



An Employee Owned Company

**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
1625-1635 CHESTNUT STREET  
LIVERMORE, CALIFORNIA**

PREPARED FOR:

MR. DANIEL ADAMS  
DIRECTOR OF DEVELOPMENT  
MIDPEN HOUSING  
303 VINTAGE PARK DRIVE, SUITE 250  
FOSTER CITY, CA 94404

DECEMBER 12, 2013

ACC PROJECT NUMBER 6988-003.00

PREPARED BY:

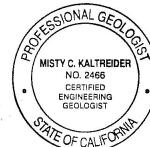
A handwritten signature in black ink, appearing to read "IAN SUTHERLAND".

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IAN SUTHERLAND  
PROJECT GEOLOGIST

REVIEWED BY:

A handwritten signature in black ink, appearing to read "Misty C. Kaltreider".



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MISTY C. KALTREIDER  
ENGINEERING GEOLOGIST

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- E – Layout of Former Gasoline Service Station

## 1.0 INTRODUCTION

This report presents the findings of the limited Phase II Environmental Site Assessment (ESA) conducted by ACC Environmental Consultants, (ACC) at 1625-1635 Chestnut Street in Livermore, California (Site). The investigation was conducted at the request of MidPen Housing and focused specifically on soils the area of the former on-site gasoline service station.

## 2.0 BACKGROUND

The Site located at 1625-1635 Chestnut Street, Livermore, California. Enercon Services, Inc. conducted a Phase I Environmental Site Assessment (ESA) for the Site dated July 24, 2009. The Phase I ESA identified one recognized environmental condition (REC):

- A gasoline service station formerly existed at the northwest corner of the Site from the 1960's to the mid 1970's.

A figure showing the approximate locations of the former gasoline service station features was copied from the Enercon Services, Inc. Phase I referenced above and is attached as Appendix E. To investigate this REC, ACC advanced six soil borings and submitted seven soil samples for chemical analyses. The findings of the investigation are presented below.

## 3.0 FIELD INVESTIGATION

### 3.1 Pre-Field

Prior to the advancement of the borings, ACC marked the area of the proposed drilling locations at the Site and contacted Underground Services Alert (USA) to mark the locations of underground public utilities. ACC additionally hired a private utility locator to clear the boring locations. In order to conduct the work a drilling permit was obtained from the Zone 7 Water Agency. The permit obtained for this investigation is attached as Appendix A.

### 3.2 Soil Sampling Methodology

On October 24, 2013 ACC advanced six soil borings at the site using a GeoProbe direct-push hydraulic drilling rig equipped with two-inch-diameter hollow drill rods. Soil borings were advanced at the approximate location of the former tank basin (B1), the former pump islands (B2, B3, B4 and B5) and the former service station building (B6). Approximate soil boring locations are shown in the attached Figure 1. Based on field observations, boring B1 was advanced directly in the former underground fuel tank basin.

Soil borings were advanced to between approximately 20 and 48 feet below ground surface (ft bgs). Soil samples were collected in acetate or stainless steel liners capped with Teflon sheeting and tight-fitting plastic caps. Subsequent to collection, samples were labeled, logged on a chain-of-custody form and stored on ice in a cooler pending transport to the laboratory following standard chain-of-

custody protocol. The soils were then logged using the Unified Soil Classification System (visual method). Soil boring logs are attached as Appendix B.

Upon completion, borings were back-filled to surface grade with neat cement grout. Soil cuttings were stored on site in a labeled 55-gallon drum pending characterization.

### **3.3 PID Readings**

Soils recovered in the drill rods were field screened for volatile organic compounds (VOCs) using a hand-held photoionization detector (PID). Elevated PID readings were not observed during the investigation indicating that no significant concentrations of VOCs were encountered. PID readings are included in the soil boring logs attached as Appendix B.

## **4.0 GROUNDWATER SAMPLING**

Groundwater was not encountered during this investigation. Boring B1 was advanced until drill refusal was encountered (approximately 48 feet bgs). Only slight amounts of soil moisture were observed during soil logging. Slotted PVC piping was temporarily installed in the boring to facilitate the collection of groundwater. A Solinst water level meter was used to investigate the depth to groundwater in B1, however no groundwater was encountered prior to the conclusion of the fieldwork and the boring was backfilled to the surface with neat cement.

## **5.0 SOIL ANALYTICAL RESULTS**

Soil samples were delivered to Test America in Pleasanton, California following standard chain-of-custody protocol. Soil analytical results are summarized in the attached Table 1. The complete laboratory reports are attached as Appendix C. Soil analytical results were compared to commercial and residential Environmental Screening Levels (ESLs) of the California San Francisco Bay area Regional Water Quality Control Board (RWQCB) for sites where groundwater is not a source of drinking water, and to CalEPA residential and commercial California Human Health Screening Levels (CHHSLs).

No indication of impact from the former underground storage of gasoline was observed. As such, the samples collected from these borings at approximately four ft bgs were submitted for analyses to confirm a lack of impacts by the selected laboratory analytes at that depth.

Boring B1 was completed within the former UST basin. Fill material was observed to a depth of approximately 13 ft bgs in boring B1. Samples were analyzed from within the fill material (four ft bgs) and in native soil beneath the former underground fuel tank basin (16 feet bgs).

Select soil samples were submitted to the analytical laboratory. Soil samples not selected for initial analysis were placed on hold at the laboratory. Selected soil samples were analyzed for the following constituents:

- Gasoline-range Total Petroleum Hydrocarbon (TPH-g) by method 8260B;
- Diesel-range and motor oil-range Total Petroleum Hydrocarbons (TPH-d and TPH-mo) by method 8015B (with silica gel cleanup);
- Volatile Organic Compounds (VOCs) by method 8260B; and
- Total lead by method 6020.

TPH-g, TPH-mo, and VOCs (including MTBE, benzene, toluene, ethylbenzene, and total xylenes) were not detected above laboratory reporting limits.

Concentrations of TPH-d were detected up to 4.8 mg/kg, which is below the corresponding commercial and residential ESLs. No CHHSLs are currently listed for these chemical compounds.

Lead was detected up to 8.5 mg/kg, which is below the corresponding ESLs and CHHSLs and is within naturally occurring background concentrations (Appendix D – Regional Background Metals Concentrations Data).

## **6.0 CONCLUSIONS**

Based on the analytical results for this investigation, significant soil impacts associated with the former on-site gasoline service station were not detected. Low concentrations of diesel-range total petroleum hydrocarbons were detected in soil up 4.8 mg/kg, which does not exceed corresponding ESLs. Lead concentrations were reported in the soil within naturally occurring background concentrations and did not exceed corresponding ESLs and CHHSLs.

Soil boring B1 was advanced in the former tank basin. Analytical results and field observations for B1 suggest that the former underground fuel tanks did not cause a significant release of fuel into the subsurface, and that the former tank basin was backfilled with fill material not impacted by TPH, VOCs or lead.

## **7.0 RECOMMENDATIONS**

No additional soil sampling for purposes of investigating the former on-site gasoline service station is recommended at this time.

## **8.0 LIMITATIONS**

This sampling event does not constitute waste characterization for soil excavation and off-haul, nor does it confirm that all underground fuel tanks and product lines have been removed. If proposed Site redevelopment includes soil excavation and off-haul, ACC recommends that that excavated soils be stockpiled and characterized based on criteria of the proposed accepting

facility. If stockpiling is not feasible ACC recommends that an in situ soil sampling plan be developed based on the excavation location and dimensions.

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

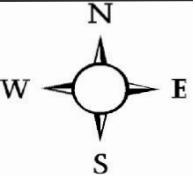
## **FIGURES 1**



Source: Google Earth, 2013

### Legend

- Approximate Boundary of Subject Property
- B1 ○ Sample ID and Approximate Location

<b>Title:</b> <i>Sample Location Map 55 Howe Road Martinez, California</i>	
<b>Figure Number:</b> 1	Scale: None
Project Number: 6988-003.00	Drawn By: DM
Date: 10/31/13	
 <b>A·C·C</b> ENVIRONMENTAL CONSULTANTS <small>An Employee Owned Company</small>	

## **TABLE 1**

TABLE 1  
Soil Analytical Results Summary (TPH, VOCs & Lead)  
1625 Chestnut Street, Livermore, CA  
ACC Project Number: 6988-003.00

Sample Date	Sample ID	Matrix	Chemical Compound & Concentrations (mg/kg)										
			TPH-g	TPH-d	TPH-mo	MTE	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Tetrachloroethylene	Other VOCs	Total Lead
B1-4'	Soil	<0.230	4.8	<49	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	<0.0045	ND	7.2
B1-16'	Soil	<0.230	<99	<49	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0090	<0.0045	ND	8.1
B2-4'	Soil	<0.240	<99	<50	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	ND	7.9
B3-4'	Soil	<0.240	<99	<50	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0097	<0.0048	ND	8.0
B4-4'	Soil	<0.240	4.2	<49	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	ND	8.5
B5-4'	Soil	<0.240	<1.0	<50	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0095	<0.0047	ND	6.0
B6-4'	Soil	<0.230	<1.0	<50	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	ND	6.8
ESLs - Residential (Groundwater is not a Source of Drinking Water)													
Shallow Soil (<3 m)													
Shallow Soil (>3 m)	100	100	500	8.4	0.74	9.3	4.7	11	3.1	0.55	--	80	
Deep Soil (>3 m)	490	240	5,000	8.4	0.74	9.3	4.7	11	3.1	0.55	--	80	
ESLs - Commercial site usage (Groundwater is not a Source of Drinking Water)													
Shallow Soil (<3 m)													
Shallow Soil (>3 m)	500	500	2,500	8.4	1.2	9.3	4.7	11	4.8	2.6	--	320	
Deep Soil (<3 m)	500	500	2,500	6.4	1.2	9.3	4.7	11	4.8	2.6	--	320	
California Human Health Screening Levels (CHHS)													
Residential	--	--	--	--	--	--	--	--	--	--	--	80	
Commercial	--	--	--	--	--	--	--	--	--	--	--	320	

TPH = Total Petroleum Hydrocarbons specified as gasoline-range (TPH-g), diesel-range (TPH-d) and motor oil-range (TPH-mo); VOCs = Volatile Organic Compounds; PCBs = Polychlorinated Biphenyls; SVOCs = Semi-Volatile Organic Compounds; mg/kg = milligrams per kilogram.  
Samples were composited by the laboratory.

## **APPENDIX A**



# ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306  
E-MAIL [whong@zone7water.com](mailto:whong@zone7water.com)

## DRILLING PERMIT APPLICATION

### FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1625-1635 Chestnut St  
Livermore, CA 94551

Coordinates Source Google Earth ft. Accuracy +50 ft.  
LAT: 37° 40' 59" N ft. LONG: 121° 49' 39" W ft.  
APN 98-290-11-1

CLIENT  
Name Daniel Adams - Mid Pen Housing  
Address 203 Vintage Park Dr. Phone 650-356-2900  
City Foster City, CA Zip 94404

APPLICANT  
Name Julia Sivdyla - ACC Environmental Co.  
Email j.sivdyla@accenv.com Fax 510-638-8404  
Address 7777 Copwell Dr. Ste 100 Phone 510-638-8400  
City Oakland, CA Zip 94606

TYPE OF PROJECT:

Well Construction  Geotechnical Investigation   
Well Destruction  Contamination Investigation   
Cathodic Protection  Other

PROPOSED WELL USE: SIL Borings only

Domestic  Irrigation   
Municipal  Remediation   
Industrial  Groundwater Monitoring   
Dewatering  Other

DRILLING METHOD:

Mud Rotary  Air Rotary  Hollow Stem Auger   
Cable Tool  Direct Push  Other

DRILLING COMPANY EN Pro - Environmental

Direct Push Drilling Services

DRILLER'S LICENSE NO. 2-51-777-007

WELL SPECIFICATIONS:

Drill Hole Diameter 8NA in. Maximum  
Casing Diameter NA in. Depth 25 NA ft.  
Surface Seal Depth NA ft. Number 6 NA

SOIL BORINGS:

Number of Borings 6 Maximum  
Hole Diameter 2 in. Depth 25 ft.

ESTIMATED STARTING DATE OCT 24, 2013

ESTIMATED COMPLETION DATE OCT 24, 2013

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE

Date \_\_\_\_\_

ATTACH SITE PLAN OR SKETCH

### FOR OFFICE USE

PERMIT NUMBER 2013128

WELL NUMBER \_\_\_\_\_

APN 98-0290-006-07 & 98-0290-011-01

### PERMIT CONDITIONS

(Circled Permit Requirements Apply)

A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
3. Permit is void if project not begun within 90 days of approval date.
4. Notify Zone 7 at least 24 hours before the start of work.

B. WATER SUPPLY WELLS

1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report Including all soil and water laboratory analysis results.

Approved \_\_\_\_\_

Date 10/15/13

## **APPENDIX B**

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				0	ASPHALT PAVEMENT
				GM 1	LIGHT YELLOWISH-BROWN (2.5Y6/3) SANDY GRAVEL (50% GRAVEL) WITH SILT (10%), MEDIUM DENSITY, VERY SLIGHTLY MOIST. NO PETROLEUM HYDROCARBON DOR OR STAINING.
				2	
				3	
				4	
				5	
				6	
				7	
	0.0	B1-4'		8	
				9	
				10	
				11	
				12	
	0.0	B1-8'		13	
				14	
				CL	YELLOWISH-BROWN (10YR5/6) SILTY-CLAY WITH TRACE SAND (<5%), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, STIFF, NO UNSUAL ODOR OR STAINING.
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B1</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
	0.0	B1-16'		14 15 16 17 18 19 20	CL YELLOWISH-BROWN (10YR5/6) SILTY-CLAY WITH TRACE SAND (<5%), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, STIFF, NO UNSUAL ODOR OR STAINING.
	0.0	B1-20'		21 22 23 24	GRAYISH-BROWN (10YR5/2) WITH VERY DARK GRAYISH-BROWN (10YR3/2) MOTTLING
	0.0	B1-24'		24 25 26 27	GM LIGHT YELLOWISH-BROWN (2.5Y6/3) SANDY GRAVEL WITH SILT TO GRAVELLY SILT WITH SAND, DENSE, DRY, NO PETROLEUM HYDROCARBON ODOR OR STAINING. CL YELLOWISH-BROWN (10YR5/6) SILTY-CLAY WITH TRACE SAND (<5%), WITH GRAYISH-BROWN (10YR5/2) AND VERY DARK GRAYISH-BROWN (10YR3/2) MOTTLING, SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, STIFF, NO UNSUAL ODOR OR STAINING.
	0.0	B1-28'		28	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B1</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				28	CL YELLOWISH-BROWN (10YR5/6) SILTY-CLAY WITH TRACE SAND AND GRAVEL (<5%), GRAYISH-BROWN (10YR5/2) AND VERY DARK GRAYISH-BROWN (10YR3/2) MOTTLING, SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, STIFF, NO UNSUSAL ODOR OR STAINING.
	0.0	B1-32'		29	
				30	
				31	
				32	
				33	
				34	
				35	
	0.0	B1-36'		36	
				37	
				38	
				39	
	0.0	B1-40'		40	POOR RECOVERY FROM 40-44 FEET, A FEW INCHES OF COARSE ANGULAR GRAVEL IN LINER, >1", DRY, NO MOISTURE ON LINER, SAMPLED WHAT WAS IN LINER.
				41	
				42	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B1</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				42	
				43	POOR RECOVERY FROM 40-44 FEET, A FEW INCHES OF COARSE ANGULAR GRAVEL IN LINER, >1", DRY, NO MOISTURE ON LINER, SAMPLED WHAT WAS IN LINER.
	0.0	B1-44'		44	SP GRAVELLY SAND, SLIGHT MOISTURE
				45	CL YELLOWISH-BROWN (10YR5/6) SILTY-CLAY WITH TRACE SAND AND GRAVEL (<5%), GRAYISH-BROWN (10YR5/2) AND VERY DARK GRAYISH-BROWN (10YR3/2) MOTTLING, SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, STIFF, NO UNSUSAL ODOR OR STAINING.
				46	
				47	GP GRAVEL (~70%) WITH SAND, NO MOISTURE, VERY DENSE, COARSE ANGULAR GRAVEL TIGHTLY COMPACTED IN LINER (>1").
				48	END OF BORING
				49	
				50	
				51	
				52	
				53	
				54	
				55	
				56	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B1</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				0	ASPHALT PAVEMENT
				CL 1	SILTY-CLAY, DARK-BROWN (10YR3/3), TRACE SAND (<5%), SLIGHT MOISTURE, MEDIUM PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
				2	
				3	
				4	
				GP 5	GRAVEL (~80%) WITH FINE SAND, DARK YELLOWISH-BROWN (10YR4/6), POORLY GRADED, COARSE, ANGULAR, DRY, NO UNSUAL ODOR OR STAINING.
				6	
				7	
				8	
				9	
				10	
				11	
				12	
				CL 13	SILTY-CLAY WITH GRAVEL (~30%), TRACE SAND (<5%), YELLOWISH-BROWN (10YR5/4), DRY, MEDIUM PLASTICITY, FIRM, DISPERSED SAND (<5%) NO UNSUAL ODOR OR STAINING.
				14	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B2</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				14	CL SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
	0.0	B2-16'		15	
				16	
				17	
				18	
				19	
	0.1	B2-20'		20	
				21	
				22	
				23	
	0.0	B2-24'		24	END OF BORING
				25	
				26	
				27	
				28	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B2</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				0	ASPHALT PAVEMENT
				CL 1	SILTY-CLAY WITH TRACE SAND (<5%), DARK-BROWN (10YR3/3), SLIGHT MOISTURE, MEDIUM PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
				2	
				3	
				4	
				CL 5	SILTY-CLAY WITH GRAVEL (~30%), TRACE SAND (<5%), YELLOWISH-BROWN (10YR5/4), DRY, MEDIUM PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
				6	
				7	
				8	
				9	
				GM 10	SANDY-GRAVEL WITH SILT (10% SILT), LIGHT BROWNISH-GRAY (2.5Y6/2), POORLY GRADED, ANGULAR, DRY, NO UNSUAL ODOR OR STAINING.
				11	
				12	
				CL 13	SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, DISPERSED GRAVEL (<5%) NO UNSUAL ODOR OR STAINING.
				14	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B3</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				14	CL SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
	0.0	B3-16'		15	
	0.0	B3-16'		16	
	0.0	B3-16'		17	
	0.0	B3-16'		18	
	0.0	B3-16'		19	
	0.0	B3-20'		20	END OF BORING
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B3</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA	
				0	ASPHALT PAVEMENT	
				CL	SILTY-CLAY WITH TRACE SAND (<5%), DARK-BROWN (10YR3/3), SLIGHT MOISTURE, MEDIUM PLASTICITY, FIRM, NO UNSUSAL ODOR OR STAINING.	
				1		
				2		
				3		
				4	GP	GRAVEL (~80%) WITH FINE SAND, DARK YELLOWISH-BROWN (10YR4/6), POORLY GRADED, ANGULAR, DRY, NO UNSUSAL ODOR OR STAINING.
				5		
				6		
				7		
				8	CL	SILTY-CLAY WITH TRACE GRAVEL, DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, NO UNSUSAL ODOR OR STAINING.
				9		
				10		
				11		
				12		
				13		
				14		
<b>ACC ENVIRONMENTAL CONSULTANTS</b> 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B4</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED		
		PROJECT NUMBER 6988-003.00				

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				14	CL SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, DISPERSED GRAVEL (<5%) NO UNSUAL ODOR OR STAINING.
	0.0	B4-16'		15	
	0.0	B4-20'		16	
				17	
				18	
				19	
				20	END OF BORING
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B4</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				0	ASPHALT PAVEMENT
				CL 1	SILTY-CLAY WITH TRACE SAND (<5%), DARK-BROWN (10YR3/3), SLIGHT MOISTURE, MEDIUM PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
				2	
				3	
				4	
	0.0	B5-4'		GM 5	SANDY GRAVEL WITH SILT (10% SILT), LIGHT BROWNISH-GREY (2.5Y6/2), POORLY GRADED, COARSE, ANGULAR, DRY, NO UNSUAL ODOR OR STAINING.
				6	
				7	
	0.1	B5-8'		8	
				9	
				10	
				11	
				12	
	0.0	B5-12'		CL 13	SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, DISPERSED GRAVEL (<5%) NO UNSUAL ODOR OR STAINING.
				14	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B5</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				14	CL SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, DISPERSED GRAVEL (<5%) NO UNSUAL ODOR OR STAINING.
	0.0	B5-16'		15	
	0.0	B5-20'		16	
				17	
				18	
				19	
				20	END OF BORING
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B5</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				0	ASPHALT PAVEMENT
				CL	SILTY-CLAY WITH TRACE SAND (<5%), DARK-BROWN (10YR3/3), SLIGHT MOISTURE, MEDIUM PLASTICITY, FIRM, NO UNSUSAL ODOR OR STAINING.
				1	
				2	
				3	
				4	
		B6-4'		GP	GRAVEL (~80%) WITH FINE SAND, DARK YELLOWISH-BROWN (10YR4/6), POORLY GRADED, DRY, ANGULAR, NO UNSUSAL ODOR OR STAINING.
				5	
				6	
				7	
				8	
		B6-8'		GM	SANDY GRAVEL WITH SILT (10% SILT), LIGHT BROWNISH-GRAY (2.5Y6/2), DENSE, POORLY GRADED, DRY, COARSE, ANGULAR, NO UNSUSAL ODOR OR STAINING.
				9	
				10	
				11	
				12	
		B6-12'		CL	SILTY-CLAY, DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, DISPERSED GRAVEL (<5%) NO UNSUSAL ODOR OR STAINING.
				13	
				14	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B6</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

ADDITIONAL OBSERVATIONS	PID (PPM)	SAMPLE ID	SAMPLE INTERVAL	DEPTH (FEET)	EQUIPMENT: GEOPROBE DIRECT PUSH OPERATED BY: ENPROBE LOGGED BY: IAN SUTHERLAND WORK DATE: 10.24.13 LOCATION: 1625-1635 CHESTNUT STREET, LIVERMORE, CA
				14	CL SILTY-CLAY WITH TRACE GRAVEL (<5%), DARK YELLOWISH-BROWN (10YR4/6), SLIGHT MOISTURE, MEDIUM TO LOW PLASTICITY, FIRM, NO UNSUAL ODOR OR STAINING.
	0.0	B6-16'		15	
	0.0	B6-20'		16	
				17	
				18	
				19	
				20	END OF BORING
				21	
				22	
				23	
				24	
				25	
				26	
				27	
				28	
ACC ENVIRONMENTAL CONSULTANTS 7977 CAPWELL DRIVE, SUITE 100 OAKLAND, CALIFORNIA 94621 (510)638-8400 FAX: (510)638-8404		<b>BORING: B6</b>		ADDITIONAL NOTES: BORING BACKFILLED WITH NEAT CEMENT, NO GROUNDWATER ENCOUNTERED	
		PROJECT NUMBER 6988-003.00			

## **APPENDIX C**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-53309-1

Client Project/Site: Chestnut

For:

ACC Environmental Consultants

7977 Capwell Drive

Suite 100

Oakland, California 94621

Attn: Julia Siudyla

*Authorized for release by:*

*11/4/2013 5:43:22 PM*

Dimple Sharma, Project Manager I

(925)484-1919

[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

**Ask  
The  
Expert**

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

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### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Job ID: 720-53309-1**

**Laboratory: TestAmerica Pleasanton**

### Narrative

**Job Narrative**  
**720-53309-1**

### Comments

No additional comments.

### Receipt

The samples were received on 10/24/2013 3:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

### GC/MS VOA

Method 8260B: The laboratory control sample duplicate (LCSD) for batch #147339 recovered outside control limits for the following analytes: MEK,2-HEXANONE. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

### GC VOA

No analytical or quality issues were noted.

### GC Semi VOA

No analytical or quality issues were noted.

### Metals

No analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

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## Detection Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Client Sample ID: B1-4'

Lab Sample ID: 720-53309-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.8		0.98		mg/Kg	1		8015B	Silica Gel
Lead	7.2		1.6		mg/Kg	4		6010B	Cleanup Total/NA

### Client Sample ID: B1-16'

Lab Sample ID: 720-53309-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.1		1.9		mg/Kg	4		6010B	Total/NA

### Client Sample ID: B2-4'

Lab Sample ID: 720-53309-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.9		1.8		mg/Kg	4		6010B	Total/NA

### Client Sample ID: B3-4'

Lab Sample ID: 720-53309-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.0		1.8		mg/Kg	4		6010B	Total/NA

### Client Sample ID: B4-4'

Lab Sample ID: 720-53309-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.2		0.99		mg/Kg	1		8015B	Silica Gel
Lead	8.5		2.0		mg/Kg	4		6010B	Cleanup Total/NA

### Client Sample ID: B5-4'

Lab Sample ID: 720-53309-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.0		1.9		mg/Kg	4		6010B	Total/NA

### Client Sample ID: B6-4'

Lab Sample ID: 720-53309-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.8		1.9		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
 Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B1-4'**

**Date Collected: 10/24/13 08:53**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-1**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Acetone	ND		45		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Benzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Dichlorobromomethane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Bromobenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Chlorobromomethane	ND		18		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Bromoform	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Bromomethane	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
2-Butanone (MEK)	ND		45		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
n-Butylbenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
sec-Butylbenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
tert-Butylbenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Carbon disulfide	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Carbon tetrachloride	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Chlorobenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Chloroethane	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Chloroform	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Chloromethane	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
2-Chlorotoluene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
4-Chlorotoluene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Chlorodibromomethane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,3-Dichloropropane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,1-Dichloropropene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Ethylene Dibromide	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Dibromomethane	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Dichlorodifluoromethane	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,1-Dichloroethane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,2-Dichloroethane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,1-Dichloroethene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,2-Dichloropropane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Ethylbenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Hexachlorobutadiene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
2-Hexanone	ND		45		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Isopropylbenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
4-Isopropyltoluene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Methylene Chloride	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Naphthalene	ND		9.1		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
N-Propylbenzene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
Styrene	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg	10/30/13 22:04	10/30/13 23:03	10/30/13 23:03	1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B1-4'**

**Lab Sample ID: 720-53309-1**

Matrix: Solid

Date Collected: 10/24/13 08:53  
Date Received: 10/24/13 15:53

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Tetrachloroethene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Toluene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Trichloroethene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Trichlorofluoromethane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Vinyl acetate	ND		45		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Vinyl chloride	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Xylenes, Total	ND		9.1		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
2,2-Dichloropropane	ND		4.5		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/30/13 22:04	10/30/13 23:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		45 - 131				10/30/13 22:04	10/30/13 23:03	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 140				10/30/13 22:04	10/30/13 23:03	1
Toluene-d8 (Surr)	95		58 - 140				10/30/13 22:04	10/30/13 23:03	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.8		0.98		mg/Kg		10/30/13 15:21	10/31/13 02:30	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		10/30/13 15:21	10/31/13 02:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0		0 - 1				10/30/13 15:21	10/31/13 02:30	1
p-Terphenyl	102		38 - 148				10/30/13 15:21	10/31/13 02:30	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.2		1.6		mg/Kg		10/28/13 17:52	10/29/13 20:33	4

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B1-16'**

**Date Collected: 10/24/13 09:12**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-4**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Acetone	ND		45		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Benzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Dichlorobromomethane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Bromobenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Chlorobromomethane	ND		18		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Bromoform	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Bromomethane	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
2-Butanone (MEK)	ND		45		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
n-Butylbenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
sec-Butylbenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
tert-Butylbenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Carbon disulfide	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Carbon tetrachloride	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Chlorobenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Chloroethane	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Chloroform	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Chloromethane	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
2-Chlorotoluene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
4-Chlorotoluene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Chlorodibromomethane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,2-Dichlorobenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,3-Dichlorobenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,4-Dichlorobenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,3-Dichloropropane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,1-Dichloropropene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Ethylene Dibromide	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Dibromomethane	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Dichlorodifluoromethane	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,1-Dichloroethane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,2-Dichloroethane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,1-Dichloroethene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,2-Dichloropropane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Ethylbenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Hexachlorobutadiene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
2-Hexanone	ND		45		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Isopropylbenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
4-Isopropyltoluene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Methylene Chloride	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Naphthalene	ND		9.0		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
N-Propylbenzene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
Styrene	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg	10/29/13 16:35	10/30/13 00:25		1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B1-16'**

**Lab Sample ID: 720-53309-4**

Matrix: Solid

Date Collected: 10/24/13 09:12

Date Received: 10/24/13 15:53

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Tetrachloroethene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Toluene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Trichloroethene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Trichlorofluoromethane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Vinyl acetate	ND		45		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Vinyl chloride	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Xylenes, Total	ND		9.0		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
2,2-Dichloropropane	ND		4.5		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/29/13 16:35	10/30/13 00:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	66			45 - 131			10/29/13 16:35	10/30/13 00:25	1
1,2-Dichloroethane-d4 (Surr)	108			60 - 140			10/29/13 16:35	10/30/13 00:25	1
Toluene-d8 (Surr)	82			58 - 140			10/29/13 16:35	10/30/13 00:25	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		10/30/13 15:21	10/31/13 00:53	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		10/30/13 15:21	10/31/13 00:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.01			0 - 1			10/30/13 15:21	10/31/13 00:53	1
p-Terphenyl	96			38 - 148			10/30/13 15:21	10/31/13 00:53	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.1		1.9		mg/Kg		10/28/13 17:52	10/29/13 20:37	4

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B2-4'**

**Date Collected: 10/24/13 11:01**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-12**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Acetone	ND		49		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Benzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Dichlorobromomethane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Bromobenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Chlorobromomethane	ND		19		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Bromoform	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Bromomethane	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
2-Butanone (MEK)	ND		49		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
n-Butylbenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
sec-Butylbenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
tert-Butylbenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Carbon disulfide	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Carbon tetrachloride	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Chlorobenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Chloroethane	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Chloroform	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Chloromethane	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
2-Chlorotoluene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
4-Chlorotoluene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Chlorodibromomethane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,2-Dichlorobenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,3-Dichlorobenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,4-Dichlorobenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,3-Dichloropropane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,1-Dichloropropene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Ethylene Dibromide	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Dibromomethane	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Dichlorodifluoromethane	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,1-Dichloroethane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,2-Dichloroethane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,1-Dichloroethene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,2-Dichloropropane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Ethylbenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Hexachlorobutadiene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
2-Hexanone	ND		49		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Isopropylbenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
4-Isopropyltoluene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Methylene Chloride	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Naphthalene	ND		9.7		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
N-Propylbenzene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
Styrene	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg	10/30/13 22:04	10/30/13 23:30		1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B2-4'**

**Date Collected: 10/24/13 11:01**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-12**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Tetrachloroethene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Toluene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Trichloroethene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Vinyl acetate	ND		49		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Vinyl chloride	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Xylenes, Total	ND		9.7		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/30/13 22:04	10/30/13 23:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	89			45 - 131			10/30/13 22:04	10/30/13 23:30	1
1,2-Dichloroethane-d4 (Surr)	87			60 - 140			10/30/13 22:04	10/30/13 23:30	1
Toluene-d8 (Surr)	94			58 - 140			10/30/13 22:04	10/30/13 23:30	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		10/30/13 15:21	10/31/13 01:17	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/30/13 15:21	10/31/13 01:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.008			0 - 1			10/30/13 15:21	10/31/13 01:17	1
p-Terphenyl	102			38 - 148			10/30/13 15:21	10/31/13 01:17	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.9		1.8		mg/Kg		10/28/13 17:52	10/29/13 20:42	4

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
 Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B3-4'**

**Date Collected: 10/24/13 11:42**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-18**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Acetone	ND		48		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Benzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Dichlorobromomethane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Bromobenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Chlorobromomethane	ND		19		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Bromoform	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Bromomethane	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
2-Butanone (MEK)	ND		48		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
n-Butylbenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
sec-Butylbenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
tert-Butylbenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Carbon disulfide	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Carbon tetrachloride	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Chlorobenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Chloroethane	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Chloroform	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Chloromethane	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
2-Chlorotoluene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
4-Chlorotoluene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Chlorodibromomethane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,2-Dichlorobenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,3-Dichlorobenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,4-Dichlorobenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,3-Dichloropropane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,1-Dichloropropene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Ethylene Dibromide	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Dibromomethane	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Dichlorodifluoromethane	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,1-Dichloroethane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,2-Dichloroethane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,1-Dichloroethene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,2-Dichloropropane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Ethylbenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Hexachlorobutadiene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
2-Hexanone	ND		48		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Isopropylbenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
4-Isopropyltoluene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Methylene Chloride	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Naphthalene	ND		9.7		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
N-Propylbenzene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
Styrene	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg	10/29/13 16:35	10/30/13 01:22		1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B3-4'**

**Date Collected: 10/24/13 11:42**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-18**

**Matrix: Solid**

## **Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Tetrachloroethene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Toluene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Trichloroethene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Vinyl acetate	ND		48		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Vinyl chloride	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Xylenes, Total	ND		9.7		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/29/13 16:35	10/30/13 01:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	64			45 - 131			10/29/13 16:35	10/30/13 01:22	1
1,2-Dichloroethane-d4 (Surr)	105			60 - 140			10/29/13 16:35	10/30/13 01:22	1
Toluene-d8 (Surr)	81			58 - 140			10/29/13 16:35	10/30/13 01:22	1

## **Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		10/30/13 15:21	10/31/13 01:42	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/30/13 15:21	10/31/13 01:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.02			0 - 1			10/30/13 15:21	10/31/13 01:42	1
p-Terphenyl	98			38 - 148			10/30/13 15:21	10/31/13 01:42	1

## **Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.0		1.8		mg/Kg		10/28/13 17:52	10/29/13 20:55	4

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
 Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B4-4'**

**Date Collected: 10/24/13 12:14**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-23**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Acetone	ND		47		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Benzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Dichlorobromomethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Bromobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Chlorobromomethane	ND		19		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Bromoform	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Bromomethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
2-Butanone (MEK)	ND *		47		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
n-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
sec-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
tert-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Carbon disulfide	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Carbon tetrachloride	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Chlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Chloroethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Chloroform	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Chloromethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
2-Chlorotoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
4-Chlorotoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Chlorodibromomethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,2-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,3-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,4-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,3-Dichloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,1-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Ethylene Dibromide	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Dibromomethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Dichlorodifluoromethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,1-Dichloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,2-Dichloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,1-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,2-Dichloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Ethylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Hexachlorobutadiene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
2-Hexanone	ND *		47		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Isopropylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
4-Isopropyltoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Methylene Chloride	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Naphthalene	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
N-Propylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
Styrene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 16:49		1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B4-4'**

**Date Collected: 10/24/13 12:14**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-23**

**Matrix: Solid**

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Tetrachloroethene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Toluene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Trichloroethene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Vinyl acetate	ND		47		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Vinyl chloride	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Xylenes, Total	ND		9.4		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/30/13 10:00	10/30/13 16:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	90			45 - 131			10/30/13 10:00	10/30/13 16:49	1
1,2-Dichloroethane-d4 (Surr)	111			60 - 140			10/30/13 10:00	10/30/13 16:49	1
Toluene-d8 (Surr)	107			58 - 140			10/30/13 10:00	10/30/13 16:49	1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.2		0.99		mg/Kg		10/30/13 15:21	10/31/13 02:06	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		10/30/13 15:21	10/31/13 02:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0			0 - 1			10/30/13 15:21	10/31/13 02:06	1
p-Terphenyl	93			38 - 148			10/30/13 15:21	10/31/13 02:06	1

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.5		2.0		mg/Kg		10/28/13 17:52	10/29/13 21:00	4

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
 Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B5-4'**

**Date Collected: 10/24/13 13:03**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-28**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Acetone	ND		47		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Benzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Dichlorobromomethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Bromobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Chlorobromomethane	ND		19		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Bromoform	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Bromomethane	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
2-Butanone (MEK)	ND *		47		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
n-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
sec-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
tert-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Carbon disulfide	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Carbon tetrachloride	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Chlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Chloroethane	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Chloroform	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Chloromethane	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
2-Chlorotoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
4-Chlorotoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Chlorodibromomethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,2-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,3-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,4-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,3-Dichloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,1-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Ethylene Dibromide	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Dibromomethane	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Dichlorodifluoromethane	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,1-Dichloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,2-Dichloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,1-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,2-Dichloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Ethylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Hexachlorobutadiene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
2-Hexanone	ND *		47		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Isopropylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
4-Isopropyltoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Methylene Chloride	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Naphthalene	ND		9.5		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
N-Propylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
Styrene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 17:18		1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B5-4'**

**Date Collected: 10/24/13 13:03**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-28**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Tetrachloroethene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Toluene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Trichloroethene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Vinyl acetate	ND		47		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Vinyl chloride	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Xylenes, Total	ND		9.5		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/30/13 10:00	10/30/13 17:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	82			45 - 131			10/30/13 10:00	10/30/13 17:18	1
1,2-Dichloroethane-d4 (Surr)	122			60 - 140			10/30/13 10:00	10/30/13 17:18	1
Toluene-d8 (Surr)	101			58 - 140			10/30/13 10:00	10/30/13 17:18	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/02/13 14:22	11/04/13 13:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/02/13 14:22	11/04/13 13:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.004			0 - 1			11/02/13 14:22	11/04/13 13:51	1
p-Terphenyl	105			38 - 148			11/02/13 14:22	11/04/13 13:51	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.0		1.9		mg/Kg		10/28/13 17:52	10/29/13 21:04	4

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B6-4'**

**Date Collected: 10/24/13 13:43**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-33**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Acetone	ND		47		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Benzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Dichlorobromomethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Bromobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Chlorobromomethane	ND		19		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Bromoform	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Bromomethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
2-Butanone (MEK)	ND *		47		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
n-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
sec-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
tert-Butylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Carbon disulfide	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Carbon tetrachloride	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Chlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Chloroethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Chloroform	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Chloromethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
2-Chlorotoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
4-Chlorotoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Chlorodibromomethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,2-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,3-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,4-Dichlorobenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,3-Dichloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,1-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Ethylene Dibromide	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Dibromomethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Dichlorodifluoromethane	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,1-Dichloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,2-Dichloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,1-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,2-Dichloropropane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Ethylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Hexachlorobutadiene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
2-Hexanone	ND *		47		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Isopropylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
4-Isopropyltoluene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Methylene Chloride	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Naphthalene	ND		9.4		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
N-Propylbenzene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
Styrene	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg	10/30/13 10:00	10/30/13 14:54		1

TestAmerica Pleasanton

# Client Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B6-4'**

**Date Collected: 10/24/13 13:43**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-33**

**Matrix: Solid**

**Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Tetrachloroethene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Toluene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Trichloroethene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Vinyl acetate	ND		47		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Vinyl chloride	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Xylenes, Total	ND		9.4		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/30/13 10:00	10/30/13 14:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	80			45 - 131			10/30/13 10:00	10/30/13 14:54	1
1,2-Dichloroethane-d4 (Surr)	118			60 - 140			10/30/13 10:00	10/30/13 14:54	1
Toluene-d8 (Surr)	101			58 - 140			10/30/13 10:00	10/30/13 14:54	1

**Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/31/13 09:10	10/31/13 18:34	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/31/13 09:10	10/31/13 18:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Surr)	0.002			0 - 1			10/31/13 09:10	10/31/13 18:34	1
p-Terphenyl	119			38 - 148			10/31/13 09:10	10/31/13 18:34	1

**Method: 6010B - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.8		1.9		mg/Kg		10/28/13 17:52	10/29/13 21:09	4

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
 Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-147272/4**

**Client Sample ID: Method Blank**

**Matrix: Solid**

**Prep Type: Total/NA**

**Analysis Batch: 147272**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND				5.0		ug/Kg			10/29/13 15:19	1
Acetone	ND				50		ug/Kg			10/29/13 15:19	1
Benzene	ND				5.0		ug/Kg			10/29/13 15:19	1
Dichlorobromomethane	ND				5.0		ug/Kg			10/29/13 15:19	1
Bromobenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
Chlorobromomethane	ND				20		ug/Kg			10/29/13 15:19	1
Bromoform	ND				5.0		ug/Kg			10/29/13 15:19	1
Bromomethane	ND				10		ug/Kg			10/29/13 15:19	1
2-Butanone (MEK)	ND				50		ug/Kg			10/29/13 15:19	1
n-Butylbenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
sec-Butylbenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
tert-Butylbenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
Carbon disulfide	ND				5.0		ug/Kg			10/29/13 15:19	1
Carbon tetrachloride	ND				5.0		ug/Kg			10/29/13 15:19	1
Chlorobenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
Chloroethane	ND				10		ug/Kg			10/29/13 15:19	1
Chloroform	ND				5.0		ug/Kg			10/29/13 15:19	1
Chloromethane	ND				10		ug/Kg			10/29/13 15:19	1
2-Chlorotoluene	ND				5.0		ug/Kg			10/29/13 15:19	1
4-Chlorotoluene	ND				5.0		ug/Kg			10/29/13 15:19	1
Chlorodibromomethane	ND				5.0		ug/Kg			10/29/13 15:19	1
1,2-Dichlorobenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
1,3-Dichlorobenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
1,4-Dichlorobenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
1,3-Dichloropropane	ND				5.0		ug/Kg			10/29/13 15:19	1
1,1-Dichloropropene	ND				5.0		ug/Kg			10/29/13 15:19	1
1,2-Dibromo-3-Chloropropane	ND				5.0		ug/Kg			10/29/13 15:19	1
Ethylene Dibromide	ND				5.0		ug/Kg			10/29/13 15:19	1
Dibromomethane	ND				10		ug/Kg			10/29/13 15:19	1
Dichlorodifluoromethane	ND				10		ug/Kg			10/29/13 15:19	1
1,1-Dichloroethane	ND				5.0		ug/Kg			10/29/13 15:19	1
1,2-Dichloroethane	ND				5.0		ug/Kg			10/29/13 15:19	1
1,1-Dichloroethene	ND				5.0		ug/Kg			10/29/13 15:19	1
cis-1,2-Dichloroethene	ND				5.0		ug/Kg			10/29/13 15:19	1
trans-1,2-Dichloroethene	ND				5.0		ug/Kg			10/29/13 15:19	1
1,2-Dichloropropene	ND				5.0		ug/Kg			10/29/13 15:19	1
cis-1,3-Dichloropropene	ND				5.0		ug/Kg			10/29/13 15:19	1
trans-1,3-Dichloropropene	ND				5.0		ug/Kg			10/29/13 15:19	1
Ethylbenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
Hexachlorobutadiene	ND				5.0		ug/Kg			10/29/13 15:19	1
2-Hexanone	ND				50		ug/Kg			10/29/13 15:19	1
Isopropylbenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
4-Isopropyltoluene	ND				5.0		ug/Kg			10/29/13 15:19	1
Methylene Chloride	ND				10		ug/Kg			10/29/13 15:19	1
4-Methyl-2-pentanone (MIBK)	ND				50		ug/Kg			10/29/13 15:19	1
Naphthalene	ND				10		ug/Kg			10/29/13 15:19	1
N-Propylbenzene	ND				5.0		ug/Kg			10/29/13 15:19	1
Styrene	ND				5.0		ug/Kg			10/29/13 15:19	1

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-147272/4**

**Matrix: Solid**

**Analysis Batch: 147272**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 15:19	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 15:19	1
Tetrachloroethene	ND		5.0		ug/Kg			10/29/13 15:19	1
Toluene	ND		5.0		ug/Kg			10/29/13 15:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 15:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 15:19	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/29/13 15:19	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/29/13 15:19	1
Trichloroethene	ND		5.0		ug/Kg			10/29/13 15:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/29/13 15:19	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/29/13 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/29/13 15:19	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 15:19	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 15:19	1
Vinyl acetate	ND		50		ug/Kg			10/29/13 15:19	1
Vinyl chloride	ND		5.0		ug/Kg			10/29/13 15:19	1
Xylenes, Total	ND		10		ug/Kg			10/29/13 15:19	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 15:19	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg			10/29/13 15:19	1
-C5-C12									

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	80		45 - 131		10/29/13 15:19	1
1,2-Dichloroethane-d4 (Surr)	112		60 - 140		10/29/13 15:19	1
Toluene-d8 (Surr)	87		58 - 140		10/29/13 15:19	1

**Lab Sample ID: LCS 720-147272/5**

**Matrix: Solid**

**Analysis Batch: 147272**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Methyl tert-butyl ether	50.0	59.5		ug/Kg		119	70 - 144	
Acetone	250	288		ug/Kg		115	30 - 162	
Benzene	50.0	50.2		ug/Kg		100	70 - 130	
Dichlorobromomethane	50.0	56.6		ug/Kg		113	70 - 131	
Bromobenzene	50.0	48.6		ug/Kg		97	70 - 130	
Chlorobromomethane	50.0	56.0		ug/Kg		112	70 - 130	
Bromoform	50.0	60.2		ug/Kg		120	59 - 158	
Bromomethane	50.0	48.3		ug/Kg		97	59 - 132	
2-Butanone (MEK)	250	311		ug/Kg		124	53 - 124	
n-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 142	
sec-Butylbenzene	50.0	49.0		ug/Kg		98	70 - 136	
tert-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 130	
Carbon disulfide	50.0	52.4		ug/Kg		105	60 - 140	
Carbon tetrachloride	50.0	51.8		ug/Kg		104	70 - 138	
Chlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	
Chloroethane	50.0	48.9		ug/Kg		98	65 - 130	
Chloroform	50.0	54.4		ug/Kg		109	77 - 127	

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-147272/5

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 147272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	47.0		ug/Kg		94	55 - 140
2-Chlorotoluene	50.0	50.9		ug/Kg		102	70 - 138
4-Chlorotoluene	50.0	51.1		ug/Kg		102	70 - 136
Chlorodibromomethane	50.0	61.9		ug/Kg		124	70 - 146
1,2-Dichlorobenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 131
1,4-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 130
1,3-Dichloropropane	50.0	59.6		ug/Kg		119	70 - 140
1,1-Dichloropropene	50.0	54.1		ug/Kg		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/Kg		106	60 - 145
Ethylene Dibromide	50.0	60.3		ug/Kg		121	70 - 140
Dibromomethane	50.0	59.9		ug/Kg		120	70 - 139
Dichlorodifluoromethane	50.0	46.6		ug/Kg		93	37 - 158
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	70 - 130
1,2-Dichloroethane	50.0	58.4		ug/Kg		117	70 - 130
1,1-Dichloroethene	50.0	49.3		ug/Kg		99	76 - 122
cis-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	70 - 138
trans-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	67 - 130
1,2-Dichloropropane	50.0	52.8		ug/Kg		106	73 - 127
cis-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	68 - 147
trans-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	70 - 136
Ethylbenzene	50.0	51.7		ug/Kg		103	80 - 137
Hexachlorobutadiene	50.0	44.8		ug/Kg		90	70 - 132
2-Hexanone	250	312		ug/Kg		125	44 - 133
Isopropylbenzene	50.0	55.8		ug/Kg		112	88 - 128
4-Isopropyltoluene	50.0	49.7		ug/Kg		99	70 - 133
Methylene Chloride	50.0	52.5		ug/Kg		105	70 - 134
4-Methyl-2-pentanone (MIBK)	250	316		ug/Kg		126	60 - 160
Naphthalene	50.0	54.6		ug/Kg		109	60 - 147
N-Propylbenzene	50.0	49.1		ug/Kg		98	70 - 130
Styrene	50.0	59.5		ug/Kg		119	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/Kg		112	70 - 146
Tetrachloroethene	50.0	52.6		ug/Kg		105	70 - 132
Toluene	50.0	50.6		ug/Kg		101	80 - 128
1,2,3-Trichlorobenzene	50.0	51.5		ug/Kg		103	60 - 140
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	60 - 140
1,1,1-Trichloroethane	50.0	51.9		ug/Kg		104	70 - 130
1,1,2-Trichloroethane	50.0	58.5		ug/Kg		117	70 - 130
Trichloroethene	50.0	50.7		ug/Kg		101	70 - 133
Trichlorofluoromethane	50.0	50.6		ug/Kg		101	60 - 140
1,2,3-Trichloropropane	50.0	54.4		ug/Kg		109	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.7		ug/Kg		97	60 - 140
ne							
1,2,4-Trimethylbenzene	50.0	53.6		ug/Kg		107	70 - 130
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 131
Vinyl acetate	50.0	77.9		ug/Kg		156	38 - 176
Vinyl chloride	50.0	47.1		ug/Kg		94	58 - 125

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-147272/5

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 147272

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
m-Xylene & p-Xylene	100	108		ug/Kg		108	70 - 146
o-Xylene	50.0	58.2		ug/Kg		116	70 - 140
2,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 162
Surrogate	LCS	LCS					
	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene	104		45 - 131				
1,2-Dichloroethane-d4 (Surr)	111		60 - 140				
Toluene-d8 (Surr)	97		58 - 140				

Lab Sample ID: LCS 720-147272/7

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 147272

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Gasoline Range Organics (GRO)	1000	1160		ug/Kg		116	61 - 128
-C5-C12							
Surrogate	LCS	LCS					
	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene	96		45 - 131				
1,2-Dichloroethane-d4 (Surr)	106		60 - 140				
Toluene-d8 (Surr)	99		58 - 140				

Lab Sample ID: LCSD 720-147272/6

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 147272

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier						
Methyl tert-butyl ether	50.0	58.5		ug/Kg		117	70 - 144	2	20
Acetone	250	258		ug/Kg		103	30 - 162	11	30
Benzene	50.0	51.1		ug/Kg		102	70 - 130	2	20
Dichlorobromomethane	50.0	56.6		ug/Kg		113	70 - 131	0	20
Bromobenzene	50.0	49.9		ug/Kg		100	70 - 130	3	20
Chlorobromomethane	50.0	55.2		ug/Kg		110	70 - 130	1	20
Bromoform	50.0	58.1		ug/Kg		116	59 - 158	3	20
Bromomethane	50.0	49.5		ug/Kg		99	59 - 132	3	20
2-Butanone (MEK)	250	273		ug/Kg		109	53 - 124	13	20
n-Butylbenzene	50.0	56.1		ug/Kg		112	70 - 142	7	20
sec-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 136	7	20
tert-Butylbenzene	50.0	53.8		ug/Kg		108	70 - 130	7	20
Carbon disulfide	50.0	55.2		ug/Kg		110	60 - 140	5	20
Carbon tetrachloride	50.0	54.0		ug/Kg		108	70 - 138	4	20
Chlorobenzene	50.0	53.1		ug/Kg		106	70 - 130	2	20
Chloroethane	50.0	52.4		ug/Kg		105	65 - 130	7	20
Chloroform	50.0	55.2		ug/Kg		110	77 - 127	1	20
Chloromethane	50.0	49.6		ug/Kg		99	55 - 140	5	20
2-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 138	6	20
4-Chlorotoluene	50.0	53.3		ug/Kg		107	70 - 136	4	20
Chlorodibromomethane	50.0	60.0		ug/Kg		120	70 - 146	3	20

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	RPD	Limit
	Added	Result	Qualifier				Limits	RPD			
1,2-Dichlorobenzene	50.0	50.8		ug/Kg	102	70 - 130	2	20			
1,3-Dichlorobenzene	50.0	51.5		ug/Kg	103	70 - 131	3	20			
1,4-Dichlorobenzene	50.0	51.6		ug/Kg	103	70 - 130	4	20			
1,3-Dichloropropane	50.0	58.4		ug/Kg	117	70 - 140	2	20			
1,1-Dichloropropene	50.0	56.5		ug/Kg	113	70 - 130	4	20			
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg	106	60 - 145	0	20			
Ethylene Dibromide	50.0	58.2		ug/Kg	116	70 - 140	4	20			
Dibromomethane	50.0	59.5		ug/Kg	119	70 - 139	1	20			
Dichlorodifluoromethane	50.0	49.2		ug/Kg	98	37 - 158	5	20			
1,1-Dichloroethane	50.0	53.8		ug/Kg	108	70 - 130	2	20			
1,2-Dichloroethane	50.0	57.0		ug/Kg	114	70 - 130	2	20			
1,1-Dichloroethene	50.0	51.5		ug/Kg	103	76 - 122	4	20			
cis-1,2-Dichloroethene	50.0	56.2		ug/Kg	112	70 - 138	3	20			
trans-1,2-Dichloroethene	50.0	51.2		ug/Kg	102	67 - 130	3	20			
1,2-Dichloropropane	50.0	52.8		ug/Kg	106	73 - 127	0	20			
cis-1,3-Dichloropropene	50.0	58.9		ug/Kg	118	68 - 147	1	20			
trans-1,3-Dichloropropene	50.0	58.9		ug/Kg	118	70 - 136	1	20			
Ethylbenzene	50.0	53.6		ug/Kg	107	80 - 137	3	20			
Hexachlorobutadiene	50.0	47.7		ug/Kg	95	70 - 132	6	20			
2-Hexanone	250	282		ug/Kg	113	44 - 133	10	20			
Isopropylbenzene	50.0	58.2		ug/Kg	116	88 - 128	4	20			
4-Isopropyltoluene	50.0	52.8		ug/Kg	106	70 - 133	6	20			
Methylene Chloride	50.0	52.2		ug/Kg	104	70 - 134	1	20			
4-Methyl-2-pentanone (MIBK)	250	287		ug/Kg	115	60 - 160	10	20			
Naphthalene	50.0	55.2		ug/Kg	110	60 - 147	1	20			
N-Propylbenzene	50.0	52.5		ug/Kg	105	70 - 130	7	20			
Styrene	50.0	59.7		ug/Kg	119	70 - 130	0	20			
1,1,1,2-Tetrachloroethane	50.0	55.0		ug/Kg	110	70 - 130	2	20			
1,1,2,2-Tetrachloroethane	50.0	54.3		ug/Kg	109	70 - 146	3	20			
Tetrachloroethene	50.0	54.1		ug/Kg	108	70 - 132	3	20			
Toluene	50.0	52.9		ug/Kg	106	80 - 128	4	20			
1,2,3-Trichlorobenzene	50.0	53.0		ug/Kg	106	60 - 140	3	20			
1,2,4-Trichlorobenzene	50.0	52.8		ug/Kg	106	60 - 140	2	20			
1,1,1-Trichloroethane	50.0	54.4		ug/Kg	109	70 - 130	5	20			
1,1,2-Trichloroethane	50.0	57.1		ug/Kg	114	70 - 130	2	20			
Trichloroethene	50.0	52.7		ug/Kg	105	70 - 133	4	20			
Trichlorofluoromethane	50.0	52.5		ug/Kg	105	60 - 140	4	20			
1,2,3-Trichloropropane	50.0	54.5		ug/Kg	109	70 - 146	0	20			
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/Kg	102	60 - 140	5	20			
1,2,4-Trimethylbenzene	50.0	55.5		ug/Kg	111	70 - 130	4	20			
1,3,5-Trimethylbenzene	50.0	55.4		ug/Kg	111	70 - 131	6	20			
Vinyl acetate	50.0	74.3		ug/Kg	149	38 - 176	5	20			
Vinyl chloride	50.0	48.8		ug/Kg	98	58 - 125	3	20			
m-Xylene & p-Xylene	100	111		ug/Kg	111	70 - 146	3	20			
o-Xylene	50.0	59.1		ug/Kg	118	70 - 140	2	20			
2,2-Dichloropropane	50.0	57.0		ug/Kg	114	70 - 162	6	20			

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-147272/6**

**Matrix: Solid**

**Analysis Batch: 147272**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	101				45 - 131
1,2-Dichloroethane-d4 (Surr)	109				60 - 140
Toluene-d8 (Surr)	96				58 - 140

**Lab Sample ID: LCSD 720-147272/8**

**Matrix: Solid**

**Analysis Batch: 147272**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1130		ug/Kg	113	61 - 128	3	20

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	98				45 - 131
1,2-Dichloroethane-d4 (Surr)	109				60 - 140
Toluene-d8 (Surr)	99				58 - 140

**Lab Sample ID: MB 720-147339/4**

**Matrix: Solid**

**Analysis Batch: 147339**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/30/13 08:50	1
Acetone	ND		50		ug/Kg			10/30/13 08:50	1
Benzene	ND		5.0		ug/Kg			10/30/13 08:50	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/30/13 08:50	1
Bromobenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
Chlorobromomethane	ND		20		ug/Kg			10/30/13 08:50	1
Bromoform	ND		5.0		ug/Kg			10/30/13 08:50	1
Bromomethane	ND		10		ug/Kg			10/30/13 08:50	1
2-Butanone (MEK)	ND		50		ug/Kg			10/30/13 08:50	1
n-Butylbenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
Carbon disulfide	ND		5.0		ug/Kg			10/30/13 08:50	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/30/13 08:50	1
Chlorobenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
Chloroethane	ND		10		ug/Kg			10/30/13 08:50	1
Chloroform	ND		5.0		ug/Kg			10/30/13 08:50	1
Chloromethane	ND		10		ug/Kg			10/30/13 08:50	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/30/13 08:50	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/30/13 08:50	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/30/13 08:50	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/30/13 08:50	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/30/13 08:50	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/30/13 08:50	1

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-147339/4**

**Matrix: Solid**

**Analysis Batch: 147339**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		10/30/13 08:50		1
Ethylene Dibromide	ND		5.0		ug/Kg		10/30/13 08:50		1
Dibromomethane	ND		10		ug/Kg		10/30/13 08:50		1
Dichlorodifluoromethane	ND		10		ug/Kg		10/30/13 08:50		1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/30/13 08:50		1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/30/13 08:50		1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/30/13 08:50		1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/30/13 08:50		1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/30/13 08:50		1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/30/13 08:50		1
Ethylbenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
Hexachlorobutadiene	ND		5.0		ug/Kg		10/30/13 08:50		1
2-Hexanone	ND		50		ug/Kg		10/30/13 08:50		1
Isopropylbenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
4-Isopropyltoluene	ND		5.0		ug/Kg		10/30/13 08:50		1
Methylene Chloride	ND		10		ug/Kg		10/30/13 08:50		1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/30/13 08:50		1
Naphthalene	ND		10		ug/Kg		10/30/13 08:50		1
N-Propylbenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
Styrene	ND		5.0		ug/Kg		10/30/13 08:50		1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
Tetrachloroethene	ND		5.0		ug/Kg		10/30/13 08:50		1
Toluene	ND		5.0		ug/Kg		10/30/13 08:50		1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
Trichloroethene	ND		5.0		ug/Kg		10/30/13 08:50		1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/30/13 08:50		1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/30/13 08:50		1
Vinyl acetate	ND		50		ug/Kg		10/30/13 08:50		1
Vinyl chloride	ND		5.0		ug/Kg		10/30/13 08:50		1
Xylenes, Total	ND		10		ug/Kg		10/30/13 08:50		1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/30/13 08:50		1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/30/13 08:50		1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	79		45 - 131		10/30/13 08:50	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140		10/30/13 08:50	1
Toluene-d8 (Surr)	86		58 - 140		10/30/13 08:50	1

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-147339/5** **Client Sample ID: Lab Control Sample**  
**Matrix: Solid** **Prep Type: Total/NA**  
**Analysis Batch: 147339**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Methyl tert-butyl ether	50.0	55.2		ug/Kg		110	70 - 144	
Acetone	250	303		ug/Kg		121	30 - 162	
Benzene	50.0	49.9		ug/Kg		100	70 - 130	
Dichlorobromomethane	50.0	57.3		ug/Kg		115	70 - 131	
Bromobenzene	50.0	49.2		ug/Kg		98	70 - 130	
Chlorobromomethane	50.0	54.5		ug/Kg		109	70 - 130	
Bromoform	50.0	58.3		ug/Kg		117	59 - 158	
Bromomethane	50.0	52.7		ug/Kg		105	59 - 132	
2-Butanone (MEK)	250	309		ug/Kg		123	53 - 124	
n-Butylbenzene	50.0	52.8		ug/Kg		106	70 - 142	
sec-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 136	
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 130	
Carbon disulfide	50.0	50.0		ug/Kg		100	60 - 140	
Carbon tetrachloride	50.0	51.5		ug/Kg		103	70 - 138	
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130	
Chloroethane	50.0	54.3		ug/Kg		109	65 - 130	
Chloroform	50.0	53.2		ug/Kg		106	77 - 127	
Chloromethane	50.0	56.8		ug/Kg		114	55 - 140	
2-Chlorotoluene	50.0	50.5		ug/Kg		101	70 - 138	
4-Chlorotoluene	50.0	51.8		ug/Kg		104	70 - 136	
Chlorodibromomethane	50.0	62.0		ug/Kg		124	70 - 146	
1,2-Dichlorobenzene	50.0	50.7		ug/Kg		101	70 - 130	
1,3-Dichlorobenzene	50.0	50.2		ug/Kg		100	70 - 131	
1,4-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 130	
1,3-Dichloropropane	50.0	59.4		ug/Kg		119	70 - 140	
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 130	
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg		106	60 - 145	
Ethylene Dibromide	50.0	60.0		ug/Kg		120	70 - 140	
Dibromomethane	50.0	60.2		ug/Kg		120	70 - 139	
Dichlorodifluoromethane	50.0	62.1		ug/Kg		124	37 - 158	
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 130	
1,2-Dichloroethane	50.0	57.3		ug/Kg		115	70 - 130	
1,1-Dichloroethene	50.0	48.4		ug/Kg		97	76 - 122	
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 138	
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	67 - 130	
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	73 - 127	
cis-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	68 - 147	
trans-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	70 - 136	
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137	
Hexachlorobutadiene	50.0	44.8		ug/Kg		90	70 - 132	
2-Hexanone	250	330		ug/Kg		132	44 - 133	
Isopropylbenzene	50.0	52.7		ug/Kg		105	88 - 128	
4-Isopropyltoluene	50.0	49.7		ug/Kg		99	70 - 133	
Methylene Chloride	50.0	51.9		ug/Kg		104	70 - 134	
4-Methyl-2-pentanone (MIBK)	250	326		ug/Kg		130	60 - 160	
Naphthalene	50.0	53.6		ug/Kg		107	60 - 147	
N-Propylbenzene	50.0	50.4		ug/Kg		101	70 - 130	
Styrene	50.0	57.2		ug/Kg		114	70 - 130	

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-147339/5**

**Client Sample ID: Lab Control Sample**

**Matrix: Solid**

**Analysis Batch: 147339**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
				ug/Kg			Limits
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	58.7		ug/Kg		117	70 - 146
Tetrachloroethene	50.0	51.6		ug/Kg		103	70 - 132
Toluene	50.0	48.6		ug/Kg		97	80 - 128
1,2,3-Trichlorobenzene	50.0	49.3		ug/Kg		99	60 - 140
1,2,4-Trichlorobenzene	50.0	49.3		ug/Kg		99	60 - 140
1,1,1-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 130
1,1,2-Trichloroethane	50.0	59.6		ug/Kg		119	70 - 130
Trichloroethene	50.0	51.5		ug/Kg		103	70 - 133
Trichlorofluoromethane	50.0	55.4		ug/Kg		111	60 - 140
1,2,3-Trichloropropane	50.0	58.8		ug/Kg		118	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.3		ug/Kg		95	60 - 140
1,2,4-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 131
Vinyl acetate	50.0	69.0		ug/Kg		138	38 - 176
Vinyl chloride	50.0	55.3		ug/Kg		111	58 - 125
m-Xylene & p-Xylene	100	102		ug/Kg		102	70 - 146
o-Xylene	50.0	53.5		ug/Kg		107	70 - 140
2,2-Dichloropropane	50.0	55.0		ug/Kg		110	70 - 162

**LCS LCS**

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	110		60 - 140
Toluene-d8 (Surr)	95		58 - 140

**Lab Sample ID: LCS 720-147339/7**

**Client Sample ID: Lab Control Sample**

**Matrix: Solid**

**Analysis Batch: 147339**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
				ug/Kg			Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1110		ug/Kg		111	61 - 128

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	95		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: LCSD 720-147339/6**

**Client Sample ID: Lab Control Sample Dup**

**Matrix: Solid**

**Analysis Batch: 147339**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
				ug/Kg			Limits	RPD	
Methyl tert-butyl ether	50.0	60.1		ug/Kg		120	70 - 144	8	20
Acetone	250	327		ug/Kg		131	30 - 162	7	30
Benzene	50.0	53.9		ug/Kg		108	70 - 130	8	20
Dichlorobromomethane	50.0	61.6		ug/Kg		123	70 - 131	7	20

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-147339/6

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 147339

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Bromobenzene	50.0	54.7		ug/Kg	109	70 - 130	11	20	
Chlorobromomethane	50.0	57.6		ug/Kg	115	70 - 130	5	20	
Bromoform	50.0	62.7		ug/Kg	125	59 - 158	7	20	
Bromomethane	50.0	57.9		ug/Kg	116	59 - 132	9	20	
2-Butanone (MEK)	250	327 *		ug/Kg	131	53 - 124	6	20	
n-Butylbenzene	50.0	57.5		ug/Kg	115	70 - 142	8	20	
sec-Butylbenzene	50.0	54.2		ug/Kg	108	70 - 136	9	20	
tert-Butylbenzene	50.0	55.1		ug/Kg	110	70 - 130	8	20	
Carbon disulfide	50.0	54.2		ug/Kg	108	60 - 140	8	20	
Carbon tetrachloride	50.0	55.3		ug/Kg	111	70 - 138	7	20	
Chlorobenzene	50.0	54.0		ug/Kg	108	70 - 130	8	20	
Chloroethane	50.0	58.3		ug/Kg	117	65 - 130	7	20	
Chloroform	50.0	57.4		ug/Kg	115	77 - 127	8	20	
Chloromethane	50.0	63.6		ug/Kg	127	55 - 140	11	20	
2-Chlorotoluene	50.0	55.7		ug/Kg	111	70 - 138	10	20	
4-Chlorotoluene	50.0	56.6		ug/Kg	113	70 - 136	9	20	
Chlorodibromomethane	50.0	64.5		ug/Kg	129	70 - 146	4	20	
1,2-Dichlorobenzene	50.0	54.5		ug/Kg	109	70 - 130	7	20	
1,3-Dichlorobenzene	50.0	54.7		ug/Kg	109	70 - 131	9	20	
1,4-Dichlorobenzene	50.0	53.2		ug/Kg	106	70 - 130	7	20	
1,3-Dichloropropane	50.0	62.4		ug/Kg	125	70 - 140	5	20	
1,1-Dichloropropene	50.0	53.8		ug/Kg	108	70 - 130	7	20	
1,2-Dibromo-3-Chloropropane	50.0	56.2		ug/Kg	112	60 - 145	6	20	
Ethylene Dibromide	50.0	64.6		ug/Kg	129	70 - 140	7	20	
Dibromomethane	50.0	62.8		ug/Kg	126	70 - 139	4	20	
Dichlorodifluoromethane	50.0	69.7		ug/Kg	139	37 - 158	11	20	
1,1-Dichloroethane	50.0	54.2		ug/Kg	108	70 - 130	9	20	
1,2-Dichloroethane	50.0	61.9		ug/Kg	124	70 - 130	8	20	
1,1-Dichloroethene	50.0	51.8		ug/Kg	104	76 - 122	7	20	
cis-1,2-Dichloroethene	50.0	56.4		ug/Kg	113	70 - 138	7	20	
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg	105	67 - 130	8	20	
1,2-Dichloropropane	50.0	55.9		ug/Kg	112	73 - 127	7	20	
cis-1,3-Dichloropropene	50.0	61.8		ug/Kg	124	68 - 147	8	20	
trans-1,3-Dichloropropene	50.0	61.8		ug/Kg	124	70 - 136	8	20	
Ethylbenzene	50.0	54.7		ug/Kg	109	80 - 137	8	20	
Hexachlorobutadiene	50.0	47.8		ug/Kg	96	70 - 132	6	20	
2-Hexanone	250	350 *		ug/Kg	140	44 - 133	6	20	
Isopropylbenzene	50.0	56.6		ug/Kg	113	88 - 128	7	20	
4-Isopropyltoluene	50.0	53.9		ug/Kg	108	70 - 133	8	20	
Methylene Chloride	50.0	55.4		ug/Kg	111	70 - 134	7	20	
4-Methyl-2-pentanone (MIBK)	250	345		ug/Kg	138	60 - 160	6	20	
Naphthalene	50.0	59.2		ug/Kg	118	60 - 147	10	20	
N-Propylbenzene	50.0	55.3		ug/Kg	111	70 - 130	9	20	
Styrene	50.0	61.4		ug/Kg	123	70 - 130	7	20	
1,1,1,2-Tetrachloroethane	50.0	56.3		ug/Kg	113	70 - 130	8	20	
1,1,2,2-Tetrachloroethane	50.0	63.6		ug/Kg	127	70 - 146	8	20	
Tetrachloroethene	50.0	54.1		ug/Kg	108	70 - 132	5	20	
Toluene	50.0	52.7		ug/Kg	105	80 - 128	8	20	

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-147339/6		Client Sample ID: Lab Control Sample Dup							
Matrix: Solid		Prep Type: Total/NA							
Analysis Batch: 147339		Spike	LCSD	LCSD		%Rec.	RPD	RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,2,3-Trichlorobenzene		50.0	53.2		ug/Kg	106	60 - 140	8	20
1,2,4-Trichlorobenzene		50.0	53.3		ug/Kg	107	60 - 140	8	20
1,1,1-Trichloroethane		50.0	54.9		ug/Kg	110	70 - 130	7	20
1,1,2-Trichloroethane		50.0	62.1		ug/Kg	124	70 - 130	4	20
Trichloroethene		50.0	54.1		ug/Kg	108	70 - 133	5	20
Trichlorofluoromethane		50.0	60.5		ug/Kg	121	60 - 140	9	20
1,2,3-Trichloropropane		50.0	60.5		ug/Kg	121	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroetha		50.0	51.2		ug/Kg	102	60 - 140	8	20
ne									
1,2,4-Trimethylbenzene		50.0	57.8		ug/Kg	116	70 - 130	9	20
1,3,5-Trimethylbenzene		50.0	56.7		ug/Kg	113	70 - 131	9	20
Vinyl acetate		50.0	75.3		ug/Kg	151	38 - 176	9	20
Vinyl chloride		50.0	61.7		ug/Kg	123	58 - 125	11	20
m-Xylene & p-Xylene		100	111		ug/Kg	111	70 - 146	8	20
o-Xylene		50.0	57.6		ug/Kg	115	70 - 140	7	20
2,2-Dichloropropane		50.0	57.8		ug/Kg	116	70 - 162	5	20
<b>Surrogate</b>		<b>LCSD</b>	<b>LCSD</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene		101		45 - 131					
1,2-Dichloroethane-d4 (Surr)		109		60 - 140					
Toluene-d8 (Surr)		96		58 - 140					

Lab Sample ID: LCSD 720-147339/8		Client Sample ID: Lab Control Sample Dup							
Matrix: Solid		Prep Type: Total/NA							
Analysis Batch: 147339		Spike	LCSD	LCSD		%Rec.	RPD	RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)		1000	1140		ug/Kg	114	61 - 128	3	20
-C5-C12									
<b>Surrogate</b>		<b>LCSD</b>	<b>LCSD</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene		93		45 - 131					
1,2-Dichloroethane-d4 (Surr)		103		60 - 140					
Toluene-d8 (Surr)		98		58 - 140					

Lab Sample ID: MB 720-147393/4		Client Sample ID: Method Blank						
Matrix: Solid		Prep Type: Total/NA						
Analysis Batch: 147393		MB	MB					
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared
Methyl tert-butyl ether		ND		5.0		ug/Kg		10/30/13 20:45
Acetone		ND		50		ug/Kg		10/30/13 20:45
Benzene		ND		5.0		ug/Kg		10/30/13 20:45
Dichlorobromomethane		ND		5.0		ug/Kg		10/30/13 20:45
Bromobenzene		ND		5.0		ug/Kg		10/30/13 20:45
Chlorobromomethane		ND		20		ug/Kg		10/30/13 20:45
Bromoform		ND		5.0		ug/Kg		10/30/13 20:45
Bromomethane		ND		10		ug/Kg		10/30/13 20:45

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
 Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-147393/4**

**Matrix: Solid**

**Analysis Batch: 147393**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/Kg		10/30/13 20:45		1
n-Butylbenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
sec-Butylbenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
tert-Butylbenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
Carbon disulfide	ND		5.0		ug/Kg		10/30/13 20:45		1
Carbon tetrachloride	ND		5.0		ug/Kg		10/30/13 20:45		1
Chlorobenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
Chloroethane	ND		10		ug/Kg		10/30/13 20:45		1
Chloroform	ND		5.0		ug/Kg		10/30/13 20:45		1
Chloromethane	ND		10		ug/Kg		10/30/13 20:45		1
2-Chlorotoluene	ND		5.0		ug/Kg		10/30/13 20:45		1
4-Chlorotoluene	ND		5.0		ug/Kg		10/30/13 20:45		1
Chlorodibromomethane	ND		5.0		ug/Kg		10/30/13 20:45		1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/30/13 20:45		1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		10/30/13 20:45		1
Ethylene Dibromide	ND		5.0		ug/Kg		10/30/13 20:45		1
Dibromomethane	ND		10		ug/Kg		10/30/13 20:45		1
Dichlorodifluoromethane	ND		10		ug/Kg		10/30/13 20:45		1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/30/13 20:45		1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/30/13 20:45		1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/30/13 20:45		1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/30/13 20:45		1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/30/13 20:45		1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/30/13 20:45		1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/30/13 20:45		1
Ethylbenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
Hexachlorobutadiene	ND		5.0		ug/Kg		10/30/13 20:45		1
2-Hexanone	ND		50		ug/Kg		10/30/13 20:45		1
Isopropylbenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
4-Isopropyltoluene	ND		5.0		ug/Kg		10/30/13 20:45		1
Methylene Chloride	ND		10		ug/Kg		10/30/13 20:45		1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/30/13 20:45		1
Naphthalene	ND		10		ug/Kg		10/30/13 20:45		1
N-Propylbenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
Styrene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/30/13 20:45		1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		10/30/13 20:45		1
Tetrachloroethene	ND		5.0		ug/Kg		10/30/13 20:45		1
Toluene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		10/30/13 20:45		1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/30/13 20:45		1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/30/13 20:45		1

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-147393/4**

**Matrix: Solid**

**Analysis Batch: 147393**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0		ug/Kg			10/30/13 20:45	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/30/13 20:45	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/30/13 20:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/30/13 20:45	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/30/13 20:45	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/30/13 20:45	1
Vinyl acetate	ND		50		ug/Kg			10/30/13 20:45	1
Vinyl chloride	ND		5.0		ug/Kg			10/30/13 20:45	1
Xylenes, Total	ND		10		ug/Kg			10/30/13 20:45	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/30/13 20:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/30/13 20:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		45 - 131					10/30/13 20:45	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140					10/30/13 20:45	1
Toluene-d8 (Surr)	95		58 - 140					10/30/13 20:45	1

**Lab Sample ID: LCS 720-147393/5**

**Matrix: Solid**

**Analysis Batch: 147393**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Methyl tert-butyl ether	50.0	50.2		ug/Kg		100	70 - 144
Acetone	250	199		ug/Kg		80	30 - 162
Benzene	50.0	46.3		ug/Kg		93	70 - 130
Dichlorobromomethane	50.0	48.4		ug/Kg		97	70 - 131
Bromobenzene	50.0	48.7		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	53.2		ug/Kg		106	70 - 130
Bromoform	50.0	53.8		ug/Kg		108	59 - 158
Bromomethane	50.0	41.7		ug/Kg		83	59 - 132
2-Butanone (MEK)	250	226		ug/Kg		91	53 - 124
n-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 130
Carbon disulfide	50.0	46.8		ug/Kg		94	60 - 140
Carbon tetrachloride	50.0	51.6		ug/Kg		103	70 - 138
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chloroethane	50.0	39.8		ug/Kg		80	65 - 130
Chloroform	50.0	48.4		ug/Kg		97	77 - 127
Chloromethane	50.0	39.0		ug/Kg		78	55 - 140
2-Chlorotoluene	50.0	47.1		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	46.3		ug/Kg		93	70 - 136
Chlorodibromomethane	50.0	55.8		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 130
1,3-Dichloropropane	50.0	49.6		ug/Kg		99	70 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-147393/5

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 147393

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,1-Dichloropropene	50.0	48.8		ug/Kg		98	70 - 130	
1,2-Dibromo-3-Chloropropane	50.0	55.2		ug/Kg		110	60 - 145	
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140	
Dibromomethane	50.0	52.5		ug/Kg		105	70 - 139	
Dichlorodifluoromethane	50.0	40.1		ug/Kg		80	37 - 158	
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 130	
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	70 - 130	
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	76 - 122	
cis-1,2-Dichloroethene	50.0	47.4		ug/Kg		95	70 - 138	
trans-1,2-Dichloroethene	50.0	48.2		ug/Kg		96	67 - 130	
1,2-Dichloropropane	50.0	45.9		ug/Kg		92	73 - 127	
cis-1,3-Dichloropropene	50.0	48.4		ug/Kg		97	68 - 147	
trans-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	70 - 136	
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 137	
Hexachlorobutadiene	50.0	46.6		ug/Kg		93	70 - 132	
2-Hexanone	250	222		ug/Kg		89	44 - 133	
Isopropylbenzene	50.0	50.9		ug/Kg		102	88 - 128	
4-Isopropyltoluene	50.0	49.1		ug/Kg		98	70 - 133	
Methylene Chloride	50.0	43.6		ug/Kg		87	70 - 134	
4-Methyl-2-pentanone (MIBK)	250	228		ug/Kg		91	60 - 160	
Naphthalene	50.0	53.8		ug/Kg		108	60 - 147	
N-Propylbenzene	50.0	46.6		ug/Kg		93	70 - 130	
Styrene	50.0	43.8		ug/Kg		88	70 - 130	
1,1,1,2-Tetrachloroethane	50.0	52.0		ug/Kg		104	70 - 130	
1,1,2,2-Tetrachloroethane	50.0	47.1		ug/Kg		94	70 - 146	
Tetrachloroethene	50.0	54.3		ug/Kg		109	70 - 132	
Toluene	50.0	47.1		ug/Kg		94	80 - 128	
1,2,3-Trichlorobenzene	50.0	50.6		ug/Kg		101	60 - 140	
1,2,4-Trichlorobenzene	50.0	49.5		ug/Kg		99	60 - 140	
1,1,1-Trichloroethane	50.0	50.1		ug/Kg		100	70 - 130	
1,1,2-Trichloroethane	50.0	50.3		ug/Kg		101	70 - 130	
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 133	
Trichlorofluoromethane	50.0	47.1		ug/Kg		94	60 - 140	
1,2,3-Trichloropropane	50.0	50.4		ug/Kg		101	70 - 146	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.1		ug/Kg		108	60 - 140	
ne								
1,2,4-Trimethylbenzene	50.0	49.2		ug/Kg		98	70 - 130	
1,3,5-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 131	
Vinyl acetate	50.0	55.1		ug/Kg		110	38 - 176	
Vinyl chloride	50.0	36.6		ug/Kg		73	58 - 125	
m-Xylene & p-Xylene	100	94.7		ug/Kg		95	70 - 146	
o-Xylene	50.0	50.7		ug/Kg		101	70 - 140	
2,2-Dichloropropane	50.0	47.3		ug/Kg		95	70 - 162	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	98		58 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-147393/7				Client Sample ID: Lab Control Sample Prep Type: Total/NA							
Matrix: Solid		Analysis Batch: 147393		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Analyte				1000	886		ug/Kg		89	61 - 128	
Gasoline Range Organics (GRO)											
-C5-C12											
Surrogate					LCS	LCS					
					%Recovery	Qualifier					
4-Bromofluorobenzene					97		45 - 131				
1,2-Dichloroethane-d4 (Surr)					96		60 - 140				
Toluene-d8 (Surr)					97		58 - 140				

Lab Sample ID: LCSD 720-147393/6				Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA							
Matrix: Solid		Analysis Batch: 147393		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Methyl tert-butyl ether				50.0	50.5		ug/Kg		101	70 - 144	0
Acetone				250	214		ug/Kg		86	30 - 162	7
Benzene				50.0	46.2		ug/Kg		92	70 - 130	0
Dichlorobromomethane				50.0	48.5		ug/Kg		97	70 - 131	0
Bromobenzene				50.0	50.3		ug/Kg		101	70 - 130	3
Chlorobromomethane				50.0	53.0		ug/Kg		106	70 - 130	0
Bromoform				50.0	54.0		ug/Kg		108	59 - 158	0
Bromomethane				50.0	45.3		ug/Kg		91	59 - 132	8
2-Butanone (MEK)				250	222		ug/Kg		89	53 - 124	2
n-Butylbenzene				50.0	48.9		ug/Kg		98	70 - 142	2
sec-Butylbenzene				50.0	49.7		ug/Kg		99	70 - 136	3
tert-Butylbenzene				50.0	51.3		ug/Kg		103	70 - 130	3
Carbon disulfide				50.0	46.4		ug/Kg		93	60 - 140	1
Carbon tetrachloride				50.0	51.1		ug/Kg		102	70 - 138	1
Chlorobenzene				50.0	50.1		ug/Kg		100	70 - 130	1
Chloroethane				50.0	42.0		ug/Kg		84	65 - 130	6
Chloroform				50.0	48.2		ug/Kg		96	77 - 127	1
Chloromethane				50.0	41.1		ug/Kg		82	55 - 140	5
2-Chlorotoluene				50.0	48.9		ug/Kg		98	70 - 138	4
4-Chlorotoluene				50.0	47.4		ug/Kg		95	70 - 136	2
Chlorodibromomethane				50.0	55.1		ug/Kg		110	70 - 146	1
1,2-Dichlorobenzene				50.0	51.1		ug/Kg		102	70 - 130	1
1,3-Dichlorobenzene				50.0	50.3		ug/Kg		101	70 - 131	2
1,4-Dichlorobenzene				50.0	51.0		ug/Kg		102	70 - 130	2
1,3-Dichloropropane				50.0	49.8		ug/Kg		100	70 - 140	0
1,1-Dichloropropene				50.0	49.0		ug/Kg		98	70 - 130	0
1,2-Dibromo-3-Chloropropane				50.0	55.9		ug/Kg		112	60 - 145	1
Ethylene Dibromide				50.0	54.6		ug/Kg		109	70 - 140	2
Dibromomethane				50.0	52.2		ug/Kg		104	70 - 139	1
Dichlorodifluoromethane				50.0	42.1		ug/Kg		84	37 - 158	5
1,1-Dichloroethane				50.0	46.5		ug/Kg		93	70 - 130	1
1,2-Dichloroethane				50.0	47.7		ug/Kg		95	70 - 130	1
1,1-Dichloroethene				50.0	49.2		ug/Kg		98	76 - 122	0
cis-1,2-Dichloroethene				50.0	47.1		ug/Kg		94	70 - 138	1
trans-1,2-Dichloroethene				50.0	48.2		ug/Kg		96	67 - 130	0

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-147393/6**  
**Matrix: Solid**  
**Analysis Batch: 147393**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
1,2-Dichloropropane	50.0	45.4		ug/Kg		91	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	51.5		ug/Kg		103	70 - 136	0	20
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 137	0	20
Hexachlorobutadiene	50.0	48.1		ug/Kg		96	70 - 132	3	20
2-Hexanone	250	218		ug/Kg		87	44 - 133	2	20
Isopropylbenzene	50.0	50.4		ug/Kg		101	88 - 128	1	20
4-Isopropyltoluene	50.0	50.5		ug/Kg		101	70 - 133	3	20
Methylene Chloride	50.0	43.9		ug/Kg		88	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	226		ug/Kg		91	60 - 160	1	20
Naphthalene	50.0	54.6		ug/Kg		109	60 - 147	1	20
N-Propylbenzene	50.0	47.8		ug/Kg		96	70 - 130	3	20
Styrene	50.0	44.2		ug/Kg		88	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	70 - 146	1	20
Tetrachloroethene	50.0	53.5		ug/Kg		107	70 - 132	1	20
Toluene	50.0	47.1		ug/Kg		94	80 - 128	0	20
1,2,3-Trichlorobenzene	50.0	51.9		ug/Kg		104	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 140	4	20
1,1,1-Trichloroethane	50.0	49.6		ug/Kg		99	70 - 130	1	20
1,1,2-Trichloroethane	50.0	50.7		ug/Kg		101	70 - 130	1	20
Trichloroethene	50.0	51.2		ug/Kg		102	70 - 133	0	20
Trichlorofluoromethane	50.0	46.3		ug/Kg		93	60 - 140	2	20
1,2,3-Trichloropropane	50.0	51.6		ug/Kg		103	70 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.8		ug/Kg		108	60 - 140	1	20
ne									
1,2,4-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	51.0		ug/Kg		102	70 - 131	4	20
Vinyl acetate	50.0	ND		ug/Kg		91	38 - 176	20	20
Vinyl chloride	50.0	39.8		ug/Kg		80	58 - 125	8	20
m-Xylene & p-Xylene	100	94.0		ug/Kg		94	70 - 146	1	20
o-Xylene	50.0	50.3		ug/Kg		101	70 - 140	1	20
2,2-Dichloropropane	50.0	47.8		ug/Kg		96	70 - 162	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: LCSD 720-147393/8**  
**Matrix: Solid**  
**Analysis Batch: 147393**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	888		ug/Kg		89	61 - 128	0	20

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID:** LCSD 720-147393/8

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA

**Matrix:** Solid

**Analysis Batch:** 147393

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
4-Bromofluorobenzene			97		45 - 131
1,2-Dichloroethane-d4 (Surr)			93		60 - 140
Toluene-d8 (Surr)			96		58 - 140

### Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID:** MB 720-147350/1-A

**Client Sample ID:** Method Blank

**Matrix:** Solid

**Analysis Batch:** 147340

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 147350

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND				1.0	mg/Kg		10/30/13 08:46		10/31/13 01:42	1	
Motor Oil Range Organics [C24-C36]	ND				50	mg/Kg		10/30/13 08:46		10/31/13 01:42	1	
Surrogate	MB	MB	%Recovery	Qualifier	Limits							
Capric Acid (Surr)	0.0009				0 - 1			10/30/13 08:46		10/31/13 01:42	1	
p-Terphenyl	113				38 - 148			10/30/13 08:46		10/31/13 01:42	1	

**Lab Sample ID:** MB 720-147350/1-A

**Client Sample ID:** Method Blank

**Matrix:** Solid

**Analysis Batch:** 147348

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 147350

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND				1.0	mg/Kg		10/30/13 08:46		10/31/13 02:13	1	
Motor Oil Range Organics [C24-C36]	ND				50	mg/Kg		10/30/13 08:46		10/31/13 02:13	1	
Surrogate	MB	MB	%Recovery	Qualifier	Limits							
Capric Acid (Surr)	0.007				0 - 1			10/30/13 08:46		10/31/13 02:13	1	
p-Terphenyl	100				38 - 148			10/30/13 08:46		10/31/13 02:13	1	

**Lab Sample ID:** LCS 720-147350/2-A

**Client Sample ID:** Lab Control Sample

**Matrix:** Solid

**Analysis Batch:** 147348

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 147350

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limts
Diesel Range Organics [C10-C28]	82.5	82.5	82.5	61.5		mg/Kg	75		36 - 112
Surrogate	Added	Added	Added	Result	Qualifier	Unit	D	%Rec	Limts
p-Terphenyl	106	106	106	38 - 148					

TestAmerica Pleasanton

## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-147350/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Silica Gel Cleanup						
Analysis Batch: 147348				Prep Batch: 147350						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD	Limit	Limit
Diesel Range Organics [C10-C28]	82.4	66.5		mg/Kg	81	36 - 112	8	8	35	
<b>Surrogate</b>	<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
p-Terphenyl	108			38 - 148						

Lab Sample ID: MB 720-147447/1-A				Client Sample ID: Method Blank						
Matrix: Solid				Prep Type: Silica Gel Cleanup						
Analysis Batch: 147436				Prep Batch: 147447						
Analyte	MB Result	MB Qualifier	MB RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/31/13 09:10	11/01/13 01:52	1	
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/31/13 09:10	11/01/13 01:52	1	
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
Capric Acid (Surrogate)	0.001		0 - 1				10/31/13 09:10	11/01/13 01:52	1	
p-Terphenyl	124		38 - 148				10/31/13 09:10	11/01/13 01:52	1	

Lab Sample ID: LCS 720-147447/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Silica Gel Cleanup						
Analysis Batch: 147436				Prep Batch: 147447						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD	Limit	Limit
Diesel Range Organics [C10-C28]	83.3	66.2		mg/Kg	80	36 - 112	8	8	35	
<b>Surrogate</b>	<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
p-Terphenyl	97		38 - 148							

Lab Sample ID: LCSD 720-147447/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Silica Gel Cleanup						
Analysis Batch: 147436				Prep Batch: 147447						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD	Limit	Limit
Diesel Range Organics [C10-C28]	82.9	71.9		mg/Kg	87	36 - 112	8	8	35	
<b>Surrogate</b>	<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
p-Terphenyl	98		38 - 148							

Lab Sample ID: MB 720-147566/1-A				Client Sample ID: Method Blank						
Matrix: Solid				Prep Type: Silica Gel Cleanup						
Analysis Batch: 147624				Prep Batch: 147566						
Analyte	MB Result	MB Qualifier	MB RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		11/02/13 14:22	11/04/13 15:27	1	
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		11/02/13 14:22	11/04/13 15:27	1	

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## QC Sample Results

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID:** MB 720-147566/1-A

**Matrix:** Solid

**Analysis Batch:** 147624

**Client Sample ID:** Method Blank

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 147566

Surrogate	MB	MB	%Recovery	Qualifier	Limits
Capric Acid (Sur)			0.003		0 - 1
p-Terphenyl			125		38 - 148

**Prepared:** 11/02/13 14:22    **Analyzed:** 11/04/13 15:27    **Dil Fac:** 1

**Lab Sample ID:** LCS 720-147566/2-A

**Matrix:** Solid

**Analysis Batch:** 147624

**Client Sample ID:** Lab Control Sample

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 147566

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]		82.7	71.1	mg/Kg		86	36 - 112

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
p-Terphenyl		123			38 - 148

**Lab Sample ID:** LCSD 720-147566/3-A

**Matrix:** Solid

**Analysis Batch:** 147625

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 147566

Analyte	Spike	LCSD	LCSD	%Rec.	RPD				
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]		82.4	75.8	mg/Kg		92	36 - 112	6	35

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
p-Terphenyl		121			38 - 148

### Method: 6010B - Metals (ICP)

**Lab Sample ID:** MB 720-147197/1-A

**Matrix:** Solid

**Analysis Batch:** 147271

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 147197

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							mg/Kg				
Lead			ND		0.50		mg/Kg		10/28/13 16:03	10/29/13 12:07	1

**Lab Sample ID:** LCS 720-147197/2-A

**Matrix:** Solid

**Analysis Batch:** 147271

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 147197

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Lead		50.0	49.0	mg/Kg		98	80 - 120

**Lab Sample ID:** LCSD 720-147197/3-A

**Matrix:** Solid

**Analysis Batch:** 147271

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

**Prep Batch:** 147197

Analyte	Spike	LCSD	LCSD	%Rec.	RPD				
	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead		50.0	51.8	mg/Kg		104	80 - 120	6	20

TestAmerica Pleasanton

## QC Association Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### GC/MS VOA

#### Analysis Batch: 147272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-4	B1-16'	Total/NA	Solid	8260B/CA_LUFT MS	147303
720-53309-18	B3-4'	Total/NA	Solid	8260B/CA_LUFT MS	147303
LCS 720-147272/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-147272/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-147272/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-147272/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-147272/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

#### Prep Batch: 147303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-4	B1-16'	Total/NA	Solid	5030B	
720-53309-18	B3-4'	Total/NA	Solid	5030B	

#### Analysis Batch: 147339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-23	B4-4'	Total/NA	Solid	8260B/CA_LUFT MS	147363
720-53309-28	B5-4'	Total/NA	Solid	8260B/CA_LUFT MS	147363
720-53309-33	B6-4'	Total/NA	Solid	8260B/CA_LUFT MS	147363
LCS 720-147339/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-147339/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-147339/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-147339/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-147339/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

#### Prep Batch: 147363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-23	B4-4'	Total/NA	Solid	5030B	
720-53309-28	B5-4'	Total/NA	Solid	5030B	
720-53309-33	B6-4'	Total/NA	Solid	5030B	

#### Analysis Batch: 147393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-1	B1-4'	Total/NA	Solid	8260B/CA_LUFT MS	147425
720-53309-12	B2-4'	Total/NA	Solid	8260B/CA_LUFT MS	147425
LCS 720-147393/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-147393/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	

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## QC Association Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### GC/MS VOA (Continued)

#### Analysis Batch: 147393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-147393/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	
LCSD 720-147393/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	
MB 720-147393/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT	

#### Prep Batch: 147425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-1	B1-4'	Total/NA	Solid	5030B	
720-53309-12	B2-4'	Total/NA	Solid	5030B	

### GC Semi VOA

#### Analysis Batch: 147340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147350

#### Analysis Batch: 147341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-1	B1-4'	Silica Gel Cleanup	Solid	8015B	147350
720-53309-4	B1-16'	Silica Gel Cleanup	Solid	8015B	147350
720-53309-12	B2-4'	Silica Gel Cleanup	Solid	8015B	147350
720-53309-18	B3-4'	Silica Gel Cleanup	Solid	8015B	147350
720-53309-23	B4-4'	Silica Gel Cleanup	Solid	8015B	147350

#### Analysis Batch: 147348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147350/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147350
LCSD 720-147350/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147350
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147350

#### Prep Batch: 147350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-1	B1-4'	Silica Gel Cleanup	Solid	3546	
720-53309-4	B1-16'	Silica Gel Cleanup	Solid	3546	
720-53309-12	B2-4'	Silica Gel Cleanup	Solid	3546	
720-53309-18	B3-4'	Silica Gel Cleanup	Solid	3546	
720-53309-23	B4-4'	Silica Gel Cleanup	Solid	3546	
LCS 720-147350/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147350/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

#### Analysis Batch: 147436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-33	B6-4'	Silica Gel Cleanup	Solid	8015B	147447
LCS 720-147447/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147447
LCSD 720-147447/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147447
MB 720-147447/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147447

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TestAmerica Pleasanton

## QC Association Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### GC Semi VOA (Continued)

#### Prep Batch: 147447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-33	B6-4'	Silica Gel Cleanup	Solid	3546	
LCS 720-147447/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147447/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147447/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

#### Prep Batch: 147566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-28	B5-4'	Silica Gel Cleanup	Solid	3546	
LCS 720-147566/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147566/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147566/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

#### Analysis Batch: 147624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147566/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147566
MB 720-147566/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147566

#### Analysis Batch: 147625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-147566/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147566

#### Analysis Batch: 147628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-28	B5-4'	Silica Gel Cleanup	Solid	8015B	147566

## Metals

#### Prep Batch: 147197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-1	B1-4'	Total/NA	Solid	3050B	
720-53309-4	B1-16'	Total/NA	Solid	3050B	
720-53309-12	B2-4'	Total/NA	Solid	3050B	
720-53309-18	B3-4'	Total/NA	Solid	3050B	
720-53309-23	B4-4'	Total/NA	Solid	3050B	
720-53309-28	B5-4'	Total/NA	Solid	3050B	
720-53309-33	B6-4'	Total/NA	Solid	3050B	
LCS 720-147197/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-147197/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-147197/1-A	Method Blank	Total/NA	Solid	3050B	

#### Analysis Batch: 147271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147197/2-A	Lab Control Sample	Total/NA	Solid	6010B	147197
LCSD 720-147197/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	147197
MB 720-147197/1-A	Method Blank	Total/NA	Solid	6010B	147197

#### Analysis Batch: 147329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-1	B1-4'	Total/NA	Solid	6010B	147197
720-53309-4	B1-16'	Total/NA	Solid	6010B	147197

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TestAmerica Pleasanton

## QC Association Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Metals (Continued)

#### Analysis Batch: 147329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53309-12	B2-4'	Total/NA	Solid	6010B	147197
720-53309-18	B3-4'	Total/NA	Solid	6010B	147197
720-53309-23	B4-4'	Total/NA	Solid	6010B	147197
720-53309-28	B5-4'	Total/NA	Solid	6010B	147197
720-53309-33	B6-4'	Total/NA	Solid	6010B	147197

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## Lab Chronicle

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B1-4'**

Date Collected: 10/24/13 08:53  
Date Received: 10/24/13 15:53

**Lab Sample ID: 720-53309-1**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147425	10/30/13 22:04	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147393	10/30/13 23:03	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 15:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147341	10/31/13 02:30	DCH	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 20:33	SLK	TAL PLS

**Client Sample ID: B1-16'**

Date Collected: 10/24/13 09:12  
Date Received: 10/24/13 15:53

**Lab Sample ID: 720-53309-4**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147303	10/29/13 16:35	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147272	10/30/13 00:25	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 15:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147341	10/31/13 00:53	DCH	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 20:37	SLK	TAL PLS

**Client Sample ID: B2-4'**

Date Collected: 10/24/13 11:01  
Date Received: 10/24/13 15:53

**Lab Sample ID: 720-53309-12**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147425	10/30/13 22:04	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147393	10/30/13 23:30	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 15:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147341	10/31/13 01:17	DCH	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 20:42	SLK	TAL PLS

**Client Sample ID: B3-4'**

Date Collected: 10/24/13 11:42  
Date Received: 10/24/13 15:53

**Lab Sample ID: 720-53309-18**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147303	10/29/13 16:35	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147272	10/30/13 01:22	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 15:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147341	10/31/13 01:42	DCH	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 20:55	SLK	TAL PLS

TestAmerica Pleasanton

## Lab Chronicle

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

**Client Sample ID: B4-4'**

**Date Collected: 10/24/13 12:14**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-23**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147363	10/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147339	10/30/13 16:49	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 15:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147341	10/31/13 02:06	DCH	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 21:00	SLK	TAL PLS

**Client Sample ID: B5-4'**

**Date Collected: 10/24/13 13:03**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-28**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147363	10/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147339	10/30/13 17:18	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147566	11/02/13 14:22	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147628	11/04/13 13:51	DCH	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 21:04	SLK	TAL PLS

**Client Sample ID: B6-4'**

**Date Collected: 10/24/13 13:43**

**Date Received: 10/24/13 15:53**

**Lab Sample ID: 720-53309-33**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147363	10/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	147339	10/30/13 14:54	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147447	10/31/13 09:10	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147436	10/31/13 18:34	JL	TAL PLS
Total/NA	Prep	3050B			147197	10/28/13 17:52	JCR	TAL PLS
Total/NA	Analysis	6010B		4	147329	10/29/13 21:09	SLK	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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TestAmerica Pleasanton

## Certification Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

### Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

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## Method Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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## Sample Summary

Client: ACC Environmental Consultants  
Project/Site: Chestnut

TestAmerica Job ID: 720-53309-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53309-1	B1-4'	Solid	10/24/13 08:53	10/24/13 15:53
720-53309-4	B1-16'	Solid	10/24/13 09:12	10/24/13 15:53
720-53309-12	B2-4'	Solid	10/24/13 11:01	10/24/13 15:53
720-53309-18	B3-4'	Solid	10/24/13 11:42	10/24/13 15:53
720-53309-23	B4-4'	Solid	10/24/13 12:14	10/24/13 15:53
720-53309-28	B5-4'	Solid	10/24/13 13:03	10/24/13 15:53
720-53309-33	B6-4'	Solid	10/24/13 13:43	10/24/13 15:53

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### San Francisco

1220 Quarry Lane

phone 925.464.1919 fax 925.600.3802

149598  
TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

11/4/2013

# 720-53309 Chain of Custody Record

phone 925.464.1919 fax 925.600.3802

TestAmerica Laboratories, Inc.

Pleasanton, CA 94566

COC No.  
1 of 4 COCs

ACC Environmental Consultants

Job No. 6705-688-09

1297 Capwell Drive, Suite 100

SDG No.

Oakland, CA 94621

510-638-8400 x110

Phone

510-638-8404

FAX

Project Name:

Site:

PO #

**CHESNUT**  
**Livermore, CA**

**6988-0A3.00**

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### San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

Phone 925.434.1919 fax 925.600.3002

149598  
TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

COC No:

2 of 4 COCs

Job No. 6943-000009

Site Contact: Ian Sutherland Date: 10.24.13

Site Contact: Ian Sutherland

Date/Time:

Carrier: Ian Sutherland

Date/Time:

Project Manager: Ian Sutherland	Tel/Fax: 510.773.0752	Analysis Turnaround Time
		Calendar (C) or Work Days (W) <u>W</u>
	<input type="checkbox"/>	TAT if different from below
	<input checked="" type="checkbox"/>	2 weeks
	<input type="checkbox"/>	1 week
	<input type="checkbox"/>	2 days
	<input type="checkbox"/>	1 day

PO #	6943-003.00
Sample Identification	Sample Date
B2- 4 <sup>1</sup>	10/24/13
B2- 8 <sup>1</sup>	11:03
B2- 12 <sup>1</sup>	11:14
B2- 16 <sup>1</sup>	11:16
B2- 20 <sup>1</sup>	11:16
B2- 24 <sup>1</sup>	11:26
B3- 4 <sup>1</sup>	11:42
B3- 8 <sup>1</sup>	11:45
B3- 12 <sup>1</sup>	11:49
B3- 16 <sup>1</sup>	11:55
B3- 20 <sup>1</sup>	11:58

Filtered Sample

(Lea)  
TPH-D + mo w/S.G. cleanup  
VOGS + TPH-g

HOLD

Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
B2- 4 <sup>1</sup>	10/24/13	11:01A	Soln	1	X X X
B2- 8 <sup>1</sup>					
B2- 12 <sup>1</sup>					
B2- 16 <sup>1</sup>					
B2- 20 <sup>1</sup>					
B2- 24 <sup>1</sup>					
B3- 4 <sup>1</sup>					
B3- 8 <sup>1</sup>					
B3- 12 <sup>1</sup>					
B3- 16 <sup>1</sup>					
B3- 20 <sup>1</sup>					

Preservation Used: 1=Ice; 2=HCl; 3=H<sub>2</sub>SO<sub>4</sub>; 4=HNO<sub>3</sub>; 5=NaOH; 6=Other

Possible Hazard Identification  
 Non-Hazard  Flammable  Corrosive  Irritant  Poison A  Unknown  Poison B

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: D. M. Gandy Company: AC Date/Time: 10/24/13 3:53PM Received by: John Nester Company: AC Date/Time: 10/24/13 3:55PM

Relinquished by: Company: Date/Time: Received by: Company: Date/Time:

Relinquished by: Company: Date/Time: Received by: Company: Date/Time:

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**San Francisco**

1220 Quarry Lane

Pleasanton, CA 94566

Phone 925.484.1919 fax 925.600.3002

1445-88  
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

COC No.: 3 of 4 COCs

Job No. 6482-005-00

11/4/2013

# Chain of Custody Record

Client Contact	Project Manager: Ian Sutherland	Site Contact: Ian Sutherland	Date: <u>10-24-13</u>
ACC Environmental Consultants	Tel/Fax: 510.772.0752	Lab Contact: Dimple Sharma	
1977 Capwell Drive, Suite 100	Analysis Turnaround Time	Carrier: Ian Sutherland	
Oakland, CA 94621	Calendar (C) or Work Days (W)		
510-638-8400 x110	<input type="checkbox"/> TAT if different from Below		
Phone	<input checked="" type="checkbox"/> 2 weeks		
510-638-8404	<input type="checkbox"/> 1 week		
FAX	<input type="checkbox"/> 2 days		
Project Name: <u>Chestnut</u>			
Site: <u>Livermore, CA</u>			
PO# <u>G988-003.00</u>			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Sample Specific Notes:
B4-45	10/24/13	12:47	Soln	1	X	X	
B4- 8'		12:45					
B4- 12'		12:22					
B4- 16'		12:23					
B4- 20'		12:28					
B5- 4'		10/24					
B5- 8'		10/24					
B5- 12'		10/24					
B5- 16'		10/24					
B5- 20'		10/24					

Preservation Used: 1= Ice, 2= HCl, 3= H <sub>2</sub> SO <sub>4</sub> , 4=HNO <sub>3</sub> , 5=NaOH; 6= Other		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Possible Hazard Identification		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Corrosive	
<input type="checkbox"/> Irritant	<input type="checkbox"/> Poison A	<input type="checkbox"/> Unknown	<input type="checkbox"/>
Special Instructions/QC Requirements & Comments:			

Relinquished by: <u>D. Mironov</u>	Company: <u>ACC</u>	Date/Time: <u>10-24-13 23:31</u>	Received by: <u>John Neudecker</u>	Company: <u>ACC</u>	Date/Time: <u>10-24-13 15:53</u>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

S. 9<sup>o</sup>

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**San Francisco**  
1220 Quarry Lane  
Pleasanton, CA 94566  
phone 925.484.1919 fax 925.600.3902

720-53309  
**Chain of Custody Record**

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
/4958

Project Manager: Ian Sutherland										Site Contact: Ian Sutherland		Date: 10.24.13		COC No. 4 of 4 COCs	
Client Contact				Tel/Fax: 510.773.0752				Lab Contact: Dimple Sharma				Carrier: Ian Sutherland			
ACC Environmental Consultants		1977 Capwell Drive, Suite 100		Oakland, CA 94621		Analysis Turnaround Time		Calendar (C) or Work Days (W)		W		Job No. 6666-099-09			
510-638-8400 x110		Phone						<input type="checkbox"/> TAT if different from Below		2 weeks					
Project Name: Chestnut										1 week					
Site: Livermore, CA										2 days					
PO # G988-003:60										1 day					
Sample Identification												Filtered Sample			
Sample	Date	Sample	Time	Sample	Type	Matrix	# of Cont.					Sample Specific Notes:			
B6 - 4'	10/24/13	1:43		501	1	X	X								
B6 - 8'		1:45													
B6 - 12'		1:50													
B6 - 16'		1:52													
B6 - 20'		1:57		↓											
				↓											
Preservation Used: 1=Ice, 2=HCl, 3=H <sub>2</sub> SO <sub>4</sub> , 4=HNO <sub>3</sub> , 5=NaOH, 6= Other										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Possible Hazard Identification										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive/Irritant <input type="checkbox"/> Poison A <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Archive For _____ Months					
Special Instructions/QC Requirements & Comments:										5.9e					
Relinquished by: <i>J. Mirella</i>	Company: <i>ACI</i>	Date/Time: <i>10/24/13 3:53</i>	Received by: <i>James Muller</i>	Company: <i>ACI</i>	Date/Time: <i>10-24-13 1553</i>										
Relinquished by: _____	Company: _____	Date/Time: _____	Received by: _____	Company: _____	Date/Time: _____										
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## Login Sample Receipt Checklist

Client: ACC Environmental Consultants

Job Number: 720-53309-1

Login Number: 53309

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## **APPENDIX D**

Protocol for Determining Background Concentrations of Metals in Soil  
at Lawrence Berkeley National Laboratory (LBNL)

*A Joint Effort of*  
*Environment, Health and Safety Division and*  
*Earth Sciences Division*  
Lawrence Berkeley National Laboratory  
University of California  
Berkeley, CA 94720

August 1995

This work was done at the Lawrence Berkeley National Laboratory, which is operated by  
the University of California for the U. S. Department of Energy under  
contract DE-AC03-76SF00098.

Protocol for Determining Background Concentrations of Metals in Soil  
at Lawrence Berkeley National Laboratory (LBNL)

Background concentrations for metals in soil at LBNL were determined in accordance with procedures described in "Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities" Interim Final Guidance, United States Environmental Protection Agency (EPA), February 1989 (PB89-151047). The background concentration was defined as the 95% upper confidence limit (UCL). A tolerance coefficient of 95%, as recommended in the EPA guidance document, was used to determine the 95% UCL, which was used to define the background levels. This means that one has a confidence level of 95% that the 95% UCL will contain at least 95% of the distribution of observations from the background data.

The upper confidence limit for background data that follows a normal distribution can be calculated by the formula:

$$UCL = X_{av} + K\sigma$$

where:

UCL = the upper confidence (tolerance) limit

X<sub>av</sub> = the arithmetic mean

$\sigma$  = the standard deviation

K = the one sided normal tolerance factor

Background concentrations were determined from the 95% upper confidence limit for the following California Code of Regulations (CCR) Title 22, California Assessment Manual (CAM) 17 metals:

1. antimony (Sb)
2. arsenic (As)
3. barium (Ba)
4. beryllium (Be)
5. cadmium (Cd)
6. chromium (Cr)
7. cobalt (Co)
8. copper (Cu)
9. lead (Pb)
10. mercury (Hg)
11. molybdenum (Mo)
12. nickel (Ni)
13. selenium (Se)
14. silver (Ag)
15. thallium (Tl)
16. vanadium (Vn)
17. zinc (Zn)

Site background concentrations were determined from the data set of 498 soil samples from the borings for construction of 71 monitoring wells. Samples from two monitoring wells, MW7-94-3 and MW77-92-10, which were installed in areas of potential metals contamination were excluded from the data set. In addition, the data set was reviewed for extreme outliers and those values were also excluded from the data set. The data used for the calculation of background concentrations are included in Table 1. The arithmetic mean ( $X_{av}$ ) and standard deviation ( $\sigma$ ) were calculated by assigning a value of the detection limit for all analytes with non-detectable concentrations. The one-sided normal tolerance factor (K) for the 95% UCL was obtained from Table 5, Appendix B of the EPA guidance document. This tolerance factor (K) is dependent on the number of the samples in the data set. Values of  $X_{av}$ ,  $\sigma$ , and K used to calculate background concentrations are listed in Table 2.

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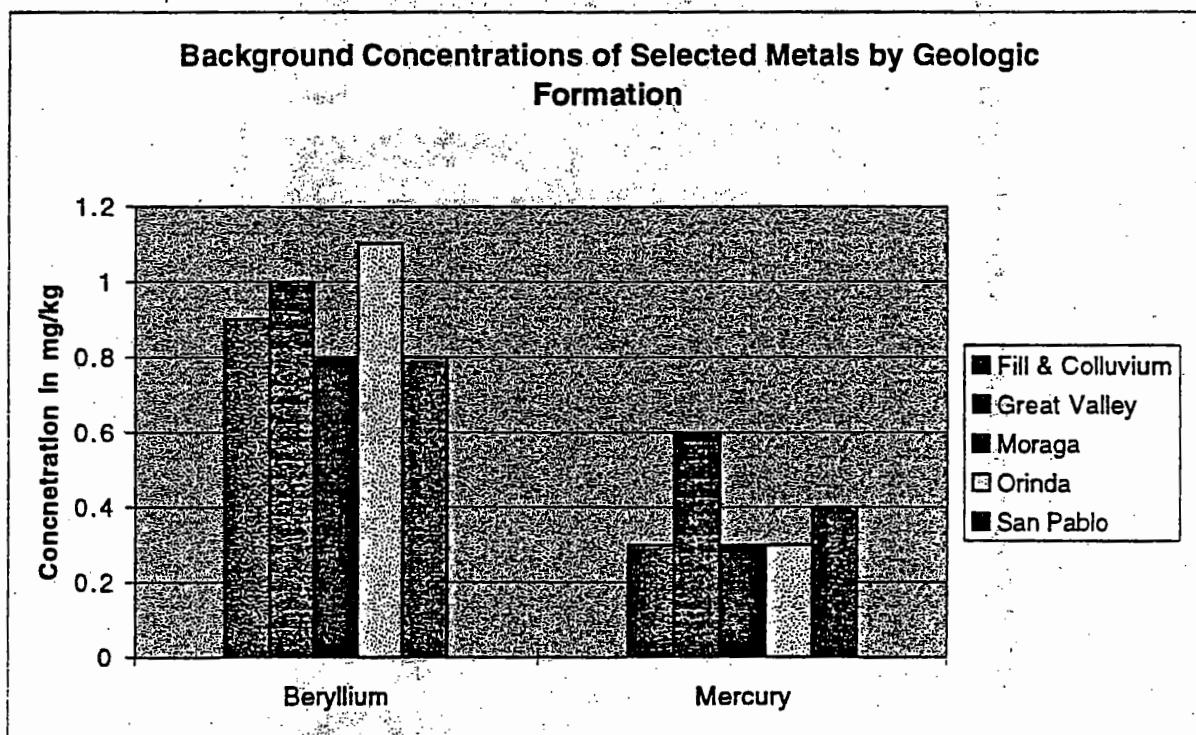
The same data set was also used to calculate background concentrations (95% UCL) of metals for individual geologic units at LBNL, in order to assess if there is a geological dependent variation in background metals concentrations. Background concentrations were determined for the following geologic units:

- Colluvium/Fill
- Moraga Formation
- Orinda Formation
- San Pablo Group
- Great Valley Group

The calculated site background metals concentrations and the background concentrations for individual geologic units are listed in Table 3. The background concentrations for the geologic units are also presented graphically on chart 1 (arsenic, cobalt, copper, lead, thallium, and vanadium), chart 2 (beryllium and mercury), chart 3 (cadmium, antimony, selenium, silver, and molybdenum), and chart 4 (nickel, chromium, zinc, and barium). Since the background concentrations are generally similar for the different geologic units and since the specific formation corresponding to the sample location is not always known, overall site background levels will generally be utilized for requesting No Further Investigation (NFI) status for LBNL's Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). Background metals concentrations for specific geologic units with background concentrations significantly greater than site background may also be used in some cases to request NFI status, including:

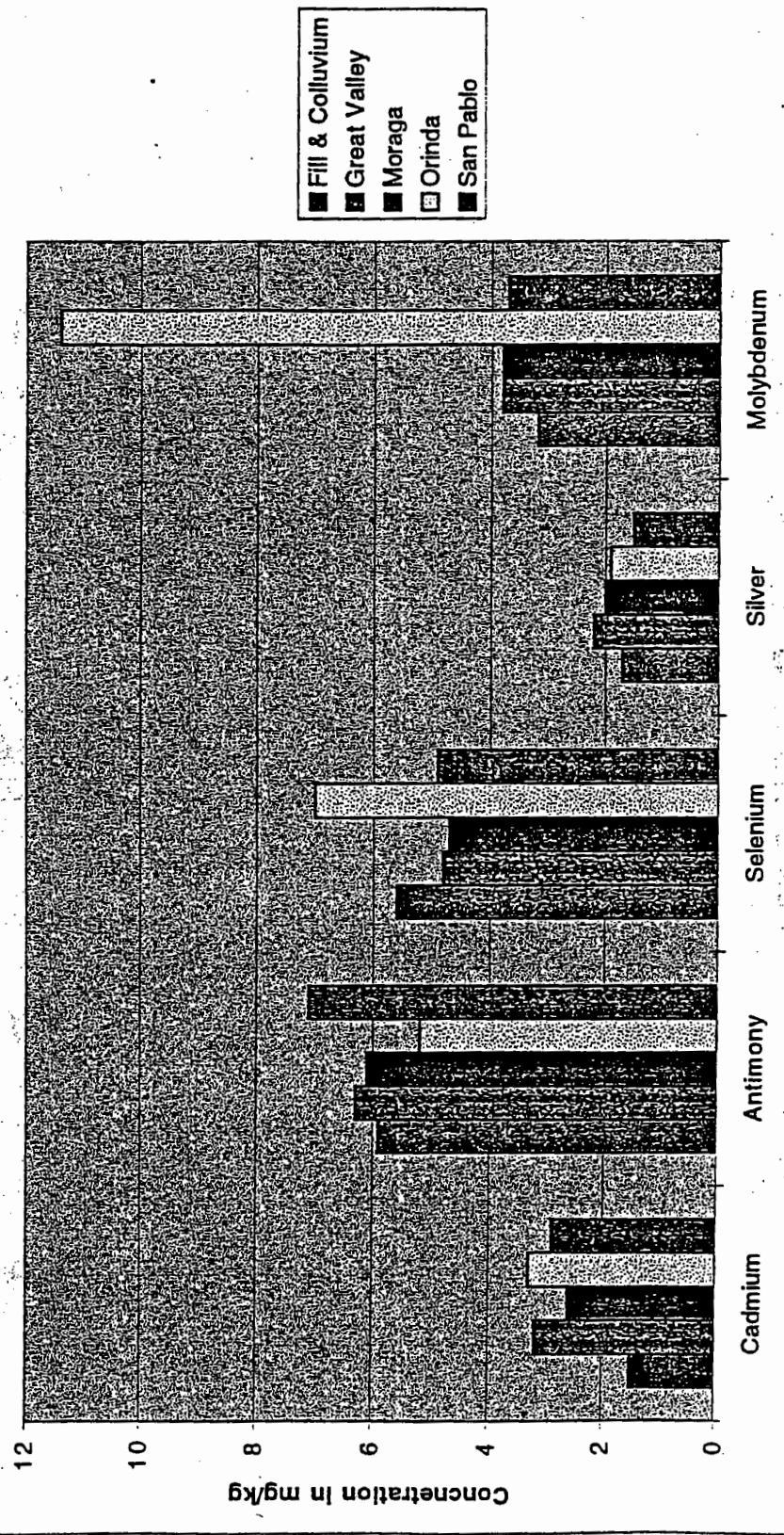
- Arsenic in Great Valley Group rocks
- Thallium in fill/colluvium and Moraga Formation rocks
- Molybdenum and selenium in Orinda Formation rocks
- Copper in Great Valley Group rocks

BG Met/geology Chart 2



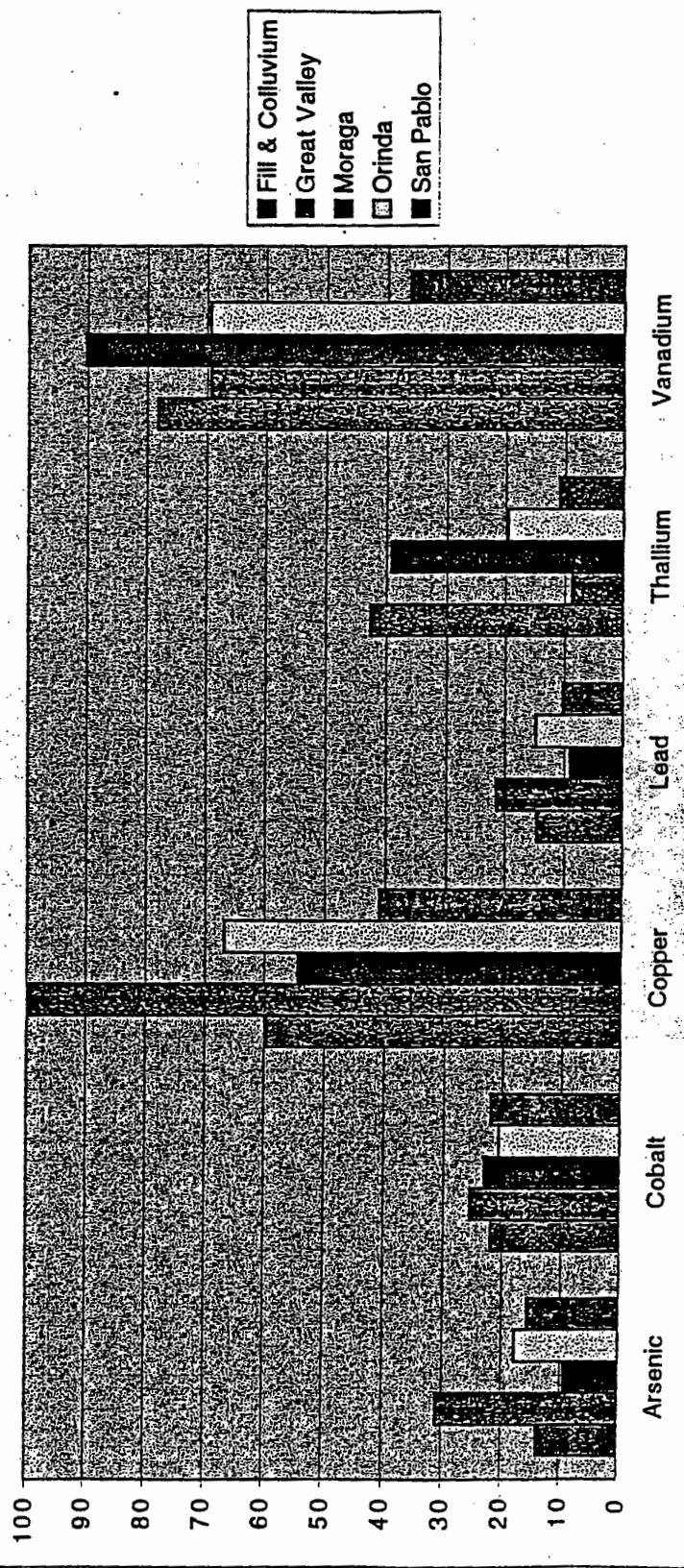
BG Met/geochemistry Chart 3

**Background Concentrations of Selected Metals by Geologic Formation**



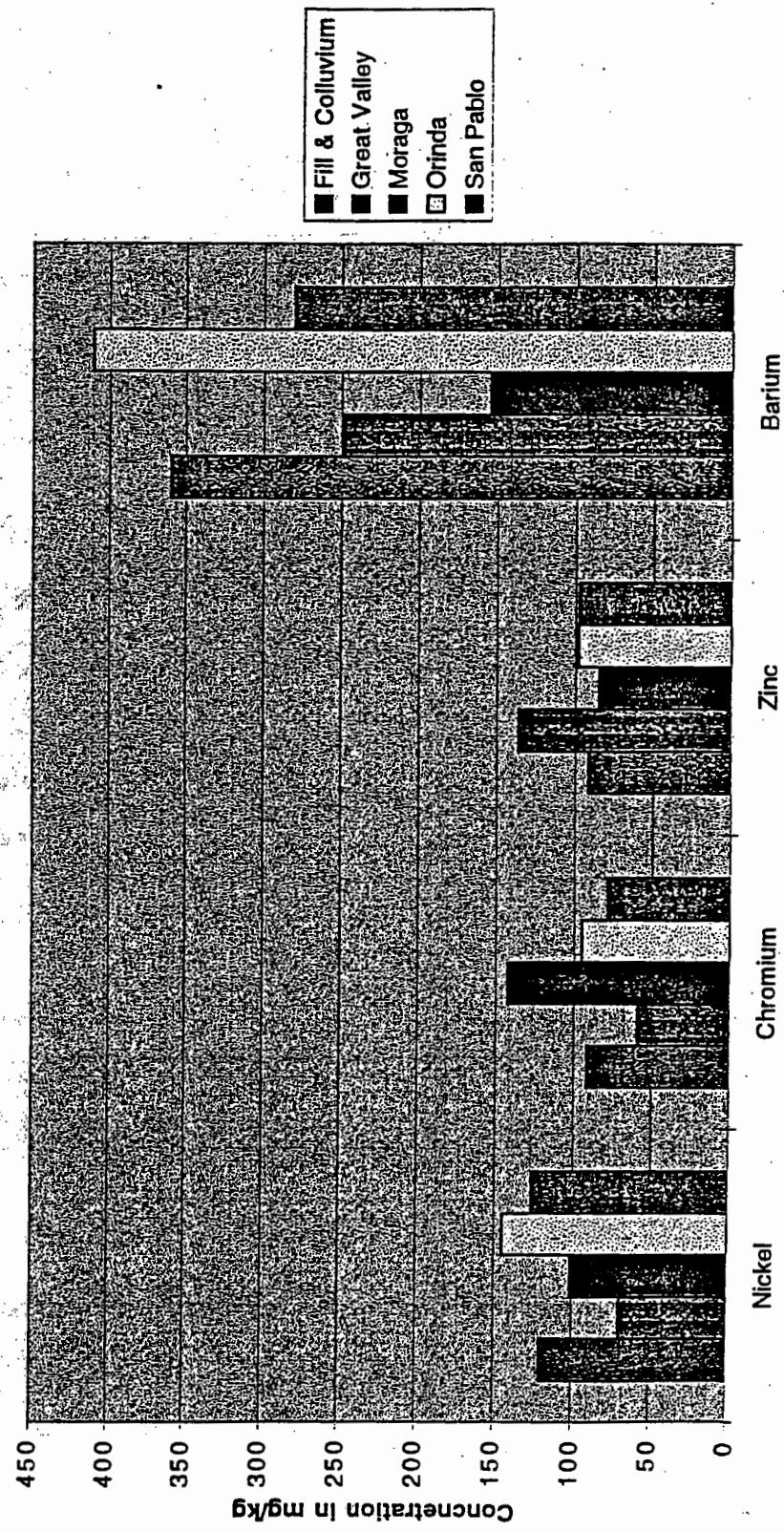
BG Met/Geology Chart 1

**Background Concentrations of Selected Metals by Geologic Formation**



BG Met/geochemistry Chart 4

**Background Concentrations of Selected Metals by Geologic Formation**



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**TABLE 2**  
**Parameters Used to Determine Upper 95% Confidence Limit for Background Soil Metals Data**  
**(Concentrations in mg/kg)**

	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	Vn	Zn
<b>Site Background</b>	5.5	19.1	323.6	1	2.7	99.6	22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	27.1	74.3	106.1
<b>Colluvium &amp; Fluv.</b>																	
Mean ( $\bar{X}_{av}$ )	2.77	5.39	126.33	0.50	0.46	51.34	13.67	29.05	6.86	0.17	1.26	59.23	1.60	0.55	7.72	44.49	57.37
Standard Deviation ( $\sigma$ )	1.62	4.47	120.84	0.21	0.55	20.81	4.33	15.90	4.05	0.09	0.99	31.67	2.09	0.57	18.07	17.50	17.74
Tolerance Factor ( $K$ )	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924
<b>Great Valley</b>																	
Mean ( $\bar{X}_{av}$ )	2.63	12.53	107.43	0.58	0.73	36.06	14.40	46.95	12.21	0.19	1.24	41.46	1.62	0.56	4.24	45.49	90.00
Standard Deviation ( $\sigma$ )	1.90	9.59	73.30	0.22	1.31	11.93	5.78	27.43	4.84	0.22	1.32	14.68	1.68	0.86	2.33	12.37	23.87
Tolerance Factor ( $K$ )	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924
<b>Moraga Formation</b>																	
Mean ( $\bar{X}_{av}$ )	2.74	2.82	71.80	0.36	0.71	52.80	15.76	24.26	2.84	0.13	1.61	36.50	1.35	0.68	7.41	45.68	52.44
Standard Deviation ( $\sigma$ )	1.77	3.35	42.78	0.22	0.98	46.38	3.82	15.52	3.13	0.08	1.14	33.22	1.76	0.68	16.38	23.08	16.76
Tolerance Factor ( $K$ )	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924	1.924
<b>Orinda Formation</b>																	
Mean ( $\bar{X}_{av}$ )	2.55	6.31	169.83	0.56	0.65	54.48	12.54	31.91	7.17	0.18	1.77	75.39	1.85	0.58	5.16	39.87	60.89
Standard Deviation ( $\sigma$ )	1.46	6.27	131.30	0.28	1.45	22.16	4.41	19.05	4.17	0.06	5.25	37.49	2.83	0.70	7.96	16.02	20.33
Tolerance Factor ( $K$ )	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838
<b>San Pablo Group</b>																	
Mean ( $\bar{X}_{av}$ )	2.69	4.14	102.28	0.36	0.73	25.55	7.44	16.35	5.42	0.22	1.16	46.25	1.59	0.48	4.62	12.68	43.54
Standard Deviation ( $\sigma$ )	1.65	4.34	66.55	0.17	0.83	19.88	5.44	9.20	1.81	0.09	0.96	29.83	1.23	0.37	2.36	8.80	20.28
Tolerance Factor ( $K$ )	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67

**TABLE 3**  
**BACKGROUND CONCENTRATIONS OF METALS**  
 (Concentrations in mg/kg)

Number of Samples	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	Vn	Zn
Site Background	498	5.5	19.1	323.6	1.0	2.7	99.6	22.2	69.4	16.1	0.4	7.4	119.8	5.6	1.8	27.1	74.3
Colluvium & Fill	97	5.9	14.0	358.8	0.9	1.5	91.4	22.0	59.6	14.7	0.3	3.2	120.2	5.6	1.7	42.5	78.2
Great Valley Group	97	6.3	31.0	248.5	1.0	3.2	59.0	25.5	99.7	21.5	0.6	3.8	69.7	4.8	2.2	8.7	135.9
Moraga Formation	101	6.1	9.3	154.1	0.8	2.6	142.2	23.1	54.1	8.9	0.3	3.8	100.4	4.7	2.0	38.9	90.1
Orinda Formation	184	5.2	17.8	411.2	1.1	3.3	95.2	20.6	66.9	14.8	0.3	11.4	144.3	7.0	1.9	19.8	69.3
San Pablo Group	13	7.1	15.7	280.0	0.8	2.9	78.6	22.0	40.9	10.3	0.4	3.7	125.9	4.9	1.5	10.9	36.2
																	97.7

Note: Background concentrations determined for Upper 95% Confidence Limit (UCL) from data from 71 monitoring well borings.

## **APPENDIX E**

