FOR CONTRACT NO.: 04-3A9604

INFORMATION HANDOUT

MATERIALS INFORMATION

SITE INVESTIGATION REPORT

ROUTE: 04-Ala-580-R9.2 PM

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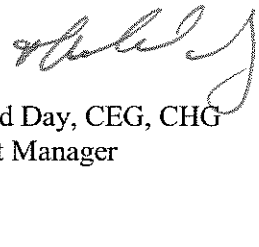
REPORT LIMITATIONS

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.

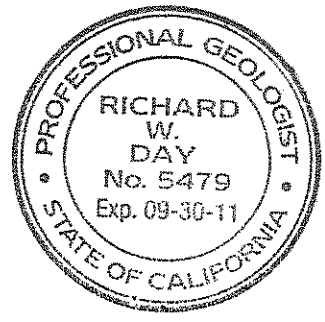
This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts 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.



Richard Day, CEG, CHG
Project Manager



CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 4
OFFICE OF ENVIRONMENTAL ENGINEERING

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PRELIMINARY SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Preliminary Site Investigation Report for the Interstate 580 (I-580) Eastbound Weigh Station project was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 04A3578 and Task Order No. 01 (TO-01), EA 04-3A9601.

1.1 Project Description and Proposed Improvements

The project location consists of Caltrans right-of-way (ROW) at the I-580 Eastbound Weigh Station between Vasco and Greenville Roads in Livermore, Alameda County, California. The investigation was conducted in the unpaved truck parking area prior to improvements that include replacing concrete pavement, resurfacing, and paving the truck parking area. The project location is depicted on the Vicinity Map, Figure 1.

1.2 General Objectives

The purpose of the site investigation was to evaluate concentrations of aerially deposited lead (ADL) and total petroleum hydrocarbons (TPH) in soil at the project location. Groundwater is not expected to be encountered during the proposed construction activities; therefore, no groundwater samples were collected.

ADL and TPH may be present at the project location primarily due to historic leaded fuel emissions from automobile exhausts. Lead poses risks related to inhalation, ingestion, and dermal contact with the material.

The information obtained from this investigation will be used by Caltrans to evaluate soil disposal costs and identify health and safety concerns.

2.0 BACKGROUND

2.1 Hazardous Waste Determination Criteria

Regulatory criteria to classify a waste as California hazardous for handling and disposal purposes are contained in the CCR, Title 22, Division 4.5, Chapter 11, Article 3, §66261.24. Criteria to classify a waste as Resource, Conservation, and Recovery Act (RCRA) hazardous are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste has the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

2.2 Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final* (May 2008), which presents Environmental Screening Levels (ESLs) for soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. The ESLs are conservative values for more than 100 commonly detected contaminants, which may be used to compare with environmental data collected at a site. ESLs are strictly risk assessment tools and "not regulatory clean up standards." The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is or "may be" warranted (SFRWQCB, 2008).

The most conservative ESL table was used for this characterization: Table A – Shallow Soil (≤3 meters below ground surface; bgs) – Groundwater is a Current or Potential Source of Drinking Water. The respective ESLs are listed at the end of Tables 2 and 3 for comparative purposes.

3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans under TO-01, EA 04-3A9601 included the following:

3.1 Pre-field Activities

- We used an existing site-specific *Health and Safety Plan* for a previous investigation along I-580, which provided guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Caltrans approved use of the Task Order prepared by the Caltrans TO Manager, dated March 14, 2011, as the workplan for the investigation activities.
- We provided a minimum of 48-hours notice to the local public utilities via Underground Service Alert prior to job site mobilization.
- We retained the services of Advanced Technology Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil samples.

3.2 Field Activities

The field investigation was performed on May 3, 2011, by Geocon staff. The following field activities were performed during the sampling efforts:

- Advanced six soil borings in the unpaved truck parking area at the Eastbound I-580 Weigh Station using hand-auger techniques. The borings were advanced to a maximum depth of 1.5 feet
- Collected twelve soil samples for selected analysis of CAM 17 metals, total lead, TPH, and pH
- Transported samples to ATL, a California-certified environmental laboratory for analysis under standard chain-of-custody (COC) documentation

4.0 INVESTIGATIVE METHODS

4.1 Sampling Procedures

Soil samples were collected from six boring locations identified in TO-01. Boring coordinates are presented on Table 1 and boring locations are shown on the Site Plan, Figure 2. The soil samples were collected in new stainless steel tubes sealed with Teflon tape and plastic end-caps. Sample containers were labeled and transported to Caltrans-approved, certified environmental laboratories using standard COC documentation. Soil borings were backfilled to surface with soil cuttings.

Geocon provided QA/QC procedures during the field activities. These procedures included washing the sampling equipment with a Liqui-Nox® solution followed by a double rinse with deionized water. Decontamination water was disposed of to the ground surface within Caltrans right-of-way in a manner not to create runoff, away from drain inlets or potential water bodies.

4.2 Laboratory Analyses

Laboratory analyses were performed under a standard five-day turnaround-time (TAT). The laboratory reports and COC documentation are included in Appendix A.
The soil samples were analyzed as follows:

- 6 samples for total lead using Environmental Protection Agency (EPA) Test Method 6010 ICAP
- 6 samples for CAM 17 metals according to Title 22 CCR, EPA Test Methods 6010 ICAP and 7471A
- 12 samples for TPH as gasoline (TPHg), TPH as diesel (TPHd), and TPH as motor oil (TPHmo) using EPA Method 8015B
- 2 samples for pH using EPA Method 9045

4.3 Laboratory QA/QC Procedures

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.

Prior to submitting the samples to the laboratory, the COC documentation was reviewed for accuracy and completeness.

5.0 INVESTIGATIVE RESULTS

5.1 Subsurface Conditions

Observations during field activities indicated that surface soil at the project location generally consists of brown, gravelly sand and silt. Groundwater was not encountered during the advancement of the soil borings.

5.2 Laboratory Analytical Results

The analytical results are summarized in Tables 2 and 3 and are summarized below:

- The following metals were not detected above their respective laboratory reporting limits in the samples: antimony, beryllium, cadmium, mercury, molybdenum, selenium, silver, and thallium.
- Lead was reported at concentrations ranging from 5.9 milligrams per kilogram (mg/kg) to 31 mg/kg.
- Remaining CAM 17 metals were reported in the samples at concentrations below ten times their respective STLCs.
- TPHg was not detected above the laboratory reporting limit of 1.0 mg/kg.
- TPHd was reported at concentrations ranging from 1.2 to 400 mg/kg.
- TPHmo was reported at concentrations ranging from 1.8 to 1,400 mg/kg
- pH was reported at 5.5 and 8.2

5.3 Laboratory QA/QC Results

We reviewed the QA/QC results provided with the laboratory analytical reports. The data indicate non-detect results for the method blanks.

Matrix spike and/or matrix spike duplicates (MS/MSDs) were outside recovery criteria for several of the analyses. The relative percent differences (RPDs) of the duplicate samples for a number of the analyses were outside criteria. Surrogate recovery was diluted out of several samples and was biased high for one sample "possibly due to matrix interferences." However, the case narrative in the laboratory report states that the analytical batch was validated by the laboratory control sample (LCS).The data showed acceptable recoveries and RPDs for the remainder of the duplicates and matrix spikes. Dilution was necessary for several analyses due to "sample matrix."

Based on this limited data review, no additional qualifications of the soil data are necessary, and the data are of sufficient quality for the purposes of this report.

6.0 CONCLUSIONS

6.1 CAM 17 Metals

Based on the total lead and CAM 17 metals results, soil excavated to a depth of 1.5 feet would be classified as non-hazardous since the concentrations are less than 50 mg/kg (i.e., less than ten times the lead STLC of 5.0 mg/l).

The CAM 17 metals concentrations in site soil were compared to ESLs (Table A, SFRWQCB, May 2008). Arsenic and vanadium were reported with concentrations greater than their respective ESL values in the soil samples collected at the site. Arsenic was detected in the samples at concentrations ranging from less than the laboratory reporting limit of 1.0 to mg/kg to 5.4 mg/kg, exceeding the residential land use ESL of 0.39 mg/kg and the commercial/industrial land use ESL of 1.6 mg/kg for shallow soil (≤3 meters; SFRWQCB, Table A). Vanadium was reported in the soil samples at concentrations between 17 and 49 mg/kg, exceeding the residential land use ESL of 16 mg/kg for shallow soil.

Upper one-sided 95% Upper Confidence Limits (UCLs) were calculated for the full set of arsenic and vanadium concentrations. Non-parametric bootstrap techniques were used to calculate the UCLs. For those samples in which arsenic was not detected, a value equal to one-half of the detection limit was used in the UCL calculation. The UCLs were compared with the residential and commercial/industrial land use ESLs and with published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996). The bootstrap results are included in Appendix B. The calculated standard bootstrap UCLs, ESLs and published background concentrations are summarized in the table below:

Metal	95% UCL	RESIDENTIAL ESL	COMMERCIAL/ INDUSTRIAL ESL	PUBLISHED BACKGROUND MEAN[1]	PUBLISHED BACKGROUND RANGE [1]
Arsenic	3.2	0.39	1.6	3.5	0.6 to 11.0
Vanadium	37.0	16	200	112	39 to 288

Concentrations reported in milligrams per kilogram (mg/kg)

[1] Kearney Foundation of Soil Science, March 1996

The 95% UCL value for arsenic in the soil samples collected at the Site is greater than the residential and commercial/industrial land use ESLs and within the published background range. The SFRWQCB *November 2007 Update to Environmental Screening Levels (ESLs) Technical Document* states that ambient background concentrations of arsenic typically exceed risk-based screening levels. In such instances, it may be more appropriate to compare site data to regionally specific established background levels.

The 95% UCL value for vanadium in the soil samples collected at the site is greater than the residential land use ESL. However, the 95% UCL for vanadium is less than the commercial/industrial land use ESL and less than the published background range.

Based on the reported arsenic and vanadium results, there may be restrictions on reuse and/or disposal options for excavated soil.

6.2 Total Petroleum Hydrocarbons

TPHd/mo impacts are generally located within the top one foot of soil. Three samples collected from the 0 to 0.5-foot depth interval and one sample from 1 to 1.5-foot depth interval had reported TPHd concentrations above the residential and commercial/industrial land use ESLs of 83 mg/kg. TPHmo was also reported in four samples from the 0 to 0.5-foot interval at concentrations above the residential land use ESL of 370 mg/kg. TPHmo was not reported in samples from the 1 to 1.5-foot interval at concentrations above the residential ESL.

We calculated 95% UCLs for the reported TPHd and TPHmo concentrations for each depth interval. The calculated UCLs and ESLs are presented in the below table

ANALYTE	DEPTH INTERVAL (feet)	95% UCL	RESIDENTIAL ESL	COMMERCIAL/ INDUSTRIAL ESL	CONSTRUCTION WORKER DIRECT EXPOSURE ESL
TPHd	0 to 0.5	266.9	83	83	4,200
	1 to 1.5	83.5			
TPHmo	0 to 0.5	1,096	370	2,500	12,000
	1 to 1.5	55.8			

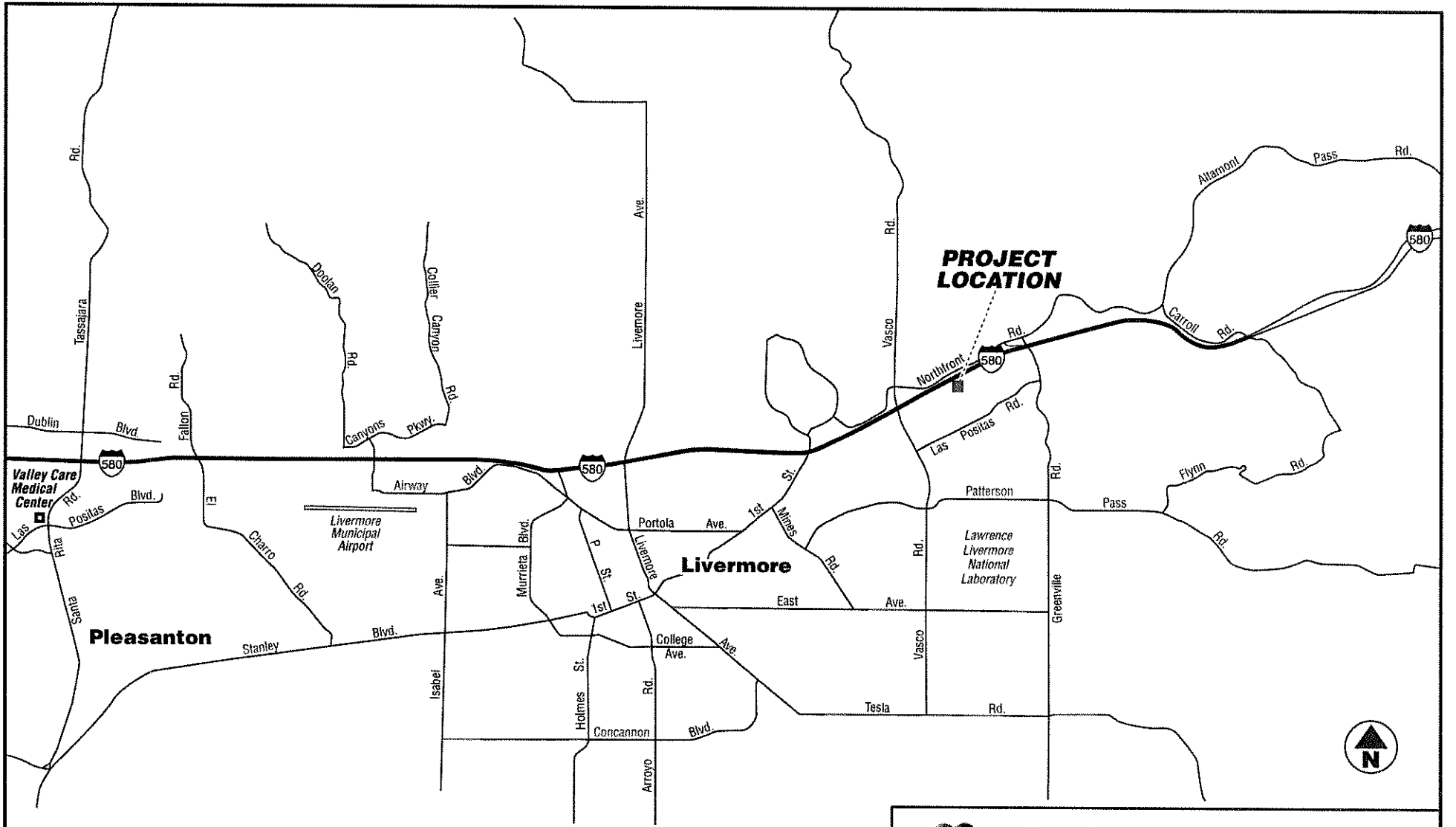
The calculated 95% UCL for TPHd for the 0 to 0.5-foot depth intervals exceeds the residential and commercial/industrial land use ESLs of 83 mg/kg. Additionally, the 95% UCL for TPHmo for the 0 to 0.5-foot dept interval exceeds the residential land use ESL of 370 mg/kg.

The 95% UCL for TPHd in the 1 to 1.5-foot depth interval (83.5 mg/kg) is nearly equivalent to the residential and commercial/industrial ESLs of 83 mg/kg. The 95% UCL for TPHmo in the 1 to 1.5 foot samples is less than the commercial/industrial exposure ESL.

Based on TPHd and TPHmo content, there may be onsite or offsite reuse restrictions.

6.3 Worker Protection

The contractor(s) should prepare a project-specific health and safety plan to prevent or minimize worker exposure to metals in soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of metals and petroleum hydrocarbons in soil.



GEOCON
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6671 BRISA STREET – LIVERMORE, CA 94550
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I-580 Eastbound Weigh Station

Livermore, Alameda County, California

VICINITY MAP

GEOCON Proj. No. E8560-06-01

Task Order No. 1, EA 04-3A9601 | June 2011 | Figure 1

GEOCON
CONSULTANTS, INC.
6671 BRISA STREET, LIVERMORE, CA 94550; PHONE 925 371-5900 - FAX 925 371-5915

I-580 at Eastbound Weigh Station

Livermore,
Alameda County,
California

SITE PLAN

GEOCON Proj. No. E8560-06-01 | June 2011 | Figure 2

SITE0611

TABLE 1
BORING COORDINATES
I-580 Eastbound Weigh Station Upgrades
Livermore, Alameda County, California

Boring	Northing	Easting
B1	2,084,483.995	6,210,986.207
B2	2,084,532.355	6,211,069.242
B3	2,084,579.007	6,211,141.593
B4	2,084,585.052	6,211,089.677
B5	2,084,617.630	6,211,131.342
B6	2,084,653.329	6,211,191.328

Coordinates are shown in feet, NAD 83 (Zone 3)

TABLE 2
SUMMARY OF CAM 17 METALS AND pH RESULTS
I-580 Eastbound Weigh Station Upgrades
Livermore, Alameda County, California

Sample ID	Sample Depth (ft)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	pH
B1-0	0	<2.0	2.3	130	<1.0	<1.0	22	7.8	24	15	<0.10	<1.0	28	<1.0	<1.0	<1.0	34	75	---
B1-1	1	---	---	---	---	---	---	---	---	7.8	---	---	---	---	---	---	---	---	---
B2-0	0	---	---	---	---	---	---	---	---	28	---	---	---	---	---	---	---	---	---
B2-1	1	<2.0	5.4	210	<1.0	<1.0	29	9.5	22	7.1	<0.10	<1.0	34	<1.0	<1.0	<1.0	49	44	5.5
B3-0	0	<2.0	<1.0	64	<1.0	<1.0	24	5.9	14	12	<0.10	<1.0	27	<1.0	<1.0	<1.0	22	56	---
B3-1	1	---	---	---	---	---	---	---	---	8.3	---	---	---	---	---	---	---	---	---
B4-0	0	---	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---
B4-1	1	<2.0	2.3	92	<1.0	<1.0	17	8.9	15	5.9	<0.10	<1.0	18	<1.0	<1.0	<1.0	34	28	---
B5-0	0	<2.0	1.3	86	<1.0	<1.0	17	5.7	15	11	<0.10	<1.0	26	<1.0	<1.0	<1.0	17	39	8.2
B5-1	1	---	---	---	---	---	---	---	---	31	---	---	---	---	---	---	---	---	---
B6-0	0	<2.0	<1.0	88	<1.0	<1.0	27	7.3	19	8.2	<0.10	<1.0	35	<1.0	<1.0	<1.0	25	50	---
B6-1	1	---	---	---	---	---	---	---	---	7.4	---	---	---	---	---	---	---	---	---
Environmental Screening Levels																			
Residential Land Use		6.3	0.39	750	4.0	1.7	750	40	230	200	1.3	40	150	10	20	1.3	16	600	---
Comm/Ind Land Use		40	1.6	1500	8.0	7.4	750	80	230	750	10	40	150	10	40	16	200	600	---
Construction/Trench Worker		310	15	2,600	98	39	1.2E+06	94	3.1E+05	750	58	3,900	260	3,900	3,900	62	770	2.3E+05	---

Notes:

Results are shown in milligrams per kilogram (mg/kg).

< = Analyte was not detected above the laboratory reporting limit.

--- = Not analyzed or no standard

ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, May 2008.

ESL values listed for chromium are for Chromium III, as there is no standard for total chromium.

TABLE 3
SUMMARY OF TOTAL PETROLEUM HYDROCARBONS RESULTS
I-580 Eastbound Weigh Station Upgrades
Livermore, Alameda County, California

Sample ID	Sample Depth (ft)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
B1-0	0	<1.0	270	1,400
B1-1	1	<1.0	2.0	4.2
B2-0	0	<1.0	240	900
B2-1	1	<1.0	<1.0	1.8
B3-0	0	<1.0	400	1,400
B3-1	1	<1.0	2.3	5.6
B4-0	0	<1.0	37	470
B4-1	1	<1.0	1.2	2.5
B5-0	0	<1.0	59	180
B5-1	1	<1.0	200	130
B6-0	0	<1.0	46	270
B6-1	1	<1.0	<1.0	<1.0
Environmental Screening Levels				
Residential Land Use		83	83	370
Commercial/Industrial Land Use		83	83	2,500
Construction/Trench Worker		4,200	4,200	12,000

Notes:

TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
TPHmo = Total petroleum hydrocarbons as motor oil
mg/kg = milligrams per kilogram
< = Not detected above the stated laboratory reporting limit
ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, May 2008.

May 13, 2011

Chris Merritt\Lauren Vigliotti
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117683

RE: I 580 TRUCK SCALE, E8560-06-01

Attention: Chris Merritt\Lauren Vigliotti

Enclosed are the results for sample(s) received on May 04, 2011 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: I 580 TRUCK SCALE, E8560-06-01
Lab Order: 117683

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 117683-005ADUP, 117686-005ADUP and 117686-015ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 8015 (DRO/ORO)

Dilution was necessary for samples 117683-001A, 117683-003A, 117683-005A, 117683-007A, 117683-009A, 117683-010A and 117683-011A, due to sample matrix.

Surrogate recovery was diluted out for samples 117683-001A, 117683-001ADUP, 117683-003A, 117683-005A, 117683-007A, 117683-009A, 117683-011A, 117683-011ADUP, 117737-005AMS and 117737-005AMSD.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 117737-005AMS and 117737-005AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

RPD for Duplicate (DUP) is outside criteria for sample 117683-011ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 8015 (GRO)

Surrogate recovery biased high for sample 117683-012AMS, possibly due to matrix interferences.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/13/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117683
Project:	I 580 TRUCK SCALE, E8560-06-01	**Date Received**	5/4/2011 11:47:00 AM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
117683-002A	B1-1	7.8	mg/Kg	72716	5.0	1	5/3/2011	5/9/2011
117683-003A	B2-0	28	mg/Kg	72716	5.0	1	5/3/2011	5/9/2011
117683-006A	B3-1	8.3	mg/Kg	72716	5.0	1	5/3/2011	5/9/2011
117683-007A	B4-0	12	mg/Kg	72716	5.0	1	5/3/2011	5/9/2011
117683-010A	B5-1	31	mg/Kg	72716	5.0	1	5/3/2011	5/9/2011
117683-012A	B6-1	7.4	mg/Kg	72717	5.0	1	5/3/2011	5/9/2011

Qualifiers:

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

Advanced Technology Laboratories

Date: 5/13/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117683
Project:	I 580 TRUCK SCALE, E8560-06-01	**Date Received**	5/4/2011 11:47:00 AM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
117683-004A	B2-1	5.5	pH Units	R132795	0.10	1	5/3/2011	5/10/2011
117683-009A	B5-0	8.2	pH Units	R132795	0.10	1	5/3/2011	5/10/2011

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		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-0
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110509G	QC Batch: 72723			PrepDate:	5/9/2011	Analyst: **IL**
Antimony	ND	2.0		mg/Kg	1	5/9/2011 06:26 PM
Arsenic	2.3	1.0		mg/Kg	1	5/9/2011 06:26 PM
Barium	130	1.0		mg/Kg	1	5/9/2011 06:26 PM
Beryllium	ND	1.0		mg/Kg	1	5/9/2011 06:26 PM
Cadmium	ND	1.0		mg/Kg	1	5/9/2011 06:26 PM
Chromium	22	1.0		mg/Kg	1	5/9/2011 06:26 PM
Cobalt	7.8	1.0		mg/Kg	1	5/9/2011 06:26 PM
Copper	24	2.0		mg/Kg	1	5/9/2011 06:26 PM
Lead	15	1.0		mg/Kg	1	5/9/2011 06:26 PM
Molybdenum	ND	1.0		mg/Kg	1	5/9/2011 06:26 PM
Nickel	28	1.0		mg/Kg	1	5/9/2011 06:26 PM
Selenium	ND	1.0		mg/Kg	1	5/9/2011 06:26 PM
Silver	ND	1.0		mg/Kg	1	5/9/2011 06:26 PM
Thallium	ND	1.0		mg/Kg	1	5/9/2011 06:26 PM
Vanadium	34	1.0		mg/Kg	1	5/9/2011 06:26 PM
Zinc	75	1.0		mg/Kg	1	5/9/2011 06:26 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	270	20		mg/Kg	2	5/12/2011 06:15 PM
ORO	1400	20		mg/Kg	2	5/12/2011 06:15 PM
Surr: p-Terphenyl	0	30-128	SDO	%REC	2	5/12/2011 06:15 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509A	QC Batch: E11VS185			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 02:42 PM
Surr: Bromofluorobenzene (FID)	126	62-153		%REC	1	5/9/2011 02:42 PM
MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_110509D	QC Batch: 72726			PrepDate:	5/9/2011	Analyst: **admin**
Mercury	ND	0.10		mg/Kg	1	5/9/2011 04:51 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B1-1
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	2.0	1.0		mg/Kg	1	5/12/2011 05:53 PM
ORO	4.2	1.0		mg/Kg	1	5/12/2011 05:53 PM
Surr: p-Terphenyl	78.7	30-128		%REC	1	5/12/2011 05:53 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509A	QC Batch: E11VS185			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 02:57 PM
Surr: Bromofluorobenzene (FID)	128	62-153		%REC	1	5/9/2011 02:57 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B2-0
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: CBR
DRO	240	12		mg/Kg	2	5/12/2011 06:36 PM
ORO	900	12		mg/Kg	2	5/12/2011 06:36 PM
Surr: p-Terphenyl	0	30-128	SDO	%REC	2	5/12/2011 06:36 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: TP
GRO	ND	1.0		mg/Kg	1	5/9/2011 07:26 PM
Surr: Bromofluorobenzene (FID)	133	62-153		%REC	1	5/9/2011 07:26 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B2-1
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110509G	QC Batch: 72723			PrepDate:	5/9/2011	Analyst: **IL**
Antimony	ND	2.0		mg/Kg	1	5/9/2011 06:29 PM
Arsenic	5.4	1.0		mg/Kg	1	5/9/2011 06:29 PM
Barium	210	1.0		mg/Kg	1	5/9/2011 06:29 PM
Beryllium	ND	1.0		mg/Kg	1	5/9/2011 06:29 PM
Cadmium	ND	1.0		mg/Kg	1	5/9/2011 06:29 PM
Chromium	29	1.0		mg/Kg	1	5/9/2011 06:29 PM
Cobalt	9.5	1.0		mg/Kg	1	5/9/2011 06:29 PM
Copper	22	2.0		mg/Kg	1	5/9/2011 06:29 PM
Lead	7.1	1.0		mg/Kg	1	5/9/2011 06:29 PM
Molybdenum	ND	1.0		mg/Kg	1	5/9/2011 06:29 PM
Nickel	34	1.0		mg/Kg	1	5/9/2011 06:29 PM
Selenium	ND	1.0		mg/Kg	1	5/9/2011 06:29 PM
Silver	ND	1.0		mg/Kg	1	5/9/2011 06:29 PM
Thallium	ND	1.0		mg/Kg	1	5/9/2011 06:29 PM
Vanadium	49	1.0		mg/Kg	1	5/9/2011 06:29 PM
Zinc	44	1.0		mg/Kg	1	5/9/2011 06:29 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	ND	1.0		mg/Kg	1	5/12/2011 05:14 PM
ORO	1.8	1.0		mg/Kg	1	5/12/2011 05:14 PM
Surr: p-Terphenyl	89.0	30-128		%REC	1	5/12/2011 05:14 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 07:42 PM
Surr: Bromofluorobenzene (FID)	121	62-153		%REC	1	5/9/2011 07:42 PM
MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_110509D	QC Batch: 72726			PrepDate:	5/9/2011	Analyst: **admin**
Mercury	ND	0.10		mg/Kg	1	5/9/2011 05:07 PM

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

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-0
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110509G	QC Batch: 72723			PrepDate:	5/9/2011	Analyst: **IL**
Antimony	ND	2.0		mg/Kg	1	5/9/2011 06:50 PM
Arsenic	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Barium	64	1.0		mg/Kg	1	5/9/2011 06:50 PM
Beryllium	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Cadmium	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Chromium	24	1.0		mg/Kg	1	5/9/2011 06:50 PM
Cobalt	5.9	1.0		mg/Kg	1	5/9/2011 06:50 PM
Copper	14	2.0		mg/Kg	1	5/9/2011 06:50 PM
Lead	12	1.0		mg/Kg	1	5/9/2011 06:50 PM
Molybdenum	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Nickel	27	1.0		mg/Kg	1	5/9/2011 06:50 PM
Selenium	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Silver	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Thallium	ND	1.0		mg/Kg	1	5/9/2011 06:50 PM
Vanadium	22	1.0		mg/Kg	1	5/9/2011 06:50 PM
Zinc	56	1.0		mg/Kg	1	5/9/2011 06:50 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	400	20		mg/Kg	2	5/12/2011 06:56 PM
ORO	1400	20		mg/Kg	2	5/12/2011 06:56 PM
Surr: p-Terphenyl	0	30-128	SDO	%REC	2	5/12/2011 06:56 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 07:58 PM
Surr: Bromofluorobenzene (FID)	123	62-153		%REC	1	5/9/2011 07:58 PM
MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_110509D	QC Batch: 72726			PrepDate:	5/9/2011	Analyst: **admin**
Mercury	ND	0.10		mg/Kg	1	5/9/2011 04:57 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B3-1
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	2.3	1.0		mg/Kg	1	5/12/2011 05:33 PM
ORO	5.6	1.0		mg/Kg	1	5/12/2011 05:33 PM
Surr: p-Terphenyl	74.5	30-128		%REC	1	5/12/2011 05:33 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 08:13 PM
Surr: Bromofluorobenzene (FID)	126	62-153		%REC	1	5/9/2011 08:13 PM

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		

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-0
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-007A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749				PrepDate: 5/10/2011	Analyst: CBR
DRO	37	12		mg/Kg	2	5/12/2011 06:46 PM
ORO	470	12		mg/Kg	2	5/12/2011 06:46 PM
Surr: p-Terphenyl	0	30-128	SDO	%REC	2	5/12/2011 06:46 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186				PrepDate:	Analyst: TP
GRO	ND	1.0		mg/Kg	1	5/9/2011 08:29 PM
Surr: Bromofluorobenzene (FID)	124	62-153		%REC	1	5/9/2011 08:29 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B4-1
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-008A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110509E	QC Batch: 72724			PrepDate:	5/9/2011	Analyst: **IL**
Antimony	ND	2.0		mg/Kg	1	5/9/2011 04:10 PM
Arsenic	2.3	1.0		mg/Kg	1	5/9/2011 04:10 PM
Barium	92	1.0		mg/Kg	1	5/9/2011 04:10 PM
Beryllium	ND	1.0		mg/Kg	1	5/9/2011 04:10 PM
Cadmium	ND	1.0		mg/Kg	1	5/9/2011 04:10 PM
Chromium	17	1.0		mg/Kg	1	5/9/2011 04:10 PM
Cobalt	8.9	1.0		mg/Kg	1	5/9/2011 04:10 PM
Copper	15	2.0		mg/Kg	1	5/9/2011 04:10 PM
Lead	5.9	1.0		mg/Kg	1	5/9/2011 04:10 PM
Molybdenum	ND	1.0		mg/Kg	1	5/9/2011 04:10 PM
Nickel	18	1.0		mg/Kg	1	5/9/2011 04:10 PM
Selenium	ND	1.0		mg/Kg	1	5/9/2011 04:10 PM
Silver	ND	1.0		mg/Kg	1	5/9/2011 04:10 PM
Thallium	ND	1.0		mg/Kg	1	5/9/2011 04:10 PM
Vanadium	34	1.0		mg/Kg	1	5/9/2011 04:10 PM
Zinc	28	1.0		mg/Kg	1	5/9/2011 04:10 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	1.2	1.0		mg/Kg	1	5/12/2011 05:23 PM
ORO	2.5	1.0		mg/Kg	1	5/12/2011 05:23 PM
Surr: p-Terphenyl	71.0	30-128		%REC	1	5/12/2011 05:23 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 08:45 PM
Surr: Bromofluorobenzene (FID)	121	62-153		%REC	1	5/9/2011 08:45 PM
MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_110509D	QC Batch: 72726			PrepDate:	5/9/2011	Analyst: **admin**
Mercury	ND	0.10		mg/Kg	1	5/9/2011 04:59 PM

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

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-0
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-009A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110509E	QC Batch: 72724			PrepDate:	5/9/2011	Analyst: **IL**
Antimony	ND	2.0		mg/Kg	1	5/9/2011 04:13 PM
Arsenic	1.3	1.0		mg/Kg	1	5/9/2011 04:13 PM
Barium	86	1.0		mg/Kg	1	5/9/2011 04:13 PM
Beryllium	ND	1.0		mg/Kg	1	5/9/2011 04:13 PM
Cadmium	ND	1.0		mg/Kg	1	5/9/2011 04:13 PM
Chromium	17	1.0		mg/Kg	1	5/9/2011 04:13 PM
Cobalt	5.7	1.0		mg/Kg	1	5/9/2011 04:13 PM
Copper	15	2.0		mg/Kg	1	5/9/2011 04:13 PM
Lead	11	1.0		mg/Kg	1	5/9/2011 04:13 PM
Molybdenum	ND	1.0		mg/Kg	1	5/9/2011 04:13 PM
Nickel	26	1.0		mg/Kg	1	5/9/2011 04:13 PM
Selenium	ND	1.0		mg/Kg	1	5/9/2011 04:13 PM
Silver	ND	1.0		mg/Kg	1	5/9/2011 04:13 PM
Thallium	ND	1.0		mg/Kg	1	5/9/2011 04:13 PM
Vanadium	17	1.0		mg/Kg	1	5/9/2011 04:13 PM
Zinc	39	1.0		mg/Kg	1	5/9/2011 04:13 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	59	4.0		mg/Kg	2	5/12/2011 06:05 PM
ORO	180	4.0		mg/Kg	2	5/12/2011 06:05 PM
Surr: p-Terphenyl	0	30-128	SDO	%REC	2	5/12/2011 06:05 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 09:01 PM
Surr: Bromofluorobenzene (FID)	124	62-153		%REC	1	5/9/2011 09:01 PM
MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_110509D	QC Batch: 72726			PrepDate:	5/9/2011	Analyst: **admin**
Mercury	ND	0.10		mg/Kg	1	5/9/2011 05:01 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B5-1
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-010A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
EPA 3550B				**EPA 8015B(M)**		
RunID: GC16_110510A	QC Batch: 72749			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	200	2.0		mg/Kg	2	5/12/2011 05:43 PM
ORO	130	2.0		mg/Kg	2	5/12/2011 05:43 PM
Surr: p-Terphenyl	54.8	30-128		%REC	2	5/12/2011 05:43 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 09:17 PM
Surr: Bromofluorobenzene (FID)	122	62-153		%REC	1	5/9/2011 09:17 PM

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 Difuted Out		

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-0
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-011A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110509E	QC Batch: 72724			PrepDate:	5/9/2011	Analyst: **IL**
Antimony	ND	2.0		mg/Kg	1	5/9/2011 04:16 PM
Arsenic	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Barium	88	1.0		mg/Kg	1	5/9/2011 04:16 PM
Beryllium	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Cadmium	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Chromium	27	1.0		mg/Kg	1	5/9/2011 04:16 PM
Cobalt	7.3	1.0		mg/Kg	1	5/9/2011 04:16 PM
Copper	19	2.0		mg/Kg	1	5/9/2011 04:16 PM
Lead	8.2	1.0		mg/Kg	1	5/9/2011 04:16 PM
Molybdenum	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Nickel	35	1.0		mg/Kg	1	5/9/2011 04:16 PM
Selenium	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Silver	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Thallium	ND	1.0		mg/Kg	1	5/9/2011 04:16 PM
Vanadium	25	1.0		mg/Kg	1	5/9/2011 04:16 PM
Zinc	50	1.0		mg/Kg	1	5/9/2011 04:16 PM
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110511A	QC Batch: 72786			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	46	12		mg/Kg	2	5/11/2011 01:46 PM
ORO	270	12		mg/Kg	2	5/11/2011 01:46 PM
Surr: p-Terphenyl	0	30-128	SDO	%REC	2	5/11/2011 01:46 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 09:33 PM
Surr: Bromofluorobenzene (FID)	126	62-153		%REC	1	5/9/2011 09:33 PM
MERCURY BY COLD VAPOR TECHNIQUE						
				EPA 7471A		
RunID: AA1_110509D	QC Batch: 72726			PrepDate:	5/9/2011	Analyst: **admin**
Mercury	ND	0.10		mg/Kg	1	5/9/2011 05:09 PM

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

ANALYTICAL RESULTS

Print Date: *13-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	B6-1
Lab Order:	117683	**Collection Date:**	5/3/2011
Project:	I 580 TRUCK SCALE, E8560-06-01	**Matrix:**	SOIL
Lab ID:	117683-012A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID						
	EPA 3550B			**EPA 8015B(M)**		
RunID: GC16_110511A	QC Batch: 72786			PrepDate:	5/10/2011	Analyst: **CBR**
DRO	ND	1.0		mg/Kg	1	5/11/2011 12:14 PM
ORO	ND	1.0		mg/Kg	1	5/11/2011 12:14 PM
Surr: p-Terphenyl	42.5	30-128		%REC	1	5/11/2011 12:14 PM
GASOLINE RANGE ORGANICS BY GC/FID						
				EPA 8015B(M)		
RunID: GC2_110509B	QC Batch: E11VS186			PrepDate:		Analyst: **TP**
GRO	ND	1.0		mg/Kg	1	5/9/2011 09:48 PM
Surr: Bromofluorobenzene (FID)	123	62-153		%REC	1	5/9/2011 09:48 PM

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		

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-72723** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/9/2011** RunNo: **132765**
Client ID: **PBS** Batch ID: **72723** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/9/2011** SeqNo: **2164043**

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-72723** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/9/2011** RunNo: **132765**
Client ID: **LCSS** Batch ID: **72723** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/9/2011** SeqNo: **2164044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	48.719	2.0	50.00	0	97.4	80	120				
Arsenic	47.705	1.0	50.00	0	95.4	80	120				
Barium	50.312	1.0	50.00	0	101	80	120				
Beryllium	49.777	1.0	50.00	0	99.6	80	120				
Cadmium	48.717	1.0	50.00	0	97.4	80	120				
Chromium	45.225	1.0	50.00	0	90.4	80	120				
Cobalt	48.790	1.0	50.00	0	97.6	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-72723	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132765
Client ID: LCSS	Batch ID: 72723	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	50.047	2.0	50.00	0	100	80	120				
Lead	49.314	1.0	50.00	0	98.6	80	120				
Molybdenum	50.670	1.0	50.00	0	101	80	120				
Nickel	48.942	1.0	50.00	0	97.9	80	120				
Selenium	45.470	1.0	50.00	0	90.9	80	120				
Silver	47.691	1.0	50.00	0	95.4	80	120				
Thallium	47.543	1.0	50.00	0	95.1	80	120				
Vanadium	50.257	1.0	50.00	0	101	80	120				
Zinc	50.186	1.0	50.00	0	100	80	120				

Sample ID: 117683-004A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132765
Client ID: B2-1	Batch ID: 72723	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164054

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.883	2.0						1.103	0	20	
Arsenic	5.436	1.0						5.414	0.411	20	
Barium	194.079	1.0						212.8	9.18	20	
Beryllium	0.391	1.0						0.3774	0	20	
Cadmium	0.594	1.0						0.6040	0	20	
Chromium	27.977	1.0						28.76	2.77	20	
Cobalt	8.944	1.0						9.511	6.15	20	
Copper	20.905	2.0						21.54	3.01	20	
Lead	6.857	1.0						7.061	2.93	20	
Molybdenum	ND	1.0						0	0	20	
Nickel	33.380	1.0						34.42	3.08	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	47.418	1.0						48.57	2.40	20	
Zinc	42.848	1.0						44.19	3.08	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **117683-004A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/9/2011** RunNo: **132765**
Client ID: **B2-1** Batch ID: **72723** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/9/2011** SeqNo: **2164055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	90.250	2.0	125.0	1.103	71.3	32	105				
Arsenic	96.766	1.0	125.0	5.414	73.1	49	106				
Barium	366.334	1.0	125.0	212.8	123	31	133				
Beryllium	97.912	1.0	125.0	0.3774	78.0	56	106				
Cadmium	94.345	1.0	125.0	0.6040	75.0	51	103				
Chromium	117.459	1.0	125.0	28.76	71.0	45	114				
Cobalt	104.665	1.0	125.0	9.511	76.1	52	106				
Copper	126.364	2.0	125.0	21.54	83.9	54	125				
Lead	99.571	1.0	125.0	7.061	74.0	34	126				
Molybdenum	94.989	1.0	125.0	0	76.0	54	106				
Nickel	130.802	1.0	125.0	34.42	77.1	45	111				
Selenium	88.727	1.0	125.0	0	71.0	47	104				
Silver	100.091	1.0	125.0	0	80.1	56	112				
Thallium	88.286	1.0	125.0	0	70.6	46	101				
Vanadium	144.521	1.0	125.0	48.57	76.8	54	114				
Zinc	133.045	1.0	125.0	44.19	71.1	28	125				

Sample ID: **117683-004A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/9/2011** RunNo: **132765**
Client ID: **B2-1** Batch ID: **72723** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/9/2011** SeqNo: **2164056**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	90.965	2.0	125.0	1.103	71.9	32	105	90.25	0.789	20	
Arsenic	97.819	1.0	125.0	5.414	73.9	49	106	96.77	1.08	20	
Barium	301.898	1.0	125.0	212.8	71.3	31	133	366.3	19.3	20	
Beryllium	100.119	1.0	125.0	0.3774	79.8	56	106	97.91	2.23	20	
Cadmium	95.374	1.0	125.0	0.6040	75.8	51	103	94.35	1.08	20	
Chromium	119.277	1.0	125.0	28.76	72.4	45	114	117.5	1.54	20	
Cobalt	105.236	1.0	125.0	9.511	76.6	52	106	104.7	0.544	20	
Copper	128.411	2.0	125.0	21.54	85.5	54	125	126.4	1.61	20	
Lead	99.514	1.0	125.0	7.061	74.0	34	126	99.57	0.0571	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 117683-004A-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132765
Client ID: B2-1	Batch ID: 72723	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164056

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	94.817	1.0	125.0	0	75.9	54	106	94.99	0.181	20	
Nickel	128.086	1.0	125.0	34.42	74.9	45	111	130.8	2.10	20	
Selenium	88.722	1.0	125.0	0	71.0	47	104	88.73	0.00546	20	
Silver	100.904	1.0	125.0	0	80.7	56	112	100.1	0.809	20	
Thallium	88.669	1.0	125.0	0	70.9	46	101	88.29	0.432	20	
Vanadium	146.722	1.0	125.0	48.57	78.5	54	114	144.5	1.51	20	
Zinc	135.124	1.0	125.0	44.19	72.7	28	125	133.0	1.55	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-72724	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132762
Client ID: PBS	Batch ID: 72724	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164001

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.284	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-72724	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132762
Client ID: LCSS	Batch ID: 72724	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164002

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	48.888	2.0	50.00	0.2835	97.2	80	120				
Arsenic	48.172	1.0	50.00	0	96.3	80	120				
Barium	51.160	1.0	50.00	0	102	80	120				
Beryllium	50.936	1.0	50.00	0	102	80	120				
Cadmium	49.580	1.0	50.00	0	99.2	80	120				
Chromium	46.098	1.0	50.00	0	92.2	80	120				
Cobalt	49.736	1.0	50.00	0	99.5	80	120				
Copper	50.946	2.0	50.00	0	102	80	120				
Lead	50.014	1.0	50.00	0	100	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: LCS-72724	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132762
Client ID: LCSS	Batch ID: 72724	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164002

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	51.226	1.0	50.00	0	102	80	120				
Nickel	49.929	1.0	50.00	0	99.9	80	120				
Selenium	45.821	1.0	50.00	0	91.6	80	120				
Silver	48.413	1.0	50.00	0	96.8	80	120				
Thallium	48.123	1.0	50.00	0	96.2	80	120				
Vanadium	51.313	1.0	50.00	0	103	80	120				
Zinc	51.118	1.0	50.00	0	102	80	120				

Sample ID: 117686-005A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132762
Client ID: ZZZZZZ	Batch ID: 72724	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164009

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.501	2.0						0.4562	0	20	
Arsenic	0.319	1.0						0.4205	0	20	
Barium	51.331	1.0						58.75	13.5	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	0.689	1.0						0.8229	0	20	
Chromium	9.661	1.0						10.62	9.42	20	
Cobalt	4.514	1.0						5.032	10.8	20	
Copper	13.027	2.0						14.46	10.5	20	
Lead	37.728	1.0						30.84	20.1	20	R
Molybdenum	0.444	1.0						0.7382	0	20	
Nickel	12.212	1.0						13.54	10.3	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	23.953	1.0						25.66	6.87	20	
Zinc	61.836	1.0						69.86	12.2	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I.580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 117686-005A-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132762
Client ID: ZZZZZZ	Batch ID: 72724	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164010

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.474	2.0	125.0	0.4562	79.2	32	105				
Arsenic	104.870	1.0	125.0	0.4205	83.6	49	106				
Barium	163.178	1.0	125.0	58.75	83.5	31	133				
Beryllium	106.931	1.0	125.0	0	85.5	56	106				
Cadmium	104.921	1.0	125.0	0.8229	83.3	51	103				
Chromium	111.687	1.0	125.0	10.62	80.9	45	114				
Cobalt	110.266	1.0	125.0	5.032	84.2	52	106				
Copper	129.623	2.0	125.0	14.46	92.1	54	125				
Lead	133.669	1.0	125.0	30.84	82.3	34	126				
Molybdenum	108.076	1.0	125.0	0.7382	85.9	54	106				
Nickel	117.458	1.0	125.0	13.54	83.1	45	111				
Selenium	100.728	1.0	125.0	0	80.6	47	104				
Silver	107.567	1.0	125.0	0	86.1	56	112				
Thallium	95.847	1.0	125.0	0	76.7	46	101				
Vanadium	135.017	1.0	125.0	25.66	87.5	54	114				
Zinc	168.448	1.0	125.0	69.86	78.9	28	125				

Sample ID: 117686-005A-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132762
Client ID: ZZZZZZ	Batch ID: 72724	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/9/2011	SeqNo: 2164011

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	103.105	2.0	125.0	0.4562	82.1	32	105	99.47	3.58	20	
Arsenic	108.170	1.0	125.0	0.4205	86.2	49	106	104.9	3.10	20	
Barium	169.505	1.0	125.0	58.75	88.6	31	133	163.2	3.80	20	
Beryllium	111.334	1.0	125.0	0	89.1	56	106	106.9	4.04	20	
Cadmium	108.371	1.0	125.0	0.8229	86.0	51	103	104.9	3.23	20	
Chromium	113.982	1.0	125.0	10.62	82.7	45	114	111.7	2.03	20	
Cobalt	113.582	1.0	125.0	5.032	86.8	52	106	110.3	2.96	20	
Copper	131.395	2.0	125.0	14.46	93.5	54	125	129.6	1.36	20	
Lead	137.892	1.0	125.0	30.84	85.6	34	126	133.7	3.11	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **117686-005A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/9/2011** RunNo: **132762**
Client ID: **ZZZZZZ** Batch ID: **72724** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/9/2011** SeqNo: **2164011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	111.429	1.0	125.0	0.7382	88.6	54	106	108.1	3.05	20	
Nickel	120.460	1.0	125.0	13.54	85.5	45	111	117.5	2.52	20	
Selenium	104.514	1.0	125.0	0	83.6	47	104	100.7	3.69	20	
Silver	110.797	1.0	125.0	0	88.6	56	112	107.6	2.96	20	
Thallium	99.041	1.0	125.0	0	79.2	46	101	95.85	3.28	20	
Vanadium	140.617	1.0	125.0	25.66	92.0	54	114	135.0	4.06	20	
Zinc	170.189	1.0	125.0	69.86	80.3	28	125	168.4	1.03	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-72716A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: PBS	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163607

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.242	5.0									

Sample ID: LCS-72716	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: LCSS	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163608

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	274.738	5.0	250.0	0.2423	110	80	120				

Sample ID: 117668-010A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: ZZZZZZ	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163619

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.127	5.0						2.733	0	20	

Sample ID: 117668-010A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: ZZZZZZ	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163620

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	223.041	5.0	250.0	2.733	88.1	34	126				

Sample ID: MB-72716B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: PBS	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163621

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: 117683-010A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: B5-1	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163632

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	20.569	5.0						30.69	39.5	20	R

Sample ID: 117683-010A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: B5-1	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163633

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	246.345	5.0	250.0	30.69	86.3	34	126				

Sample ID: 117683-010A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132747
Client ID: B5-1	Batch ID: 72716	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163634

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	236.337	5.0	250.0	30.69	82.3	34	126	246.3	4.15	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-72717A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: PBS	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163661

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-72717	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: LCSS	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163662

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	256.366	5.0	250.0	0	103	80	120				

Sample ID: 117686-015A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: ZZZZZZ	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163673

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	12.226	5.0						0.9817	170	20	R

Sample ID: 117686-015A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: ZZZZZZ	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163674

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224.352	5.0	250.0	0.9817	89.3	34	126				

Sample ID: MB-72717B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: PBS	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: 117689-006A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: ZZZZZZ	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163686

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.310	5.0						2.389	0	20	

Sample ID: 117689-006A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: ZZZZZZ	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163687

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	197.793	5.0	250.0	2.389	78.2	34	126				

Sample ID: 117689-006A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132748
Client ID: ZZZZZZ	Batch ID: 72717	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 5/9/2011	SeqNo: 2163688

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	212.372	5.0	250.0	2.389	84.0	34	126	197.8	7.11	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-72726	SampType: MBLK	TestCode: 7471_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132769
Client ID: PBS	Batch ID: 72726	TestNo: EPA 7471A		Analysis Date: 5/9/2011	SeqNo: 2164171

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

Sample ID: LCS-72726	SampType: LCS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132769
Client ID: LCSS	Batch ID: 72726	TestNo: EPA 7471A		Analysis Date: 5/9/2011	SeqNo: 2164172

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.772	0.10	0.8300	0	93.0	80	120				

Sample ID: 117686-001A-MS	SampType: MS	TestCode: 7471_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132769
Client ID: ZZZZZZ	Batch ID: 72726	TestNo: EPA 7471A		Analysis Date: 5/9/2011	SeqNo: 2164173

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.800	0.10	0.8300	0.03258	92.5	70	130				

Sample ID: 117686-001A-MSD	SampType: MSD	TestCode: 7471_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132769
Client ID: ZZZZZZ	Batch ID: 72726	TestNo: EPA 7471A		Analysis Date: 5/9/2011	SeqNo: 2164174

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.794	0.10	0.8300	0.03258	91.7	70	130	0.8003	0.830	20	

Sample ID: 117686-001A-DUP	SampType: DUP	TestCode: 7471_S	Units: mg/Kg	Prep Date: 5/9/2011	RunNo: 132769
Client ID: ZZZZZZ	Batch ID: 72726	TestNo: EPA 7471A		Analysis Date: 5/9/2011	SeqNo: 2164176

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.033	0.10						0.03258	0	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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: MB-72749	SampType: MBLK	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132792
Client ID: PBS	Batch ID: 72749	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/10/2011	SeqNo: 2164585

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									
Surr: p-Terphenyl	1.494		2.670		56.0	30	128				

Sample ID: LCS-72749	SampType: LCS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132792
Client ID: LCSS	Batch ID: 72749	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/10/2011	SeqNo: 2164586

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	17.614	1.0	33.00	0	53.4	35	118				
Surr: p-Terphenyl	1.500		2.670		56.2	30	128				

Sample ID: 117753-001AMS	SampType: MS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132792
Client ID: ZZZZZZ	Batch ID: 72749	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/10/2011	SeqNo: 2164588

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	22.328	1.0	33.00	9.153	39.9	25	129				
Surr: p-Terphenyl	1.482		2.670		55.5	30	128				

Sample ID: 117753-001AMSD	SampType: MSD	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132792
Client ID: ZZZZZZ	Batch ID: 72749	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/10/2011	SeqNo: 2164589

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	20.676	1.0	33.00	9.153	34.9	25	129	22.33	7.68	20	
Surr: p-Terphenyl	1.277		2.670		47.8	30	128		0	0	

Sample ID: 117683-001ADUP	SampType: DUP	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132792
Client ID: B1-0	Batch ID: 72749	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/12/2011	SeqNo: 2167197

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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: **117683-001ADUP** SampType: **DUP** TestCode: **8015_S_DM L** Units: **mg/Kg** Prep Date: **5/10/2011** RunNo: **132792**
Client ID: **B1-0** Batch ID: **72749** TestNo: **EPA 8015B(M EPA 3550B** Analysis Date: **5/12/2011** SeqNo: **2167197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	263.867	20						265.1	0.461	20	
ORO	1435.493	20						1403	2.31	20	
Surr: p-Terphenyl	0		2.670		0	30	128		0	0	SDO

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: LCS-72786	SampType: LCS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132828
Client ID: LCSS	Batch ID: 72786	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/11/2011	SeqNo: 2165464

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	22.370	1.0	33.00	0	67.8	35	118				
Surr: p-Terphenyl	1.640		2.670		61.4	30	128				

Sample ID: MB-72786	SampType: MBLK	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132828
Client ID: PBS	Batch ID: 72786	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/11/2011	SeqNo: 2165465

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									
Surr: p-Terphenyl	1.097		2.670		41.1	30	128				

Sample ID: 117737-005AMS	SampType: MS	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132828
Client ID: ZZZZZZ	Batch ID: 72786	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/11/2011	SeqNo: 2165468

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	66.157	8.0	33.00	84.10	-54.4	25	129				S
Surr: p-Terphenyl	0		2.670		0	30	128				SDO

Sample ID: 117737-005AMSD	SampType: MSD	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132828
Client ID: ZZZZZZ	Batch ID: 72786	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/11/2011	SeqNo: 2165469

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	74.237	8.0	33.00	84.10	-29.9	25	129	66.16	11.5	20	S
Surr: p-Terphenyl	0		2.670		0	30	128		0	0	SDO

Sample ID: 117683-011ADUP	SampType: DUP	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132828
Client ID: B6-0	Batch ID: 72786	TestNo: EPA 8015B(M	EPA 3550B	Analysis Date: 5/11/2011	SeqNo: 2165473

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

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_DM LL

Sample ID: 117683-011ADUP	SampType: DUP	TestCode: 8015_S_DM L	Units: mg/Kg	Prep Date: 5/10/2011	RunNo: 132828
Client ID: B6-0	Batch ID: 72786	TestNo: EPA 8015B(M EPA 3550B		Analysis Date: 5/11/2011	SeqNo: 2165473

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
DRO	61.580	12						46.35	28.2	20	R
ORO	374.816	12						274.3	31.0	20	R
Surr: p-Terphenyl	0		2.670		0	30	128		0	0	SDO

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: E110509LC1	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: LCSS	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163821

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.211	1.0	5.000	0	104	70	130				
Surr: Bromofluorobenzene (FID)	120.711		100.0		121	62	153				

Sample ID: E110509MB1MS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: ZZZZZZ	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163822

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.294	1.0	5.000	0	106	49	131				
Surr: Bromofluorobenzene (FID)	126.008		100.0		126	62	153				

Sample ID: E110509MB1MSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: ZZZZZZ	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163823

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.155	1.0	5.000	0	103	49	131	5.294	2.66	20	
Surr: Bromofluorobenzene (FID)	119.031		100.0		119	62	153		0	0	

Sample ID: E110509MB1	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: PBS	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163824

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	94.144		100.0		94.1	62	153				

Sample ID: 117668-035AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: ZZZZZZ	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.169	1.0	5.000	0.2870	57.6	49	131				

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: 117668-035AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: ZZZZZZ	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	140.011		100.0		140	62	153				

Sample ID: 117668-035AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132756
Client ID: ZZZZZZ	Batch ID: E11VS185	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2163828

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	3.313	1.0	5.000	0.2870	60.5	49	131	3.169	4.44	20	
Surr: Bromofluorobenzene (FID)	140.082		100.0		140	62	153		0	0	

Qualifiers:

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- 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: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: E110509LC3	SampType: LCS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: LCSS	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2164331

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.635	1.0	5.000	0	92.7	70	130				
Surr: Bromofluorobenzene (FID)	125.158		100.0		125	62	153				

Sample ID: E110509MB2MS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: ZZZZZZ	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2164332

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.787	1.0	5.000	0	95.7	49	131				
Surr: Bromofluorobenzene (FID)	123.181		100.0		123	62	153				

Sample ID: E110509MB2MSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: ZZZZZZ	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2164333

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.871	1.0	5.000	0	97.4	49	131	4.787	1.74	20	
Surr: Bromofluorobenzene (FID)	119.839		100.0		120	62	153		0	0	

Sample ID: E110509MB2	SampType: MBLK	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: PBS	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2164334

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	105.768		100.0		106	62	153				

Sample ID: 117683-012ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: B6-1	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2164345

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0						0	0	20	

Qualifiers:

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- 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: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015_S_GAS

Sample ID: 117683-012ADUP	SampType: DUP	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: B6-1	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/9/2011	SeqNo: 2164345

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	120.428		100.0		120	62	153		0	0	

Sample ID: 117683-012AMS	SampType: MS	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: B6-1	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/10/2011	SeqNo: 2164348

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.675	1.0	5.000	0	114	49	131				
Surr: Bromofluorobenzene (FID)	157.259		100.0		157	62	153				S

Sample ID: 117683-012AMSD	SampType: MSD	TestCode: 8015_S_GAS	Units: mg/Kg	Prep Date:	RunNo: 132774
Client ID: B6-1	Batch ID: E11VS186	TestNo: EPA 8015B(M		Analysis Date: 5/10/2011	SeqNo: 2164349

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.426	1.0	5.000	0	109	49	131	5.675	4.49	20	
Surr: Bromofluorobenzene (FID)	152.679		100.0		153	62	153		0	0	

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

CLIENT: Geocon Consultants, Inc.
Work Order: 117683
Project: I 580 TRUCK SCALE, E8560-06-01

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **117689-007ADUP**	SampType: **DUP**	TestCode: **9045_S**	Units: **pH Units**	Prep Date:				RunNo: **132795**			
Client ID: **ZZZZZZ**	Batch ID: **R132795**	TestNo: **EPA 9045C**		Analysis Date: **5/10/2011**				SeqNo: **2164642**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.640	0.10						8.600	0.464	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

CHAIN OF CUSTODY RECORD

Pg 1 of 2

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____
Logged By: _____ Date: 5/4/11
NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Method of Transport: ☐ Client ☐ ATL ☐ FedEx ☐ OnTrac ☑ GSO ☐ Other: _____

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

Client: **Geocon Consultants, Inc.**
Address: 6671 Brisa Street
City: Livermore State: CA Zip Code: 94550
TEL: (925) 371-5900 FAX: (925) 371-5915
Attn: C. MERRITT, L. VIGLIOTTI, LIVERMORE

Project Name: I 580 TRUCK SCALE Project #: E8560-06-01 Sampler: (Printed Name) CM (Signature) CHRIS MERRITT

Relinquished by: (Signature and Printed Name) CHRIS MERRITT Date: 1645 Time: 5-3-11
Received by: (Signature and Printed Name) Marg Date: 5/4/11 Time: 11:47
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time:
Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CM 5-3-11 (Print Name / Date)
CM (Signature)

Send Report To: Attn: A/A Co: A/A Addr: City: State: Zip:

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

Special Instructions/Comments:

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

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

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	5010B (Total Metal)	8015B(GRO) / 8021 (BTEX)	8015B (DRO) + MO	TITLE 22 / CAM 17 (6010 / 7000)	TOTAL Pb	Pb EPA 9045	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION
	117693-1	B1-0	5-3-11	VAR					X	X	X					X							E	1	T M	C
	2	B1-1							X	X		X												1		
	3	B2-0							X	X		X												1		
	4	B2-1							X	X	X		X											1		
	5	B3-0							X	X	X													1		
	6	B3-1							X	X		X												1		
	7	B4-0							X	X		X												1		
	8	B4-1							X	X	X													1		
	9	B5-0							X	X	X		X											1		
	10	B5-1							X	X		X												1		

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

• TAT starts 8 a.m. following day if samples received after 5 p.m.

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

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

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

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

CHAIN OF CUSTODY RECORD

Pg 1 of 2

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____
Logged By: [signature] Date: 5/4/11

NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Method of Transport
☐ Client ☐ ATL
☐ FedEx ☐ OnTrac
☐ GSO
☐ Other: _____

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

Client: **Geocon Consultants, Inc.**
Attn:
Address: 6671 Brisa Street
City Livemore State CA Zip Code 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

Project Name: SEE P1 Project #: E8560-06-01 Sampler: (Printed Name) CM (Signature) CHRIS MERRITT

Relinquished by: (Signature and Printed Name) CHRIS MERRITT Date: 5-3-11 Time: 1645 Received by: (Signature and Printed Name) [signature] Date: 5/4/11 Time: 11:47
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
CM (Print Name) 5-3-11 (Date)
CM (Signature)

Send Report To:
Attn: A/A
Co:
Addr:
City: State: Zip:

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

Special Instructions/Comments:

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

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☒ Legal ☐ 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) / 8021 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	TOTAL Pb	pH EPA 9045	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	117683 - 11	B6-0	5-3-11	VAR						X	X	X					X						E	1	T M	C	
	↓ 12	B6-1	" "	"						X	X		X				X						E	1	T M	C	

- TAT starts 8 a.m. following day if samples received after 5 p.m.

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

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

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

Rev. 2010-0325

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

APPENDIX B - Metals and TPH UCLs

As	V	TPHd	TPHmo
1.3	17	270	1,400
2.3	34	2.0	4.2
2.3	34	240	900
5.4	49	0.5	1.8
0.5	22	400	1,400
0.5	25	2.3	5.6
		37	470
		1.2	2.5
		59	180
		200	130
		46	270
		0.5	0.5

TPHd

Number of Valid Observations	12
Number of Distinct Observations	11
Minimum	0.5
Maximum	400
Mean	104.9
Median	41.5
SD	136.7
Variance	18681
Coefficient of Variation	1.303
Skewness	1.169
Mean of log data	2.851
SD of log data	2.599
95% Standard Bootstrap UCL	166.7

As

Number of Valid Observations	6
Number of Distinct Observations	4
Minimum	0.5
Maximum	5.4
Mean	2.05
Median	1.8
SD	1.828
Variance	3.343
Coefficient of Variation	0.892
Skewness	1.461
Mean of log data	0.371
SD of log data	0.942
95% Standard Bootstrap UCL	3.184

TPHmo

Number of Valid Observations	12
Number of Distinct Observations	11
Minimum	0.5
Maximum	1400
Mean	397.1
Median	155
SD	537.8
Variance	289216
Coefficient of Variation	1.354
Skewness	1.268
Mean of log data	3.923
SD of log data	2.91
95% Standard Bootstrap UCL	641.2

V

Number of Valid Observations	6
Number of Distinct Observations	5
Minimum	17
Maximum	49
Mean	30.17
Median	29.5
SD	11.41
Variance	130.2
Coefficient of Variation	0.378
Skewness	0.773
Mean of log data	3.348
SD of log data	0.376
95% Standard Bootstrap UCL	36.96