Kg	1	12/13/2006
Lead	3.0	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	36	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	25	1.0		mg/Kg	1	12/13/2006
Zinc	33	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131				PrepDate: 12/13/2006	Analyst: **CBR**
DRO	1.1	1.0		mg/Kg	1	12/14/2006
ORO	3.4	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241				PrepDate:	Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115				PrepDate: 12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB1-1.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:47:00 AM
Lab ID:	088420-004A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	53	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	29	1.0		mg/Kg	1	12/13/2006
Cobalt	5.7	1.0		mg/Kg	1	12/13/2006
Copper	19	2.0		mg/Kg	1	12/13/2006
Lead	740	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	30	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	20	1.0		mg/Kg	1	12/13/2006
Zinc	83	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	240	10		mg/Kg	10	12/14/2006
ORO	490	10		mg/Kg	10	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212A	QC Batch: E06VS242			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB2-0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 8:55:00 AM
Lab ID:	088420-005A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085				PrepDate: 12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	2.9	1.0		mg/Kg	1	12/13/2006
Barium	98	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	60	1.0		mg/Kg	1	12/13/2006
Cobalt	11	1.0		mg/Kg	1	12/13/2006
Copper	26	2.0		mg/Kg	1	12/13/2006
Lead	110	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	66	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	30	1.0		mg/Kg	1	12/13/2006
Zinc	60	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131				PrepDate: 12/13/2006	Analyst: **CBR**
DRO	26	10		mg/Kg	10	12/14/2006
ORO	96	10		mg/Kg	10	12/14/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115				PrepDate: 12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB2-0.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:04:00 AM
Lab ID:	088420-006A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	3.3	1.0		mg/Kg	1	12/13/2006
Barium	96	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	44	1.0		mg/Kg	1	12/13/2006
Cobalt	14	1.0		mg/Kg	1	12/13/2006
Copper	36	2.0		mg/Kg	1	12/13/2006
Lead	25	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	58	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	34	1.0		mg/Kg	1	12/13/2006
Zinc	59	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	14	1.0		mg/Kg	1	12/14/2006
ORO	54	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB2-1.0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:20:00 AM
Lab ID:	088420-007A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	13	1.0		mg/Kg	1	12/13/2006
Barium	80	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	31	1.0		mg/Kg	1	12/13/2006
Cobalt	6.3	1.0		mg/Kg	1	12/13/2006
Copper	22	2.0		mg/Kg	1	12/13/2006
Lead	620	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	30	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	25	1.0		mg/Kg	1	12/13/2006
Zinc	62	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	30	1.0		mg/Kg	1	12/14/2006
ORO	75	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB2-1.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:34:00 AM
Lab ID:	088420-008A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	6.1	1.0		mg/Kg	1	12/13/2006
Barium	58	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	34	1.0		mg/Kg	1	12/13/2006
Cobalt	7.1	1.0		mg/Kg	1	12/13/2006
Copper	12	2.0		mg/Kg	1	12/13/2006
Lead	120	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	34	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	25	1.0		mg/Kg	1	12/13/2006
Zinc	37	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	8.9	1.0		mg/Kg	1	12/14/2006
ORO	25	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061211C	QC Batch: E06VS240			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB2-2.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 11:21:00 AM
Lab ID:	088420-010A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213E	QC Batch: 32085			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	59	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	35	1.0		mg/Kg	1	12/13/2006
Cobalt	6.9	1.0		mg/Kg	1	12/13/2006
Copper	9.5	2.0		mg/Kg	1	12/13/2006
Lead	9.3	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	36	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	24	1.0		mg/Kg	1	12/13/2006
Zinc	26	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_BACK_061213C	QC Batch: 32131			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	ND	1.0		mg/Kg	1	12/14/2006
ORO	2.8	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061211C	QC Batch: E06VS240			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213B	QC Batch: 32115			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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

Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB3-0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 8:49:00 AM
Lab ID:	088420-011A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	56	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	51	1.0		mg/Kg	1	12/13/2006
Cobalt	9.4	1.0		mg/Kg	1	12/13/2006
Copper	11	2.0		mg/Kg	1	12/13/2006
Lead	6.9	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	47	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	37	1.0		mg/Kg	1	12/13/2006
Zinc	28	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	4.0	1.0		mg/Kg	1	12/14/2006
ORO	11	1.0		mg/Kg	1	12/14/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB3-0.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:22:00 AM
Lab ID:	088420-012A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	1.8	1.0		mg/Kg	1	12/13/2006
Barium	99	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	39	1.0		mg/Kg	1	12/13/2006
Cobalt	9.2	1.0		mg/Kg	1	12/13/2006
Copper	23	2.0		mg/Kg	1	12/13/2006
Lead	14	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	38	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	31	1.0		mg/Kg	1	12/13/2006
Zinc	42	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	5.6	1.0		mg/Kg	1	12/14/2006
ORO	14	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	0.12	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB3-1.0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:42:00 AM
Lab ID:	088420-013A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	48	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	50	1.0		mg/Kg	1	12/13/2006
Cobalt	8.3	1.0		mg/Kg	1	12/13/2006
Copper	9.7	2.0		mg/Kg	1	12/13/2006
Lead	3.0	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	40	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	36	1.0		mg/Kg	1	12/13/2006
Zinc	21	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	ND	1.0		mg/Kg	1	12/13/2006
ORO	1.2	1.0		mg/Kg	1	12/13/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212A	QC Batch: E06VS242			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB3-1.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:57:00 AM
Lab ID:	088420-014A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	51	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	53	1.0		mg/Kg	1	12/13/2006
Cobalt	8.9	1.0		mg/Kg	1	12/13/2006
Copper	10	2.0		mg/Kg	1	12/13/2006
Lead	2.7	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	39	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	40	1.0		mg/Kg	1	12/13/2006
Zinc	22	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	ND	1.0		mg/Kg	1	12/13/2006
ORO	ND	1.0		mg/Kg	1	12/13/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB3-2.0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 11:35:00 AM
Lab ID:	088420-015A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	69	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	44	1.0		mg/Kg	1	12/13/2006
Cobalt	7.7	1.0		mg/Kg	1	12/13/2006
Copper	10	2.0		mg/Kg	1	12/13/2006
Lead	23	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	30	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	32	1.0		mg/Kg	1	12/13/2006
Zinc	31	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	1.1	1.0		mg/Kg	1	12/14/2006
ORO	3.2	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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

Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB3-2.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 11:38:00 AM
Lab ID:	088420-016A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	1.4	0.99		mg/Kg	1	12/13/2006
Barium	78	0.99		mg/Kg	1	12/13/2006
Beryllium	ND	0.99		mg/Kg	1	12/13/2006
Cadmium	ND	0.99		mg/Kg	1	12/13/2006
Chromium	51	0.99		mg/Kg	1	12/13/2006
Cobalt	9.3	0.99		mg/Kg	1	12/13/2006
Copper	15	2.0		mg/Kg	1	12/13/2006
Lead	11	0.99		mg/Kg	1	12/13/2006
Molybdenum	ND	0.99		mg/Kg	1	12/13/2006
Nickel	35	0.99		mg/Kg	1	12/13/2006
Selenium	ND	0.99		mg/Kg	1	12/13/2006
Silver	ND	0.99		mg/Kg	1	12/13/2006
Thallium	ND	0.99		mg/Kg	1	12/13/2006
Vanadium	40	0.99		mg/Kg	1	12/13/2006
Zinc	32	0.99		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	1.5	1.0		mg/Kg	1	12/14/2006
ORO	4.4	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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
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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB4-0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 8:38:00 AM
Lab ID:	088420-017A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	ND	1.0		mg/Kg	1	12/13/2006
Barium	86	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	23	1.0		mg/Kg	1	12/13/2006
Cobalt	6.1	1.0		mg/Kg	1	12/13/2006
Copper	13	2.0		mg/Kg	1	12/13/2006
Lead	16	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	26	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	34	1.0		mg/Kg	1	12/13/2006
Zinc	34	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	640	40		mg/Kg	20	12/14/2006
ORO	2400	40		mg/Kg	20	12/14/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB4-0.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:00:00 AM
Lab ID:	088420-018A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	2.0	1.0		mg/Kg	1	12/13/2006
Barium	96	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	24	1.0		mg/Kg	1	12/13/2006
Cobalt	5.8	1.0		mg/Kg	1	12/13/2006
Copper	22	2.0		mg/Kg	1	12/13/2006
Lead	9.0	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	26	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	29	1.0		mg/Kg	1	12/13/2006
Zinc	35	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	350	20		mg/Kg	20	12/14/2006
ORO	1300	20		mg/Kg	20	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061211B	QC Batch: E06VS239			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB4-1.0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:36:00 AM
Lab ID:	088420-019A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	1.4	1.0		mg/Kg	1	12/13/2006
Barium	73	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	36	1.0		mg/Kg	1	12/13/2006
Cobalt	9.2	1.0		mg/Kg	1	12/13/2006
Copper	9.3	2.0		mg/Kg	1	12/13/2006
Lead	3.7	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	35	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	26	1.0		mg/Kg	1	12/13/2006
Zinc	22	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	15	1.0		mg/Kg	1	12/14/2006
ORO	26	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061211C	QC Batch: E06VS240			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB4-1.5
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 9:55:00 AM
Lab ID:	088420-020A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_061213F	QC Batch: 32086			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/13/2006
Arsenic	1.1	1.0		mg/Kg	1	12/13/2006
Barium	57	1.0		mg/Kg	1	12/13/2006
Beryllium	ND	1.0		mg/Kg	1	12/13/2006
Cadmium	ND	1.0		mg/Kg	1	12/13/2006
Chromium	34	1.0		mg/Kg	1	12/13/2006
Cobalt	7.7	1.0		mg/Kg	1	12/13/2006
Copper	8.9	2.0		mg/Kg	1	12/13/2006
Lead	3.6	1.0		mg/Kg	1	12/13/2006
Molybdenum	ND	1.0		mg/Kg	1	12/13/2006
Nickel	36	1.0		mg/Kg	1	12/13/2006
Selenium	ND	1.0		mg/Kg	1	12/13/2006
Silver	ND	1.0		mg/Kg	1	12/13/2006
Thallium	ND	1.0		mg/Kg	1	12/13/2006
Vanadium	25	1.0		mg/Kg	1	12/13/2006
Zinc	23	1.0		mg/Kg	1	12/13/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213D	QC Batch: 32132			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	21	1.0		mg/Kg	1	12/14/2006
ORO	48	1.0		mg/Kg	1	12/14/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212B	QC Batch: E06VS241			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/12/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213C	QC Batch: 32116			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	DB4-2.0
Lab Order:	088420	**Tag Number:**	
Project:	CALTRANS - YBI DUCT BANK, E8220-06	**Collection Date:**	12/7/2006 10:06:00 AM
Lab ID:	088420-021A	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP5_061215A	QC Batch: 32087			PrepDate:	12/12/2006	Analyst: **RQ**
Antimony	ND	2.0		mg/Kg	1	12/15/2006
Arsenic	1.3	1.0		mg/Kg	1	12/15/2006
Barium	72	1.0		mg/Kg	1	12/15/2006
Beryllium	ND	1.0		mg/Kg	1	12/15/2006
Cadmium	ND	1.0		mg/Kg	1	12/15/2006
Chromium	32	1.0		mg/Kg	1	12/15/2006
Cobalt	6.8	1.0		mg/Kg	1	12/15/2006
Copper	7.4	2.0		mg/Kg	1	12/15/2006
Lead	6.9	1.0		mg/Kg	1	12/15/2006
Molybdenum	ND	1.0		mg/Kg	1	12/15/2006
Nickel	30	1.0		mg/Kg	1	12/15/2006
Selenium	ND	1.0		mg/Kg	1	12/15/2006
Silver	ND	1.0		mg/Kg	1	12/15/2006
Thallium	ND	1.0		mg/Kg	1	12/15/2006
Vanadium	24	1.0		mg/Kg	1	12/15/2006
Zinc	24	1.0		mg/Kg	1	12/15/2006
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC7_061213C	QC Batch: 32114			PrepDate:	12/13/2006	Analyst: **CBR**
DRO	27	1.0		mg/Kg	1	12/13/2006
ORO	54	1.0		mg/Kg	1	12/13/2006
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_061212A	QC Batch: E06VS242			PrepDate:		Analyst: **ML**
GRO	ND	1.0		mg/Kg	1	12/13/2006
MERCURY BY COLD VAPOR TECHNIQUE						
	EPA 7471			**EPA 7471A**		
RunID: AA5_061213D	QC Batch: 32117			PrepDate:	12/13/2006	Analyst: **EKS**
Mercury	ND	0.10		mg/Kg	1	12/13/2006

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		

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Advanced Technology Laboratories

Date: *20-Dec-06*

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-32085** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71474**
Client ID: **PBS** Batch ID: **32085** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-32085** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71474**
Client ID: **LCSS** Batch ID: **32085** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	51.462	2.0	50.00	0	103	80	120				
Arsenic	49.123	1.0	50.00	0	98.2	80	120				
Barium	51.816	1.0	50.00	0	104	80	120				
Beryllium	48.505	1.0	50.00	0	97.0	80	120				
Cadmium	50.101	1.0	50.00	0	100	80	120				
Chromium	50.721	1.0	50.00	0	101	80	120				
Cobalt	48.459	1.0	50.00	0	96.9	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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

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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-32085** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71474**
Client ID: **LCSS** Batch ID: **32085** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	52.215	2.0	50.00	0	104	80	120				
Lead	50.594	1.0	50.00	0	101	80	120				
Molybdenum	50.854	1.0	50.00	0	102	80	120				
Nickel	49.021	1.0	50.00	0	98.0	80	120				
Selenium	47.001	1.0	50.00	0	94.0	80	120				
Silver	50.044	1.0	50.00	0	100	80	120				
Thallium	49.637	1.0	50.00	0	99.3	80	120				
Vanadium	50.599	1.0	50.00	0	101	80	120				
Zinc	49.153	1.0	50.00	0	98.3	80	120				

Sample ID: **088420-010ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71474**
Client ID: **DB2-2.5** Batch ID: **32085** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069713**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0.8495	0	20	
Arsenic	0.853	1.0						0.4427	0	20	
Barium	55.862	1.0						59.44	6.20	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.087	1.0						0.07732	0	20	
Chromium	33.370	1.0						34.76	4.07	20	
Cobalt	6.791	1.0						6.906	1.68	20	
Copper	9.004	2.0						9.500	5.36	20	
Lead	8.216	1.0						9.272	12.1	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	35.425	1.0						35.82	1.11	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	23.702	1.0						24.35	2.72	20	
Zinc	25.176	1.0						26.26	4.21	20	

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **088420-010AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71474**
Client ID: **DB2-2.5** Batch ID: **32085** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069714**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	93.557	2.0	125.0	0.8495	74.2	24	110				
Arsenic	105.967	1.0	125.0	0.4427	84.4	61	104				
Barium	166.300	1.0	125.0	59.44	85.5	35	135				
Beryllium	106.723	1.0	125.0	0	85.4	64	104				
Cadmium	109.493	1.0	125.0	0.07732	87.5	65	106				
Chromium	142.714	1.0	125.0	34.76	86.4	47	122				
Cobalt	115.121	1.0	125.0	6.906	86.6	55	111				
Copper	132.003	2.0	125.0	9.500	98.0	52	132				
Lead	116.623	1.0	125.0	9.272	85.9	37	128				
Molybdenum	108.485	1.0	125.0	0	86.8	58	108				
Nickel	144.570	1.0	125.0	35.82	87.0	48	120				
Selenium	97.266	1.0	125.0	0	77.8	57	105				
Silver	113.285	1.0	125.0	0	90.6	44	116				
Thallium	103.002	1.0	125.0	0	82.4	55	103				
Vanadium	137.692	1.0	125.0	24.35	90.7	57	116				
Zinc	131.894	1.0	125.0	26.26	84.5	41	120				

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories
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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-32086** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71475**
Client ID: **PBS** Batch ID: **32086** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069716**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	0.031	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-32086** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71475**
Client ID: **LCSS** Batch ID: **32086** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	50.174	2.0	50.00	0	100	80	120				
Arsenic	48.015	1.0	50.00	0	96.0	80	120				
Barium	51.092	1.0	50.00	0	102	80	120				
Beryllium	47.666	1.0	50.00	0	95.3	80	120				
Cadmium	49.401	1.0	50.00	0.03081	98.7	80	120				
Chromium	49.720	1.0	50.00	0	99.4	80	120				
Cobalt	47.457	1.0	50.00	0	94.9	80	120				
Copper	51.349	2.0	50.00	0	103	80	120				
Lead	49.951	1.0	50.00	0	99.9	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-32086** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71475**
Client ID: **LCSS** Batch ID: **32086** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069717**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	49.801	1.0	50.00	0	99.6	80	120				
Nickel	48.032	1.0	50.00	0	96.1	80	120				
Selenium	45.673	1.0	50.00	0	91.3	80	120				
Silver	49.317	1.0	50.00	0	98.6	80	120				
Thallium	48.612	1.0	50.00	0	97.2	80	120				
Vanadium	49.533	1.0	50.00	0	99.1	80	120				
Zinc	48.043	1.0	50.00	0	96.1	80	120				

Sample ID: **088420-020ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71475**
Client ID: **DB4-1.5** Batch ID: **32086** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069728**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0						0	0	20	
Arsenic	1.086	1.0						1.131	4.12	20	
Barium	55.581	1.0						56.93	2.39	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.076	1.0						0.04903	0	20	
Chromium	33.581	1.0						34.20	1.82	20	
Cobalt	7.004	1.0						7.710	9.60	20	
Copper	8.195	2.0						8.861	7.81	20	
Lead	3.442	1.0						3.575	3.79	20	
Molybdenum	0.111	1.0						0.1365	0	20	
Nickel	33.515	1.0						35.61	6.05	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	23.399	1.0						24.60	4.99	20	
Zinc	20.950	1.0						22.54	7.33	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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

Advanced Technology Laboratories
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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **088420-020AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71475**
Client ID: **DB4-1.5** Batch ID: **32086** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/13/2006** SeqNo: **1069729**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	87.363	2.0	125.0	0	69.9	24	110				
Arsenic	103.220	1.0	125.0	1.131	81.7	61	104				
Barium	162.662	1.0	125.0	56.93	84.6	35	135				
Beryllium	104.437	1.0	125.0	0	83.5	64	104				
Cadmium	106.995	1.0	125.0	0.04903	85.6	65	106				
Chromium	141.604	1.0	125.0	34.20	85.9	47	122				
Cobalt	113.036	1.0	125.0	7.710	84.3	55	111				
Copper	128.774	2.0	125.0	8.861	95.9	52	132				
Lead	108.319	1.0	125.0	3.575	83.8	37	128				
Molybdenum	105.148	1.0	125.0	0.1365	84.0	58	108				
Nickel	140.538	1.0	125.0	35.61	83.9	48	120				
Selenium	94.018	1.0	125.0	0	75.2	57	105				
Silver	96.463	1.0	125.0	0	77.2	44	116				
Thallium	100.336	1.0	125.0	0	80.3	55	103				
Vanadium	134.387	1.0	125.0	24.60	87.8	57	116				
Zinc	124.302	1.0	125.0	22.54	81.4	41	120				

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-32087** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71602**
Client ID: **PBS** Batch ID: **32087** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2006** SeqNo: **1071797**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	0.086	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID: **LCS-32087** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71602**
Client ID: **LCSS** Batch ID: **32087** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2006** SeqNo: **1071798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	49.157	2.0	50.00	0	98.3	80	120				
Arsenic	47.007	1.0	50.00	0	94.0	80	120				
Barium	48.974	1.0	50.00	0	97.9	80	120				
Beryllium	46.078	1.0	50.00	0	92.2	80	120				
Cadmium	47.293	1.0	50.00	0	94.6	80	120				
Chromium	49.882	1.0	50.00	0	99.8	80	120				
Cobalt	45.345	1.0	50.00	0.08559	90.5	80	120				
Copper	48.706	2.0	50.00	0	97.4	80	120				
Lead	46.891	1.0	50.00	0	93.8	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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

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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-32087** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71602**
Client ID: **LCSS** Batch ID: **32087** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2006** SeqNo: **1071798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	48.230	1.0	50.00	0	96.5	80	120				
Nickel	46.329	1.0	50.00	0	92.7	80	120				
Selenium	45.152	1.0	50.00	0	90.3	80	120				
Silver	51.010	1.0	50.00	0	102	80	120				
Thallium	46.326	1.0	50.00	0	92.7	80	120				
Vanadium	48.280	1.0	50.00	0	96.6	80	120				
Zinc	46.030	1.0	50.00	0	92.1	80	120				

Sample ID: **088437-023ADUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71602**
Client ID: **ZZZZZZ** Batch ID: **32087** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2006** SeqNo: **1071805**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.884	1.0						3.078	6.51	20	

Sample ID: **088437-023AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71602**
Client ID: **ZZZZZZ** Batch ID: **32087** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2006** SeqNo: **1071806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	64.383	2.0	125.0	0	51.5	24	110				
Arsenic	97.584	1.0	125.0	3.078	75.6	61	104				
Barium	193.080	1.0	125.0	103.4	71.8	35	135				
Beryllium	94.226	1.0	125.0	0.1074	75.3	64	104				
Cadmium	92.842	1.0	125.0	0.8376	73.6	65	106				
Chromium	106.214	1.0	125.0	11.16	76.0	47	122				
Cobalt	97.220	1.0	125.0	4.589	74.1	55	111				
Copper	106.284	2.0	125.0	8.075	78.6	52	132				
Lead	95.944	1.0	125.0	5.410	72.4	37	128				
Molybdenum	94.019	1.0	125.0	0	75.2	58	108				
Nickel	99.217	1.0	125.0	7.634	73.3	48	120				
Selenium	91.157	1.0	125.0	0	72.9	57	105				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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

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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **088437-023AMS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **12/12/2006** RunNo: **71602**
Client ID: **ZZZZZZ** Batch ID: **32087** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **12/15/2006** SeqNo: **1071806**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	88.374	1.0	125.0	0	70.7	44	116				
Thallium	80.028	1.0	125.0	0	64.0	55	103				
Vanadium	131.802	1.0	125.0	28.98	82.3	57	116				
Zinc	133.808	1.0	125.0	43.78	72.0	41	120				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
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

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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **088420-010A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71459**
Client ID: **DB2-2.5** Batch ID: **32115** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10						0	0	20	

Sample ID: **088420-010A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71459**
Client ID: **DB2-2.5** Batch ID: **32115** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069526**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.082	0.10	0.8300	0	130	67	160				

Sample ID: **LCS-32115** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71459**
Client ID: **LCSS** Batch ID: **32115** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.829	0.10	0.8300	0	99.9	80	120				

Sample ID: **MB-32115** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71459**
Client ID: **PBS** Batch ID: **32115** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069529**

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

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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Work Order: 088420
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ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **088420-020A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71460**
Client ID: **DB4-1.5** Batch ID: **32116** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10						0	0	20	

Sample ID: **088420-020A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71460**
Client ID: **DB4-1.5** Batch ID: **32116** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069541**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.043	0.10	0.8300	0	126	67	160				

Sample ID: **LCS-32116** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71460**
Client ID: **LCSS** Batch ID: **32116** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.934	0.10	0.8300	0	112	80	120				

Sample ID: **MB-32116** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71460**
Client ID: **PBS** Batch ID: **32116** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069544**

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

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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CLIENT: Geocon Consultants, Inc.
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Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **088420-021A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71461**
Client ID: **DB4-2.0** Batch ID: **32117** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.607	0.10						0.04387	173	20	R

Sample ID: **088420-021A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71461**
Client ID: **DB4-2.0** Batch ID: **32117** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1.032	0.10	0.8300	0.04387	119	67	160				

Sample ID: **LCS-32117** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71461**
Client ID: **LCSS** Batch ID: **32117** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069555**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.785	0.10	0.8300	0	94.6	80	120				

Sample ID: **MB-32117** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71461**
Client ID: **PBS** Batch ID: **32117** TestNo: **EPA 7471A** **EPA 7471** Analysis Date: **12/13/2006** SeqNo: **1069556**

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

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **MB-32114** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71584**
Client ID: **PBS** Batch ID: **32114** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071442**

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

Sample ID: **LCS-32114** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71584**
Client ID: **LCSS** Batch ID: **32114** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	17.287	1.0	33.00	0	52.4	38	112				

Sample ID: **088415-026AMS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71584**
Client ID: **ZZZZZZ** Batch ID: **32114** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071444**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1.459	1.0	33.00	1.372	0.266	25	109				S

Sample ID: **088415-026ADUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71584**
Client ID: **ZZZZZZ** Batch ID: **32114** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	ND	1.0						1.372	0	30	
ORO	ND	1.0						3.714	0	30	

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **MB-32131** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71672**
Client ID: **PBS** Batch ID: **32131** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/14/2006** SeqNo: **1072824**

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

Sample ID: **LCS-32131** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71672**
Client ID: **LCSS** Batch ID: **32131** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/14/2006** SeqNo: **1072825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	18.576	1.0	33.00	0	56.3	38	112				

Sample ID: **088420-003AMS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71672**
Client ID: **DB1-1.0** Batch ID: **32131** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/14/2006** SeqNo: **1072826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	18.695	1.0	33.00	1.088	53.4	25	109				

Sample ID: **088420-003ADUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71672**
Client ID: **DB1-1.0** Batch ID: **32131** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/14/2006** SeqNo: **1072828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	1.277	1.0						1.088	16.0	30	
ORO	4.642	1.0						3.412	30.5	30	R

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **MB-32132** SampType: **MBLK** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71590**
Client ID: **PBS** Batch ID: **32132** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071542**

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

Sample ID: **LCS-32132** SampType: **LCS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71590**
Client ID: **LCSS** Batch ID: **32132** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	15.936	1.0	33.00	0	48.3	38	112				

Sample ID: **088420-012AMS** SampType: **MS** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71590**
Client ID: **DB3-0.5** Batch ID: **32132** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071544**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	20.576	1.0	33.00	5.565	45.5	25	109				

Sample ID: **088420-012ADUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **12/13/2006** RunNo: **71590**
Client ID: **DB3-0.5** Batch ID: **32132** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **12/13/2006** SeqNo: **1071546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	3.570	1.0						5.565	43.7	30	R
ORO	8.961	1.0						13.91	43.3	30	R

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: **E121106MB2** SampType: **MBLK** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71408**
Client ID: **PBS** Batch ID: **E06VS239** TestNo: **EPA 8015B(M** Analysis Date: **12/11/2006** SeqNo: **1068501**

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

Sample ID: **088420-004AMS** SampType: **MS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71408**
Client ID: **DB1-1.5** Batch ID: **E06VS239** TestNo: **EPA 8015B(M** Analysis Date: **12/11/2006** SeqNo: **1068503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.017	1.0	5.000	0	60.3	34	150				

Sample ID: **E121106LCS3** SampType: **LCS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71408**
Client ID: **LCSS** Batch ID: **E06VS239** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1068515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.011	1.0	5.000	0	100	74	113				

Sample ID: **088420-018A** SampType: **DUP** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71408**
Client ID: **DB4-0.5** Batch ID: **E06VS239** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1069184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.222	1.0						0.2200	0	30	

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: **E121106MB3** SampType: **MBLK** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71410**
Client ID: **PBS** Batch ID: **E06VS240** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1068530**

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

Sample ID: **088420-010AMS** SampType: **MS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71410**
Client ID: **DB2-2.5** Batch ID: **E06VS240** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1068532**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.679	1.0	5.000	0.2560	88.5	34	150				

Sample ID: **E121106LCS5** SampType: **LCS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71410**
Client ID: **LCSS** Batch ID: **E06VS240** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1068535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.850	1.0	5.000	0	97.0	74	113				

Sample ID: **088420-019A** SampType: **DUP** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71410**
Client ID: **DB4-1.0** Batch ID: **E06VS240** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1069243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.230	1.0						0.2480	0	30	

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: **E121206MB1** SampType: **MBLK** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71453**
Client ID: **PBS** Batch ID: **E06VS241** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1069344**

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

Sample ID: **088420-020AMS** SampType: **MS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71453**
Client ID: **DB4-1.5** Batch ID: **E06VS241** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1069346**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.397	1.0	5.000	0.2140	83.7	34	150				

Sample ID: **088420-009A** SampType: **DUP** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71453**
Client ID: **DB2-2.0** Batch ID: **E06VS241** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1069358**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.209	1.0						0.2110	0	30	

Sample ID: **E121206LCS1** SampType: **LCS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71453**
Client ID: **LCSS** Batch ID: **E06VS241** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1069363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.821	1.0	5.000	0	96.4	74	113				

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: **E121206MB2** SampType: **MBLK** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71431**
Client ID: **PBS** Batch ID: **E06VS242** TestNo: **EPA 8015B(M** Analysis Date: **12/12/2006** SeqNo: **1068885**

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

Sample ID: **088465-005DMS** SampType: **MS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71431**
Client ID: **ZZZZZZ** Batch ID: **E06VS242** TestNo: **EPA 8015B(M** Analysis Date: **12/13/2006** SeqNo: **1068887**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.926	1.0	5.000	0.2100	74.3	34	150				

Sample ID: **E121206LCS3** SampType: **LCS** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71431**
Client ID: **LCSS** Batch ID: **E06VS242** TestNo: **EPA 8015B(M** Analysis Date: **12/13/2006** SeqNo: **1068892**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.000	1.0	5.000	0	100	74	113				

Sample ID: **088420-013A** SampType: **DUP** TestCode: **8015_S_GAS** Units: **mg/Kg** Prep Date: RunNo: **71431**
Client ID: **DB3-1.0** Batch ID: **E06VS242** TestNo: **EPA 8015B(M** Analysis Date: **12/13/2006** SeqNo: **1069333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.216	1.0						0.2360	0	30	

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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: W Date: 12/8/06

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

Sample Condition Upon Receipt:
1. CHILLED 11°C 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
Attn: RICK DAY / CHRIS MERRITT
Address: 2356 RESEARCH DR
City LIVERMORE State CA Zip Code 94550
TEL: (925) 371-5900
FAX: ( ) 5915

Project Name: CALTRANS - YBI DUCT BANK Project #: E8220-06-68
Sampler: (Printed Name) D. WATTS / C. MERRITT (Signature) CM (FOR)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
CHRIS MERRITT	12-7-06	UPS 1500	[illegible]	12/8/06	9:50

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CM 12-7-06
Print Name Date
CM
Signature

Send Report To: Attn: A/A 1 Co: Address City State Zip

Bill To: Attn: A/A 1 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: 8081A (Pesticides), 8082 (PCB), 8260B (Volatiles), 8270C (BNA), 6010B (Total Metal), 8015B (GRO) & 8020 (BTEX), 8015B (DRO) & MO, 8021 (BTEX), TITLE 22 / CAM 17 (6010 / 7000)

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

Q A / Q C: 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)	6010B (Total Metal)	8015B (GRO) & 8020 (BTEX)	8015B (DRO) & MO	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	DB 420 - 1	DB1-0	12-7-06	0903						X		X				X			E	1	TM	
	2	DB1-0.5		0916					X													
	3	DB1-1.0		0922					X													
	4	DB1-1.5		0947					X													
	5	DB2-0		0855																		
	6	DB2-0.5		1004					X													
	7	DB2-1.0		1020					X													
	8	DB2-1.5		1031					X													
	9	DB2-2.0		1104					X													
	10	DB2-2.5		1121					X													

• 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: _____

Method of Transport: Client ☐ ATL ☐ CA Overn ☐ FEDEX ☐ Other: UPS

Sample Condition Upon Receipt: 1. CHILLED 11.8 Y☐ N☐ 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
Attn: RICK DAY / CHRIS MERRITT
Address: SEE PAGE 1 ← →
City ~~State~~ Zip Code
TEL: ( )
FAX: ( )

Project Name: CALTRANS - YBI DUCTBANK Project #: E8220-06-68 Sampler: (Printed Name) D. WATTS / C. MERRITT (Signature) CM (FOR)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
CHRIS MERRITT	12-7-06	1300	Mary	12/8/06	9:50

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CM (Print Name) 12-7-06 (Date) CM (Signature)

Send Report To: Attn: _____ Co: SEE P1 Address _____ City _____ State _____ Zip _____

Bill To: Attn: _____ Co: SEE P1 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)	6010B (Total Metal)	8015B (GRO)	8015B (DRO) PHC	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	08420 - 11	DB3-0	12-7-06	0849						X		X		X				E	1	T M		
	- 12	DB3-0.5		1022					X													
	- 13	DB3-1.0		1042					X													
	- 14	DB3-1.5		1057					X													
	- 15	DB3-2.0		1135					X													
	- 16	DB3-2.5		1138					X													
	- 17	DB4-0		0838																		
	- 18	DB4-0.5		0900					X													
	- 19	DB4-1.0		0936					X													
	- 20	DB4-1.5		0955					X													

• 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: _____

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

Sample Condition Upon Receipt:
1. CHILLED 11.8 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
Attn: RICK DAY / CHRIS MERRITT
Address: SEE PAGE 1
City / State / Zip Code
TEL: ( )
FAX: ( )

Project Name: CALTRANS VBI DUCT BANK Project #: E8220-06-68 Sampler: (Printed Name) D. WATTS / C. MERRITT (Signature) CM (FOR)

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
CHRIS MERRITT	12-7-06	1PM 1500	Marg	12/8/06	9:30

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CM 12-7-06 (Print Name / Date)
Signature: CM

Send Report To: Attn: _____ Co: SEE P1 Address _____ City _____ State _____ Zip _____

Bill To: Attn: _____ Co: SEE P1 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

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX) + MO	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	188420-21	DB4-2.0	12-7-06	1006					X	X		X		X				E	1	T M		

Q A / Q C: RTNE ☐ CT ☑ SWRCB ☐ Logcode ____ OTHER ____

• 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.

January 15, 2007

Rick Day
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

RECEIVED
JAN 18 2007
By

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 088420

RE: CALTRANS - YBI DUCT BANK, E8220-06-6

Attention: Rick Day

Enclosed are the results for sample(s) received on December 08, 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

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

CLIENT: Geocon Consultants, Inc.
Project: CALTRANS - YBI DUCT BANK, E8220-06-68
Lab Order: 088420

CASE NARRATIVE

Analytical Comments for Method 6010

Dilution was necessary for samples 088420-001A, 088420-002A, 088420-004A, 088420-005A, 088420-007A and 088420-008A, due to sample matrix.

Matrix Spike (MS) is outside recovery criteria for samples 088420-004AMS and 088420-008AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

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Advanced Technology Laboratories

Date: *15-Jan-07*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-68

Lab ID: 088420-001 **Collection Date:** 12/7/2006 9:03:00 AM
Client Sample ID: DB1-0 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP5_070111D	QC Batch: R72839			PrepDate:		Analyst: **RQ**
Lead	23	1.0		mg/L	20	1/11/2007

Lab ID: 088420-002 **Collection Date:** 12/7/2006 9:16:00 AM
Client Sample ID: DB1-0.5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP5_070111D	QC Batch: R72839			PrepDate:		Analyst: **RQ**
Lead	20	1.0		mg/L	20	1/11/2007

Lab ID: 088420-004 **Collection Date:** 12/7/2006 9:47:00 AM
Client Sample ID: DB1-1.5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP5_070112E	QC Batch: R72896			PrepDate:		Analyst: **RQ**
Lead	29	1.0		mg/L	20	1/12/2007

Lab ID: 088420-005 **Collection Date:** 12/7/2006 8:55:00 AM
Client Sample ID: DB2-0 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
			WET/ EPA 6010B			
RunID: ICP5_070111D	QC Batch: R72839			PrepDate:		Analyst: **RQ**
Lead	6.3	1.0		mg/L	20	1/11/2007

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		

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Advanced Technology Laboratories

Date: *15-Jan-07*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-68

Lab ID: 088420-007 **Collection Date:** 12/7/2006 10:20:00 AM
Client Sample ID: DB2-1.0 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
				WET/ EPA 6010B		
RunID: ICP5_070111D	QC Batch: R72839			PrepDate:		Analyst: **RQ**
Lead	41	1.0		mg/L	20	1/11/2007

Lab ID: 088420-008 **Collection Date:** 12/7/2006 10:34:00 AM
Client Sample ID: DB2-1.5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS BY STLC						
				WET/ EPA 6010B		
RunID: ICP5_070111D	QC Batch: R72839			PrepDate:		Analyst: **RQ**
Lead	12	1.0		mg/L	20	1/11/2007

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		

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CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **MB-32661A** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72839**
Client ID: **PBS** Batch ID: **R72839** TestNo: **WET/ EPA 60** Analysis Date: **1/11/2007** SeqNo: **1091171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.050									

Sample ID: **LCS-32661** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72839**
Client ID: **LCSS** Batch ID: **R72839** TestNo: **WET/ EPA 60** Analysis Date: **1/11/2007** SeqNo: **1091172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.999	0.050	1.000	0	99.9	85	115				

Sample ID: **088420-008ADUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72839**
Client ID: **DB2-1.5** Batch ID: **R72839** TestNo: **WET/ EPA 60** Analysis Date: **1/11/2007** SeqNo: **1091178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.102	1.0						12.09	0.100	20	

Sample ID: **088420-008AMS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72839**
Client ID: **DB2-1.5** Batch ID: **R72839** TestNo: **WET/ EPA 60** Analysis Date: **1/11/2007** SeqNo: **1091179**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.567	1.0	2.500	12.09	59.1	82	113				S

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

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

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_ST

Sample ID: **MB-32685A** SampType: **MBLK** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72896**
Client ID: **PBS** Batch ID: **R72896** TestNo: **WET/ EPA 60** Analysis Date: **1/12/2007** SeqNo: **1092152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.050									

Sample ID: **LCS-32685** SampType: **LCS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72896**
Client ID: **LCSS** Batch ID: **R72896** TestNo: **WET/ EPA 60** Analysis Date: **1/12/2007** SeqNo: **1092153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.986	0.050	1.000	0	98.6	85	115				

Sample ID: **088420-004ADUP** SampType: **DUP** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72896**
Client ID: **DB1-1.5** Batch ID: **R72896** TestNo: **WET/ EPA 60** Analysis Date: **1/12/2007** SeqNo: **1092155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	30.072	1.0						29.01	3.59	20	

Sample ID: **088420-004AMS** SampType: **MS** TestCode: **6010_ST** Units: **mg/L** Prep Date: RunNo: **72896**
Client ID: **DB1-1.5** Batch ID: **R72896** TestNo: **WET/ EPA 60** Analysis Date: **1/12/2007** SeqNo: **1092156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	27.477	1.0	2.500	29.01	-61.4	82	113				S

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Diane Galvan

From: Chris Merritt [merritt@geoconinc.com]
Sent: Friday, December 29, 2006 10:20 AM
To: Diane Galvan
Subject: WETs, ATL Job 0088420, Geocon Job E8220-06-68 (Caltrans - YBI Duct Bank)

Need to run WET on DB1-0, DB1-0.5, DB1-1.5, DB2-0, DB2-1.0, and DB2-1.5.

Standard TAT at this point.

Thanks!

February 21, 2007

RECEIVED
FEB 26 2007
By

ACCREDITED IN ACCORDANCE WITH nelac

Rick Day
Geocon Consultants, Inc.
2356 Research Drive
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 088420

RE: CALTRANS - YBI DUCT BANK, E8220-06-6

Attention: Rick Day

Enclosed are the results for sample(s) received on December 08, 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

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ANALYTICAL RESULTS

Print Date: *21-Feb-07*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-68

Lab ID: 088420-001 **Collection Date:** 12/7/2006 9:03:00 AM
Client Sample ID: DB1-0 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION						
EPA 3010A			**EPA 1311/ 7420**			
RunID: AA2_070220E	QC Batch: 33624			PrepDate:	2/20/2007	Analyst: **EKS**
Lead	ND	1.2		mg/L	1	2/20/2007 12:00 AM

Lab ID: 088420-002 **Collection Date:** 12/7/2006 9:16:00 AM
Client Sample ID: DB1-0.5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION						
EPA 3010A			**EPA 1311/ 7420**			
RunID: AA2_070220E	QC Batch: 33624			PrepDate:	2/20/2007	Analyst: **EKS**
Lead	ND	1.2		mg/L	1	2/20/2007 12:00 AM

Lab ID: 088420-004 **Collection Date:** 12/7/2006 9:47:00 AM
Client Sample ID: DB1-1.5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION						
EPA 3010A			**EPA 1311/ 7420**			
RunID: AA2_070220E	QC Batch: 33624			PrepDate:	2/20/2007	Analyst: **EKS**
Lead	ND	1.2		mg/L	1	2/20/2007 12:00 AM

Lab ID: 088420-005 **Collection Date:** 12/7/2006 8:55:00 AM
Client Sample ID: DB2-0 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION						
EPA 3010A			**EPA 1311/ 7420**			
RunID: AA2_070220E	QC Batch: 33624			PrepDate:	2/20/2007	Analyst: **EKS**
Lead	ND	1.2		mg/L	1	2/20/2007 12:00 AM

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		

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Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *21-Feb-07*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-68

Lab ID: 088420-007 **Collection Date:** 12/7/2006 10:20:00 AM
Client Sample ID: DB2-1.0 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION						
EPA 3010A			**EPA 1311/ 7420**			
RunID: AA2_070220E	QC Batch: 33624			PrepDate:	2/20/2007	Analyst: **EKS**
Lead	ND	1.2		mg/L	1	2/20/2007 12:00 AM

Lab ID: 088420-008 **Collection Date:** 12/7/2006 10:34:00 AM
Client Sample ID: DB2-1.5 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION						
EPA 3010A			**EPA 1311/ 7420**			
RunID: AA2_070220E	QC Batch: 33624			PrepDate:	2/20/2007	Analyst: **EKS**
Lead	ND	1.2		mg/L	1	2/20/2007 12:00 AM

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		

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Advanced Technology Laboratories

Date: *21-Feb-07*

CLIENT: Geocon Consultants, Inc.
Work Order: 088420
Project: CALTRANS - YBI DUCT BANK, E8220-06-6

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-33624	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 2/20/2007	RunNo: 74838
Client ID: PBS	Batch ID: 33624	TestNo: EPA 1311/ 74	EPA 3010A	Analysis Date: 2/20/2007	SeqNo: 1124246

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-33619A-TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 2/20/2007	RunNo: 74838
Client ID: PBS	Batch ID: 33624	TestNo: EPA 1311/ 74	EPA 3010A	Analysis Date: 2/20/2007	SeqNo: 1124247

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.063	0.25									

Sample ID: LCS-33624	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 2/20/2007	RunNo: 74838
Client ID: LCSS	Batch ID: 33624	TestNo: EPA 1311/ 74	EPA 3010A	Analysis Date: 2/20/2007	SeqNo: 1124248

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.126	0.25	1.000	0	113	80	120				

Sample ID: 089429-067A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 2/20/2007	RunNo: 74838
Client ID: ZZZZZZ	Batch ID: 33624	TestNo: EPA 1311/ 74	EPA 3010A	Analysis Date: 2/20/2007	SeqNo: 1124259

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.456	1.2						0.4904	0	20	

Sample ID: 089429-067A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 2/20/2007	RunNo: 74838
Client ID: ZZZZZZ	Batch ID: 33624	TestNo: EPA 1311/ 74	EPA 3010A	Analysis Date: 2/20/2007	SeqNo: 1124260

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	13.831	1.2	12.50	0.4904	107	70	130				

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	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Diane Galvan

From: Chris Giuntoli [giuntoli@geoconinc.com]
Sent: Thursday, February 15, 2007 2:09 PM
To: Diane Galvan
Subject: TCLPs for Workorder 088420

Hi Diane,

Per our conversation, for Workorder No. 088420 please run TCLPs for the six samples with WET lead results over 5 mg/l on a 48-hour TAT.

Thanks,

Chris

****
Chris Giuntoli, CAC, REA
Geocon Consultants, Inc.
2356 Research Drive
Livermore, California 94550
925-371-5900, ext. 205 (office)
925-371-5915 (fax)
925-525-4204 (mobile)
****