

The Goodyear Tire & Rubber Company
Akron, Ohio 44316 - 0001

January 28, 2013

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RECEIVED

By Alameda County Environmental Health at 3:12 pm, Feb 05, 2013

Reference:

Groundwater Investigation Report
Goodyear Tire Store
1485 1st Street, Livermore, CA
December 27, 2012

The Goodyear Tire & Rubber Company (Goodyear) retained AECOM Technical Services (AECOM) to complete the above referenced report dated December 27, 2012. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Dennis E. McGavis

Dennis E McGavis
The Goodyear Tire & Rubber Company
Director, Global EHS Sustainability



AECOM Technical Services
999 W. Town & Country Rd, Orange, CA 92868
T 714.567.2400 F 714.973.9750 www.aecom.com

December 27, 2012

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bat Parkway
Alameda, CA 94502

**Subject: Groundwater Investigation Report
Goodyear Tire and Rubber Company
Rynck Tire and Auto Center
DEX #5389
1485 First Street
Livermore, CA 94550**

Dear Mr. Wickham:

AECOM Technical Services, Inc. (AECOM) appreciates the opportunity to provide the Goodyear Tire and Rubber Company (Goodyear) and the Alameda County Environmental Health (ACEH) with this Groundwater Investigation Report. This report summarizes the groundwater investigation activities performed at the above referenced address (the Site) (Figure 1). The hydropunch sampling locations were installed by Cascade Drilling, LP under the oversight of AECOM on October 24, 2012. This investigation was performed in accordance with the Groundwater Investigation Work Plan dated June 24, 2012 and approved by the ACEH (with comments) on September 6, 2012. Minor deviations from the work plan are documented in this report.

BACKGROUND

In February 2010, URS performed a Phase I Environmental Site Assessment (ESA) and Phase II Limited Subsurface Investigation (LSI) at the Property. A total of seven soil borings were advanced adjacent to the current and former in-ground hydraulic lifts as well as the oil/water separator (OWS). Samples were analyzed for TPH and Volatile Organic Compounds (VOCs). Groundwater was not encountered during the investigation. Boring SB03, which was located at the adjacent in-ground lift in bay 5, had detections of TPH-diesel range (DRO) and -motor oil range (ORO) of 1,600 milligrams per kilogram (mg/kg) and 2,200 mg/kg at the terminal depth (11 to 12 feet), respectively. The DRO levels were above the California Regional Water Quality Control Board (RWQCB) commercial/industrial Environmental Screening Level (ESL) of 83 mg/kg for deep soils (greater than 3 meters below ground surface [bgs] where groundwater is a current or potential source of drinking water). One other boring had TPH levels reported at 2.1 mg/kg and the rest were all non-detect (ND). No VOC detections were reported.

In June 2010 URS performed a Further Site Investigation (FSI) at the Property. A total of five borings were advanced near the in-ground hydraulic lift in bay 5. Samples were analyzed for TPH and VOCs. Groundwater was not encountered during the FSI. TPH-DRO was detected at 1.2 mg/kg in one location. All other samples were reported as ND for VOCs and TPH. The report concluded that the contamination was limited to the area immediately adjacent to the in-ground lift.

In September 2011, AECOM removed the in-ground lift and any visibly impacted soil associated with the lift. Four sidewall confirmation samples and one bottom confirmation sample were collected and analyzed for VOCs and TPH. No TPH-GRO, ORO or VOCs detections were reported. All five samples had TPH-DRO

detections between 1 mg/kg and 4 mg/kg, which are below the RWQCB ESL of 83 mg/kg. A summary report was submitted to the ACEH on March 14, 2012.

On May 14, 2012, the ACEH issued a directive requiring a groundwater investigation be performed at the Site. AECOM submitted a groundwater investigation work plan to the ACEH on July 24, 2012.

Local Geology

The Site is located approximately 474 feet above mean sea level. The Site is underlain by Tertiary, Cretaceous and Jurassic-age rocks. The soil beneath the Site consists primarily of silt from ground surface to 5 feet (ft) bgs transitioning to silty gravel from 5 ft to 12 ft bgs.

Site Hydrogeology

According to nearby wells identified in the Phase I ESA, shallow groundwater reportedly flows towards the west-northwest direction following the surface topography. The regional aquifer is located approximately 45-50 ft bgs. Shallow groundwater has been detected at adjacent site at depths between 28 and 40 ft bgs. No groundwater was encountered at the Site during the Phase II SI, FSI or lift removal activities.

OBJECTIVES

The objectives of this groundwater well investigation were to assess the potential impact of TPH in the shallow water-bearing zone beneath the Site, determine the groundwater flow direction, and to assist in identifying any potential TPH sources and contaminant pathways. Though VOCs were not detected in samples previously collected at the site, the ACEH requested that groundwater samples also be analyzed for VOCs,

In order to better assess the groundwater beneath the site, the installation of three groundwater hydro-punch locations was proposed: one location adjacent to the former lift, one down gradient of the lift and one up gradient of the lift (to the southeast). Figure 2 shows the hydro-punch locations. The groundwater samples were to be used to assess possible impact to groundwater from lift operations. If TPH or VOCs are present in groundwater, the down-gradient location would assist in determining whether contaminants are migrating off Site.

FIELD INVESTIGATION

Field work activities were conducted under the direction of a California Professional Geologist (PG).

Permitting

A well permit was obtained from the Livermore-Amador Valley Zone 7 Water Agency. A copy of the permit is provided in Appendix A.

Site Clearance

Before conducting the drilling activities, the proposed groundwater monitoring well locations were identified with marking paint and cleared for potential underground utilities. Prior to marking, each potential location was surveyed for overhead power lines or other surface structure features that may present an obstruction to drilling. Underground Service Alert (Dig Alert) was notified 48 hours prior to the initiation of subsurface field work, per state law, to allow member companies to mark utilities that may conflict with the proposed boring locations.

A geophysical survey was conducted at the proposed well locations using a magnetometer, to help identify subsurface lines and other features or obstructions. Necessary precautions were taken during the well installation activities to ensure that active or potentially active lines identified during the geophysical survey were not damaged or impacted.

Hydropunch Boring Installation

Direct Push Drilling

A truck-mounted, direct-push sampling rig equipped with a hammer and vibrator was employed to drive the direct-push sampling core barrel into the subsurface to a maximum depth of 40 ft bgs. As the core barrel was advanced, soil was driven into an inner acetate sleeve. After the desired sampling depth was reached, the core barrel rods were removed from the borehole. Soil was used for lithologic description and head-space photo-ionization detector (PID) monitoring. After the decontamination of the sampling barrel, a new acetate sleeve was added, the core barrel, with added sections, was lowered back into the hole, and the process was repeated.

Soil Matrix Sampling

In accordance to the letter directive issued by the ACEH dated September 6, 2012, soil samples were collected for TPH, PCBs and VOCs.

Lithologic Logging

An on-site field geologist working under the supervision of a California PG recovered the soil samples for lithologic identification. Soils were described in accordance with the Unified Soil Classification System (USCS). In addition, the samples were observed for color, texture, moisture content, plasticity, evidence of soil contamination (e.g., odor, staining), and any other notable characteristics. Copies of the soil boring logs are presented in Appendix B.

Soil Description

The soil beneath the Site consists primarily of silty from ground surface to five feet below ground surface (bgs) transitioning to silty gravel-gravelly silt to 10 to 12 feet bgs. Gravelly silty sand was primarily encountered from 12 to 31 feet bgs. Sand was encountered from 31 to 44 feet bgs.

Groundwater Sampling

Groundwater was not encountered during this investigation. A zone of moist soil was observed at 24 to 33 feet bgs, but no groundwater entered the boreholes in any of the hydropunch locations. In lieu of a groundwater sample, a soil sample was collected from the moist interval at each location and submitted for analysis of VOCs and TPH.

Decontamination

All disposal equipment such as gloves, earplugs, and trash bags were disposed of in municipal waste bins. All reusable sampling equipment that came in contact with potentially contaminated soil or groundwater was decontaminated prior to and after each use to assure the quality of samples collected. Decontamination was performed using the following procedure:

- washing in non-phosphate detergent and tap water wash, using a brush as necessary
- rinsing in clean tap water
- final rinse in deionized/distilled water

All decontamination water and rinsate water was placed in Department of Transportation (DOT) approved 55 gallon drums for off-site disposal.

Investigation Derived Waste

All investigation derived waste (IDW) was stored in DOT-approved 55 gallon drums on-site. Each drum was labeled with the date, contents, and contact information. All waste was removed within 90 days of generation.

Investigation Results

All samples were non-detect for VOCs, TPH, and PCBs. Summary tables are attached and laboratory reports are provided in Appendix C.

Field Variances

In general, well installation and sampling was performed in accordance with the Work Plan and the comments in the directive letter. However, based on field conditions several variances from the Work Plan were made. These field variances are listed below:

- Groundwater was not encountered in any of the hydropunch locations so no groundwater samples were collected
- Soil samples were collected in the moist zone and analyzed for VOCs and TPH

Conclusions

A moist zone was encountered from 24 to 33 feet bgs but the zone did not produce enough water to sample. It is possible that the zone is dependent on the season and annual precipitation rates. Boreholes were terminated before reaching the regional aquifer (located approximately 45-50 feet bsg). Soil samples collected within the moist zone were analyzed for VOCs and TPH. All samples were non-detect for VOCs and TPH. Samples collected near the removed hydraulic lift were also analyzed for PCBs. Both samples were non-detect.

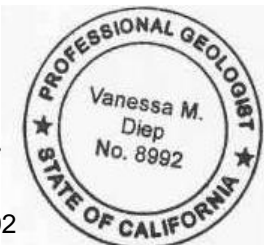
If you have any questions, please contact Steve Williams at (714) 689-7280 or Vanessa Diep at (714) 689-7192.

Sincerely,

AECOM Environment



Vanessa Diep, PG #8992
Project Geologist



Steve Williams, PG #7064
Senior Program Manager

Attachments:

- Figure 1 – Site Vicinity Map
- Figure 2 – Sample Locations
- Table 1 – VOCs
- Table 2 – TPH
- Table 3 – PCBs
- Appendix A – Monitoring Well Permit
- Appendix B – Boring Logs
- Appendix C – Laboratory Report

Figures



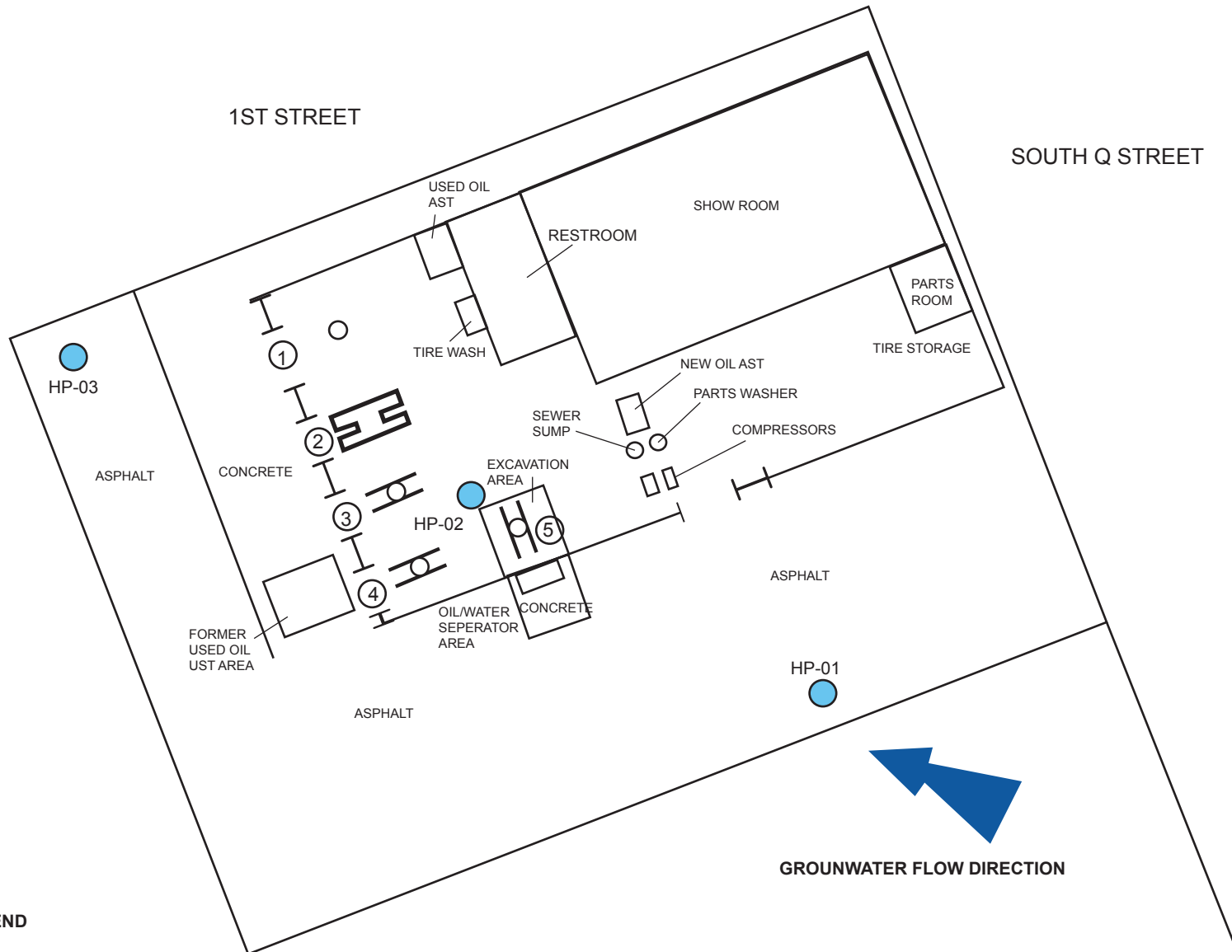
Site Location

Site Location

Rynck Tire and Auto Center # 5389

Date: 11/2012	1485 First Street, Livermore, CA 94550	Figure 1
Project No. 60188757	AECOM	





LEGEND



- INACTIVE INGROUND SINGLE POST HYDRAULIC LIFT
- WITH TIRE INACTIVE INGROUND SINGLE POST HYDRAULIC LIFT
- ▬ ACTIVE INGROUND ALIGNMENT RACK

- HYDRO-PUNCH LOCATION
- ① SERVICE BAY NUMBER
- AST ABOVE-GROUND STORAGE TANK
- UST UNDERGROUND STORAGE TANK

Hydro-punch Locations		
Rynck Tire and Auto Center #5389 1485 First Street, Livermore, CA		
Date: 11-2012	Goodyear Tire & Rubber Company	
Project No.	AECOM	Figure 2

Tables

Table 1 - Volatile Organic Compounds in Soil
The Goodyear Tire Rubber Company
Rynck Tire Center
Livermore, CA

Sample ID	HP-01-SS-28	HP-02-SS-12	HP-02-SS-33	HP-03-SS-24
Matrix	Solid	Solid	Solid	Solid
Collection Date	10/24/2012	10/24/2012	10/24/2012	10/24/2012
Unit	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Analyte				
1,1,1,2-Tetrachloroethane	<4.8	<5	<4.8	<4.9
1,1,1-Trichloroethane	<4.8	<5	<4.8	<4.9
1,1,2-Tetrachloroethane	<4.8	<5	<4.8	<4.9
1,1,2-Trichloro-1,2,2-trifluoroethane	<4.8	<5	<4.8	<4.9
1,1,2-Trichloroethane	<4.8	<5	<4.8	<4.9
1,1-Dichloroethane	<4.8	<5	<4.8	<4.9
1,1-Dichloroethene	<4.8	<5	<4.8	<4.9
1,1-Dichloropropene	<4.8	<5	<4.8	<4.9
1,2,3-Trichlorobenzene	<4.8	<5	<4.8	<4.9
1,2,3-Trichloropropane	<4.8	<5	<4.8	<4.9
1,2,4-Trichlorobenzene	<4.8	<5	<4.8	<4.9
1,2,4-Trimethylbenzene	<4.8	<5	<4.8	<4.9
1,2-Dibromo-3-Chloropropane	<4.8	<5	<4.8	<4.9
1,2-Dichlorobenzene	<4.8	<5	<4.8	<4.9
1,2-Dichloroethane	<4.8	<5	<4.8	<4.9
1,2-Dichloropropane	<4.8	<5	<4.8	<4.9
1,3,5-Trimethylbenzene	<4.8	<5	<4.8	<4.9
1,3-Dichlorobenzene	<4.8	<5	<4.8	<4.9
1,3-Dichloropropane	<4.8	<5	<4.8	<4.9
1,4-Dichlorobenzene	<4.8	<5	<4.8	<4.9
2,2-Dichloropropane	<4.8	<5	<4.8	<4.9
2-Chlorotoluene	<4.8	<5	<4.8	<4.9
2-Hexanone	<48	<50	<48	<49
4-Chlorotoluene	<4.8	<5	<4.8	<4.9
4-Isopropyltoluene	<4.8	<5	<4.8	<4.9
Acetone	<48	<50	<48	<49
Benzene	<4.8	<5	<4.8	<4.9
Bromobenzene	<4.8	<5	<4.8	<4.9
Bromoform	<4.8	<5	<4.8	<4.9
Bromomethane	<9.6	<10	<9.7	<9.7
Carbon disulfide	<4.8	<5	<4.8	<4.9
Carbon tetrachloride	<4.8	<5	<4.8	<4.9
Chlorobenzene	<4.8	<5	<4.8	<4.9
Chlorobromomethane	<19	<20	<19	<19
Chlorodibromomethane	<4.8	<5	<4.8	<4.9
Chloroethane	<9.6	<10	<9.7	<9.7
Chloroform	<4.8	<5	<4.8	<4.9
Chloromethane	<9.6	<10	<9.7	<9.7
cis-1,2-Dichloroethene	<4.8	<5	<4.8	<4.9

Table 1 - Volatile Organic Compounds in Soil
The Goodyear Tire Rubber Company
Rynck Tire Center
Livermore, CA

Sample ID	HP-01-SS-28	HP-02-SS-12	HP-02-SS-33	HP-03-SS-24
Matrix	Solid	Solid	Solid	Solid
Collection Date	10/24/2012	10/24/2012	10/24/2012	10/24/2012
Unit	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Analyte				
cis-1,3-Dichloropropene	<4.8	<5	<4.8	<4.9
Dibromomethane	<9.6	<10	<9.7	<9.7
Dichlorobromomethane	<4.8	<5	<4.8	<4.9
Dichlorodifluoromethane	<9.6	<10	<9.7	<9.7
DIPE	<4.8	<5	<4.8	<4.9
Ethanol	<480	<500	<480	<490
Ethyl t-butyl ether	<4.8	<5	<4.8	<4.9
Ethylbenzene	<4.8	<5	<4.8	<4.9
Ethylene Dibromide	<4.8	<5	<4.8	<4.9
Gasoline Range Organics (GRO)-C5-C12	<240	<250	<240	<240
Hexachlorobutadiene	<4.8	<5	<4.8	<4.9
Isopropylbenzene	<4.8	<5	<4.8	<4.9
Methyl tert-butyl ether	<4.8	<5	<4.8	<4.9
Methylene Chloride	<9.6	<10	<9.7	<9.7
Naphthalene	<9.6	<10	<9.7	<9.7
n-Butylbenzene	<4.8	<5	<4.8	<4.9
N-Propylbenzene	<4.8	<5	<4.8	<4.9
sec-Butylbenzene	<4.8	<5	<4.8	<4.9
Styrene	<4.8	<5	<4.8	<4.9
TAME	<4.8	<5	<4.8	<4.9
TBA	<9.6	<10	<9.7	<9.7
tert-Butylbenzene	<4.8	<5	<4.8	<4.9
Tetrachloroethene	<4.8	<5	<4.8	<4.9
Toluene	<4.8	<5	<4.8	<4.9
trans-1,2-Dichloroethene	<4.8	<5	<4.8	<4.9
trans-1,3-Dichloropropene	<4.8	<5	<4.8	<4.9
Trichloroethene	<4.8	<5	<4.8	<4.9
Trichlorofluoromethane	<4.8	<5	<4.8	<4.9
Vinyl acetate	<48	<50	<48	<49
Vinyl chloride	<4.8	<5	<4.8	<4.9
Xylenes, Total	<9.6	<10	<9.7	<9.7

Notes:

ug/Kg - micrograms per kilogram

Table 2 - Total Petroleum Hydrocarbons in Soil
The Goodyear Tire Rubber Company
Rynck Tire Center
Livemore, CA

Sample ID	Matrix	Collection Date	Unit	Analysis Method	TPH-Hydraulic Oil Range (C19-C36)
HP-01-SS-28	Solid	10/24/2012	mg/Kg	8015B	<49
HP-02-SS-12	Solid	10/24/2012	mg/Kg	8015B	<50
HP-02-SS-33	Solid	10/24/2012	mg/Kg	8015B	<50
HP-03-SS-24	Solid	10/24/2012	mg/Kg	8015B	<50

Notes:

mg/Kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

Table 3 - Polychlorinated Biphenyls in Soil
The Goodyear Tire Rubber Company
Rynck Tire Center
Livermore, CA

Sample ID	HP-02-SS-12	HP-02-SS-33
Matrix	Soil	Soil
Collection Date	10/24/2012	10/24/2012
Unit	ug/Kg	ug/Kg
Analyte		
PCB-1016	<49	<49
PCB-1221	<49	<49
PCB-1232	<49	<49
PCB-1242	<49	<49
PCB-1248	<49	<49
PCB-1254	<49	<49
PCB-1260	<49	<49

Notes:

PCB - polychlorinated biphenyls

ug/Kg - micrograms per kilogram

Appendix A
Monitoring Well Permit



ZONE 7 WATER AGENCY

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

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Just Tires
1485 North 1st Street
Livermore, CA

PERMIT NUMBER 2012094
WELL NUMBER _____
APN 97-0082-001-01

Coordinates Source _____ ft. Accuracy V _____ ft.
LAT _____ ft. LONG _____ ft.
APN _____

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

CLIENT
Name Just Tires Rubber Co
Address 144 Market St Phone 330-668-4600
City Albion Zip 44314

- 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.**

APPLICANT
Name Vanessa Diep
Email Vanessa.Diep@acorn.com Fax 714-567-2469
Address 499 La Targa Country Rd Phone 714-695-7192
City Orange Zip 92868

- 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.

TYPE OF PROJECT:
Well Construction _____ Geotechnical Investigation _____
Well Destruction _____ Contamination Investigation
Cathodic Protection _____ Other _____

- 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.

PROPOSED WELL USE:
Domestic _____ Irrigation _____
Municipal _____ Remediation _____
Industrial _____ Groundwater Monitoring _____
Dewatering _____ Other Screening

- 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, tremie cement grout shall be used in place of compacted cuttings.

DRILLING METHOD
Mud Rotary _____ Air Rotary _____ Hollow Stem Auger _____
Cable Tool _____ Direct Push Other _____

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

DRILLING COMPANY Cascade Drilling
DRILLER'S LICENSE NO. 938110

- F. WELL DESTRUCTION.** See attached.

WELL SPECIFICATIONS:
Drill Hole Diameter 3 in. Maximum 40 ft.
Casing Diameter 2 1/2 in. Depth _____ ft.
Surface Seal Depth 40 ft. Number 4

- 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.

SOIL BORINGS:
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

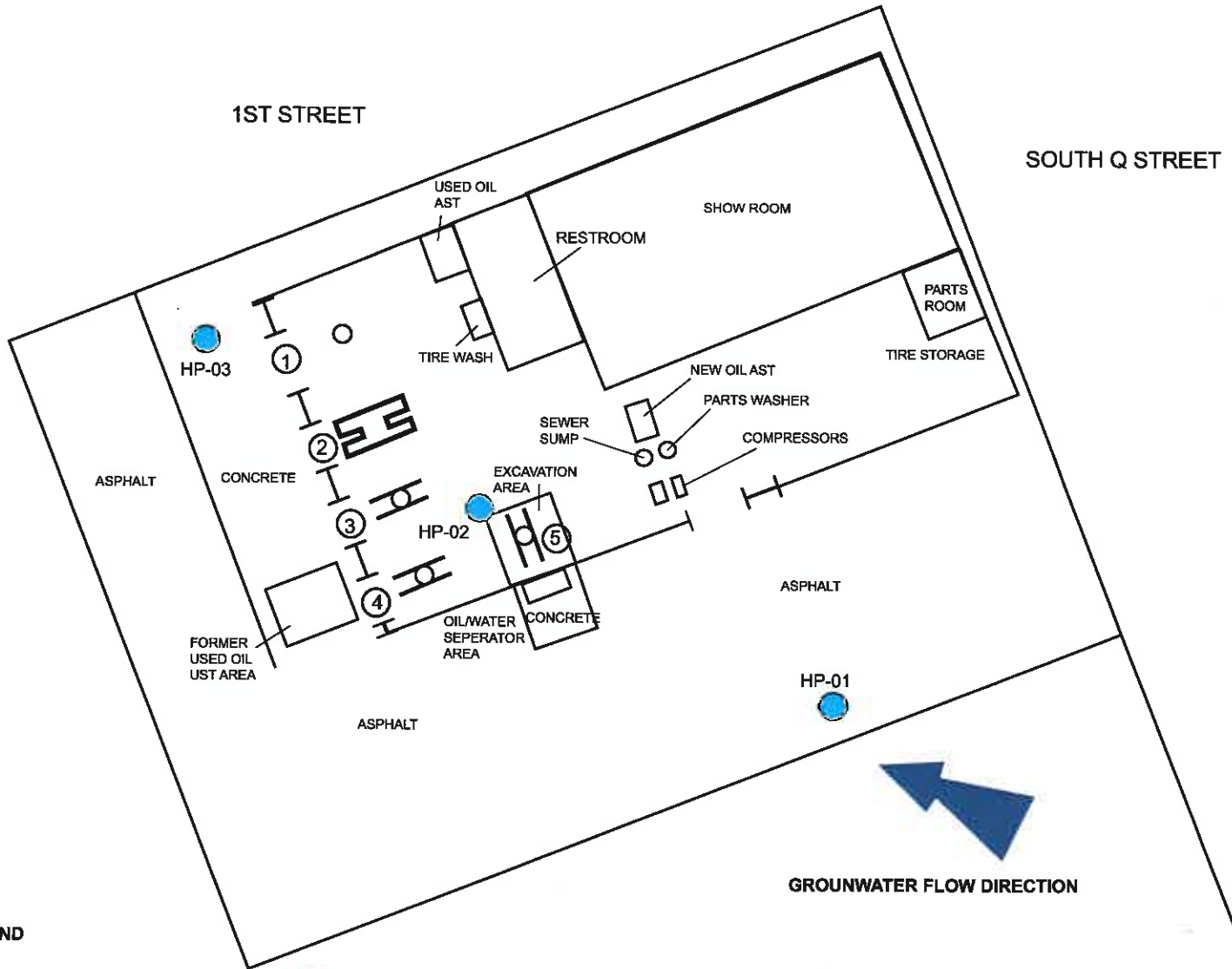
ESTIMATED STARTING DATE Oct 4th
ESTIMATED COMPLETION DATE Oct 4th

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

APPLICANT'S SIGNATURE [Signature] Date _____

Approved [Signature] Date 9/13/12
Wyman Hong

ATTACH SITE PLAN OR SKETCH



LEGEND



- INACTIVE INGROUND SINGLE POST HYDRAULIC LIFT
- ACTIVE INGROUND SINGLE POST HYDRAULIC LIFT
- ACTIVE INGROUND ALIGNMENT RACK



- PROPOSED GROUNDWATER HYDRO-PUNCH LOCATION
- SERVICE BAY NUMBER
- AST ABOVE-GROUND STORAGE TANK
- UST UNDERGROUND STORAGE TANK

<p>Proposed Groundwater Hydro-punch Locations Rynck Tire and Auto Center #5389 1485 First Street, Livermore, CA</p>		
Date:	Goodyear Tire & Rubber Company	<p>Figure 2</p>
Project No.		

ASSESSOR'S MAP 97

Code Area Nos. 16-023

(A) TR. 849 25/89

82

SCALE: 1" = 80'



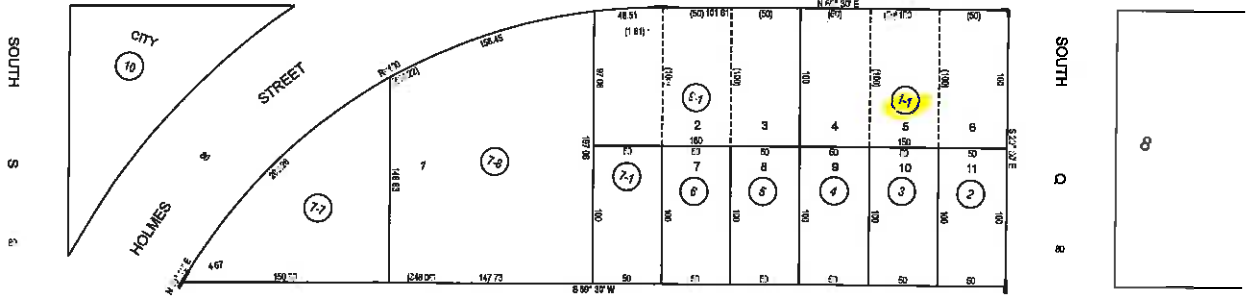
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Appendix B
Boring Logs

Borehole Log

(Continuation Sheet)

Project Name: <i>Goodyear Livermore</i>				Project Number: <i>60188757</i>				Sheet <i>2</i> of <i>2</i>	
Borehole Location: <i>upgradient in parking lot (see map)</i>				Borehole Number: <i>HP-01</i>				Logged by: <i>Ben Loebner</i>	
								Date: <i>10/24/2012</i>	
Depth (feet)	Sample		Field Analysis		LOG		Lithologic Description	Remarks	
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*			PID (ppm) S/B*
30	P		<i>4/4</i> <i>(correct)</i>	<i>1338</i>					
35							<i>TOTAL DEPTH 32 FEET</i>		
0									
5									
0									
5									
0									
5									
0									
5									
0									

* S/B = Sample reading / background reading; NA = not analyzed

Borehole Log

Project Name: <i>Goodyear Livermore</i>						Project Number: <i>60188757</i>					
Borehole Location: <i>near new hoist inside building</i>						Borehole No. <i>HP-02</i>			Sheet <i>1</i> of <i>2</i>		
Drilling Agency: <i>Cascade Drilling</i>						Driller: <i>Artemio Villegas</i>					
Drilling Equipment: <i>Geoprobe 6620DT</i>						Date Started: <i>10/24/2012</i>			Total Depth (feet): <i>44</i>		
Drilling Method: <i>Direct Push</i>						Date Finished: <i>10/24/2012</i>			Depth to Bedrock (feet): <i>not encountered</i>		
Drilling Fluid: <i>None</i>						Number of Samples: <i>2 soil</i>			Depth to Water (feet):		
Completion Information: <i>Grouted borehole to ground surface</i>						Borehole Diameter (in): <i>2.5</i>			Elevation and Datum:		
						Logged by: <i>Ben Loebner</i>					
						Checked by:			Date:		
Depth (feet)	Sample					Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*	Graphic	USCS or Rock Type		
5	P		2/4		1035	0/0			0-0.5 Concrete	Core through concrete floor. Advance borehole with dual-tube sampling system.	
	P		3/4		1037	0/0					
10	P		3/4		1039	0/0					
	P	SS-12	3/4		1041	0/0			8" GRAVELLY SILTY SAND; yellowish brown (10YR 5/4); fine sand; fine gravel; damp.		
15	P		3.5/4		1044	0/0					
	P		4/4		1048	0/0					
20	P		2.7/2		1051	0/0					
	P		2/2		1055	0/0			very moist at 28'		
25	P		2/2		1059	0/0					
30											

Key

* S/B = Sample reading / background reading; NA = not analyzed

Borehole Log

(Continuation Sheet)

Project Name: <i>Goodyear Livermore</i>					Project Number: <i>60188757</i>			Sheet <i>2</i> of <i>2</i>	
Borehole Location: <i>near hoist inside building</i>					Borehole Number: <i>HP-02</i>			Logged by: <i>Ben Loebner</i>	
								Date: <i>10/24/2012</i>	
Depth (feet)	Sample			Field Analysis		LOG		Lithologic Description	Remarks
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*		
30	P		$\frac{2.3}{2}$	1103					
33	P		$\frac{1.7}{2}$	1106					
35	P		$\frac{3}{2}$	1114		0/0			
	P		$\frac{2}{2}$	1225					
	P		$\frac{1.2}{2}$	1229					
40	P		$\frac{3}{4}$	1236		0/0			
45									
0									
5									
0									
5									
0									

* S/B = Sample reading / background reading; NA = not analyzed

Borehole Log

Project Name: <i>Goodyear Livermore</i>						Project Number: <i>WD188757</i>						
Borehole Location: <i>downgradient in parking lot near N. 1st St (See map)</i>						Borehole No. <i>HP-03</i>		Sheet <i>1</i> of <i>1</i>				
Drilling Agency: <i>Cascade Drilling</i>						Driller: <i>Artemio Villegas</i>						
Drilling Equipment: <i>Geoprobe 6620DT</i>						Date Started: <i>10/24/2012</i>	Total Depth (feet): <i>28</i>					
Drilling Method: <i>Direct Push</i>						Date Finished: <i>10/24/2012</i>	Depth to Bedrock (feet): <i>not encountered</i>					
Drilling Fluid: <i>none</i>						Number of Samples: <i>1 soil</i>	Depth to Water (feet):					
Completion Information:						Borehole Diameter (in): <i>2.5</i>	Elevation and Datum:					
						Logged by: <i>Ben Loebner</i>						
Depth (feet)	Sample				Field Analysis		LOG		Checked by:	Date:		
	Number	Interval	Blow Count	Recovery	Time	FID (ppm) S/B*	PID (ppm) S/B*	Graphic			USCS or Rock Type	Lithologic Description
5		P	$\frac{3}{4}$	$\frac{3}{4}$	1355		0/0			<i>0-0.2' ASPHALT</i>	<i>Advance bore hole with dual-tube sampling system</i>	
10		P	$\frac{3}{4}$	$\frac{3}{4}$	1352		0/0					<i>rocks jammed in casing Pull casing and clear the obstruction. continue drilling from 12'.</i>
15		P	$\frac{0}{4}$	$\frac{0}{4}$	1400		0/0					
20		P	$\frac{3.5}{4}$	$\frac{3.5}{4}$	1417		0/0					
25		P	$\frac{2.8}{4}$	$\frac{2.8}{4}$	1420		0/0					
25	<i>55-24</i>	P	$\frac{3}{4}$	$\frac{3}{4}$	1423		0/0					
25		P	$\frac{4}{4}$	$\frac{4}{4}$	1426							

30 Key

* S/B = Sample reading / background reading; NA = not analyzed



Appendix C
Laboratory Report

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: 720-45556-1
Client Project/Site: Goodyear Livermore

For:
AECOM, Inc.
999 Town & Country Road
4th Floor
Orange, California 92868

Attn: Vanessa Diep



Authorized for release by:
11/7/2012 3:52:54 PM

Onieka Howard
Project Manager I
onieka.howard@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
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.

1
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14



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Definitions/Glossary

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

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.
☼	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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Case Narrative

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Job ID: 720-45556-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-45556-1

Comments

No additional comments.

Receipt

The samples were received on 10/24/2012 3:45 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.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Labeled according to sample time.

(#1) The container labels list 1008SS113(0.5) time:12:30. The COC lists 1008SS112(0.5) time:12:30.

(#2) The container labels list 1008SS114(0.5) time:12:35. The COC lists 1008SS113(0.5) time:12:35.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch #124475 recovered above the upper control limit for VA, MIBK, and DIPE. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 720-124475/2).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch #124475 exceeded control limits for the following analytes: MEK and 2-Hexanone. These analytes were biased high in the LCS 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 other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-02-SS-12

Lab Sample ID: 720-45556-1

No Detections

Client Sample ID: HP-02-SS-33

Lab Sample ID: 720-45556-2

No Detections

Client Sample ID: HP-01-SS-28

Lab Sample ID: 720-45556-3

No Detections

Client Sample ID: HP-03-SS-24

Lab Sample ID: 720-45556-4

No Detections

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-45556-5

No Detections

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-02-SS-12

Lab Sample ID: 720-45556-1

Date Collected: 10/24/12 10:39

Matrix: Solid

Date Received: 10/24/12 15:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Acetone	ND		50		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Benzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Bromobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Chlorobromomethane	ND		20		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Bromoform	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Bromomethane	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
n-Butylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
sec-Butylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Carbon disulfide	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Chlorobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Chloroethane	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Chloroform	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Chloromethane	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1-Dichloropropene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Dibromomethane	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Dichlorodifluoromethane	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Ethylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
2-Hexanone	ND *		50		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Isopropylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Methylene Chloride	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Naphthalene	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
N-Propylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Styrene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Tetrachloroethene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Toluene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-02-SS-12

Lab Sample ID: 720-45556-1

Date Collected: 10/24/12 10:39

Matrix: Solid

Date Received: 10/24/12 15:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Trichloroethene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Vinyl acetate	ND		50		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Vinyl chloride	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Xylenes, Total	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
-C5-C12									
TBA	ND		10		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
DIPE	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
TAME	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Ethyl t-butyl ether	ND		5.0		ug/Kg		11/01/12 20:00	11/01/12 23:14	1
Ethanol	ND		500		ug/Kg		11/01/12 20:00	11/01/12 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		45 - 131	11/01/12 20:00	11/01/12 23:14	1
1,2-Dichloroethane-d4 (Surr)	108		60 - 140	11/01/12 20:00	11/01/12 23:14	1
Toluene-d8 (Surr)	95		58 - 140	11/01/12 20:00	11/01/12 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH-Hydraulic Oil Range (C19-C36)	ND		50		mg/Kg		10/25/12 18:03	10/26/12 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	97		40 - 130	10/25/12 18:03	10/26/12 14:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1
PCB-1221	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1
PCB-1232	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1
PCB-1242	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1
PCB-1248	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1
PCB-1254	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1
PCB-1260	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		32 - 112	10/25/12 18:01	10/27/12 08:10	1
DCB Decachlorobiphenyl	98		2 - 122	10/25/12 18:01	10/27/12 08:10	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-02-SS-33

Lab Sample ID: 720-45556-2

Date Collected: 10/24/12 11:06

Matrix: Solid

Date Received: 10/24/12 15:45

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		10/29/12 07:00	10/29/12 19:13	1
Acetone	ND		48		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Benzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Dichlorobromomethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Bromobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Chlorobromomethane	ND		19		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Bromoform	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Bromomethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
n-Butylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
sec-Butylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
tert-Butylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Carbon disulfide	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Carbon tetrachloride	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Chlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Chloroethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Chloroform	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Chloromethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
2-Chlorotoluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
4-Chlorotoluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Chlorodibromomethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,3-Dichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1-Dichloropropene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Ethylene Dibromide	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Dibromomethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1-Dichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2-Dichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1-Dichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2-Dichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Ethylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Hexachlorobutadiene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
2-Hexanone	ND		48		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Isopropylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
4-Isopropyltoluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Methylene Chloride	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Naphthalene	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
N-Propylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Styrene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Tetrachloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Toluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-02-SS-33

Lab Sample ID: 720-45556-2

Date Collected: 10/24/12 11:06

Matrix: Solid

Date Received: 10/24/12 15:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Trichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Vinyl acetate	ND		48		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Vinyl chloride	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Xylenes, Total	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Gasoline Range Organics (GRO)	ND		240		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
-C5-C12									
TBA	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
DIPE	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
TAME	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Ethyl t-butyl ether	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:13	1
Ethanol	ND		480		ug/Kg		10/29/12 07:00	10/29/12 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		45 - 131	10/29/12 07:00	10/29/12 19:13	1
1,2-Dichloroethane-d4 (Surr)	120		60 - 140	10/29/12 07:00	10/29/12 19:13	1
Toluene-d8 (Surr)	99		58 - 140	10/29/12 07:00	10/29/12 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH-Hydraulic Oil Range (C19-C36)	ND		50		mg/Kg		10/25/12 18:03	10/26/12 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	95		40 - 130	10/25/12 18:03	10/26/12 15:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1
PCB-1221	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1
PCB-1232	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1
PCB-1242	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1
PCB-1248	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1
PCB-1254	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1
PCB-1260	ND		49		ug/Kg		10/25/12 18:01	10/27/12 08:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		32 - 112	10/25/12 18:01	10/27/12 08:27	1
DCB Decachlorobiphenyl	94		2 - 122	10/25/12 18:01	10/27/12 08:27	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-01-SS-28

Lab Sample ID: 720-45556-3

Date Collected: 10/24/12 13:35

Matrix: Solid

Date Received: 10/24/12 15:45

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		10/29/12 07:00	10/29/12 19:44	1
Acetone	ND		48		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Benzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Dichlorobromomethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Bromobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Chlorobromomethane	ND		19		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Bromoform	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Bromomethane	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
n-Butylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
sec-Butylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
tert-Butylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Carbon disulfide	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Carbon tetrachloride	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Chlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Chloroethane	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Chloroform	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Chloromethane	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
2-Chlorotoluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
4-Chlorotoluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Chlorodibromomethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,3-Dichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1-Dichloropropene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Ethylene Dibromide	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Dibromomethane	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1-Dichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2-Dichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1-Dichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2-Dichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Ethylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Hexachlorobutadiene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
2-Hexanone	ND		48		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Isopropylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
4-Isopropyltoluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Methylene Chloride	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Naphthalene	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
N-Propylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Styrene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Tetrachloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Toluene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-01-SS-28

Lab Sample ID: 720-45556-3

Date Collected: 10/24/12 13:35

Matrix: Solid

Date Received: 10/24/12 15:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Trichloroethene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Vinyl acetate	ND		48		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Vinyl chloride	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Xylenes, Total	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Gasoline Range Organics (GRO)	ND		240		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
-C5-C12									
TBA	ND		9.6		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
DIPE	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
TAME	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Ethyl t-butyl ether	ND		4.8		ug/Kg		10/29/12 07:00	10/29/12 19:44	1
Ethanol	ND		480		ug/Kg		10/29/12 07:00	10/29/12 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		45 - 131	10/29/12 07:00	10/29/12 19:44	1
1,2-Dichloroethane-d4 (Surr)	117		60 - 140	10/29/12 07:00	10/29/12 19:44	1
Toluene-d8 (Surr)	100		58 - 140	10/29/12 07:00	10/29/12 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH-Hydraulic Oil Range (C19-C36)	ND		49		mg/Kg		10/25/12 18:03	10/26/12 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	97		40 - 130	10/25/12 18:03	10/26/12 16:01	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-03-SS-24

Lab Sample ID: 720-45556-4

Date Collected: 10/24/12 14:23

Matrix: Solid

Date Received: 10/24/12 15:45

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		10/29/12 07:00	10/29/12 20:14	1
Acetone	ND		49		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Benzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Bromobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Chlorobromomethane	ND		19		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Bromoform	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Bromomethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
n-Butylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
sec-Butylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
tert-Butylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Carbon disulfide	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Chlorobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Chloroethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Chloroform	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Chloromethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
2-Chlorotoluene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
4-Chlorotoluene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Dibromomethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Ethylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Hexachlorobutadiene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
2-Hexanone	ND		49		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Isopropylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
4-Isopropyltoluene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Methylene Chloride	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Naphthalene	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
N-Propylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Styrene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Tetrachloroethene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Toluene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-03-SS-24

Lab Sample ID: 720-45556-4

Date Collected: 10/24/12 14:23

Matrix: Solid

Date Received: 10/24/12 15:45

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Trichloroethene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Vinyl acetate	ND		49		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Vinyl chloride	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Xylenes, Total	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Gasoline Range Organics (GRO)	ND		240		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
-C5-C12									
TBA	ND		9.7		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
DIPE	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
TAME	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Ethyl t-butyl ether	ND		4.9		ug/Kg		10/29/12 07:00	10/29/12 20:14	1
Ethanol	ND		490		ug/Kg		10/29/12 07:00	10/29/12 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131	10/29/12 07:00	10/29/12 20:14	1
1,2-Dichloroethane-d4 (Surr)	114		60 - 140	10/29/12 07:00	10/29/12 20:14	1
Toluene-d8 (Surr)	100		58 - 140	10/29/12 07:00	10/29/12 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH-Hydraulic Oil Range (C19-C36)	ND		50		mg/Kg		10/25/12 18:03	10/26/12 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	102		40 - 130	10/25/12 18:03	10/26/12 16:32	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-45556-5

Date Collected: 10/24/12 07:45

Matrix: Water

Date Received: 10/24/12 15:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			10/29/12 14:38	1
Acetone	ND		50		ug/L			10/29/12 14:38	1
Benzene	ND		0.50		ug/L			10/29/12 14:38	1
Dichlorobromomethane	ND		0.50		ug/L			10/29/12 14:38	1
Bromobenzene	ND		1.0		ug/L			10/29/12 14:38	1
Chlorobromomethane	ND		1.0		ug/L			10/29/12 14:38	1
Bromoform	ND		1.0		ug/L			10/29/12 14:38	1
Bromomethane	ND		1.0		ug/L			10/29/12 14:38	1
n-Butylbenzene	ND		1.0		ug/L			10/29/12 14:38	1
sec-Butylbenzene	ND		1.0		ug/L			10/29/12 14:38	1
tert-Butylbenzene	ND		1.0		ug/L			10/29/12 14:38	1
Carbon disulfide	ND		5.0		ug/L			10/29/12 14:38	1
Carbon tetrachloride	ND		0.50		ug/L			10/29/12 14:38	1
Chlorobenzene	ND		0.50		ug/L			10/29/12 14:38	1
Chloroethane	ND		1.0		ug/L			10/29/12 14:38	1
Chloroform	ND		1.0		ug/L			10/29/12 14:38	1
Chloromethane	ND		1.0		ug/L			10/29/12 14:38	1
2-Chlorotoluene	ND		0.50		ug/L			10/29/12 14:38	1
4-Chlorotoluene	ND		0.50		ug/L			10/29/12 14:38	1
Chlorodibromomethane	ND		0.50		ug/L			10/29/12 14:38	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/29/12 14:38	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/29/12 14:38	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/29/12 14:38	1
1,3-Dichloropropane	ND		1.0		ug/L			10/29/12 14:38	1
1,1-Dichloropropene	ND		0.50		ug/L			10/29/12 14:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/29/12 14:38	1
Ethylene Dibromide	ND		0.50		ug/L			10/29/12 14:38	1
Dibromomethane	ND		0.50		ug/L			10/29/12 14:38	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/29/12 14:38	1
1,1-Dichloroethane	ND		0.50		ug/L			10/29/12 14:38	1
1,2-Dichloroethane	ND		0.50		ug/L			10/29/12 14:38	1
1,1-Dichloroethene	ND		0.50		ug/L			10/29/12 14:38	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/29/12 14:38	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/29/12 14:38	1
1,2-Dichloropropane	ND		0.50		ug/L			10/29/12 14:38	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/12 14:38	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/29/12 14:38	1
Ethylbenzene	ND		0.50		ug/L			10/29/12 14:38	1
Hexachlorobutadiene	ND		1.0		ug/L			10/29/12 14:38	1
2-Hexanone	ND		50		ug/L			10/29/12 14:38	1
Isopropylbenzene	ND		0.50		ug/L			10/29/12 14:38	1
4-Isopropyltoluene	ND		1.0		ug/L			10/29/12 14:38	1
Methylene Chloride	ND		5.0		ug/L			10/29/12 14:38	1
Naphthalene	ND		1.0		ug/L			10/29/12 14:38	1
N-Propylbenzene	ND		1.0		ug/L			10/29/12 14:38	1
Styrene	ND		0.50		ug/L			10/29/12 14:38	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/29/12 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/29/12 14:38	1
Tetrachloroethene	ND		0.50		ug/L			10/29/12 14:38	1
Toluene	ND		0.50		ug/L			10/29/12 14:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/29/12 14:38	1

Client Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-45556-5

Date Collected: 10/24/12 07:45

Matrix: Water

Date Received: 10/24/12 15:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/29/12 14:38	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/29/12 14:38	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/29/12 14:38	1
Trichloroethene	ND		0.50		ug/L			10/29/12 14:38	1
Trichlorofluoromethane	ND		1.0		ug/L			10/29/12 14:38	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/29/12 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/29/12 14:38	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/29/12 14:38	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/29/12 14:38	1
Vinyl acetate	ND		10		ug/L			10/30/12 23:28	1
Vinyl chloride	ND		0.50		ug/L			10/29/12 14:38	1
Xylenes, Total	ND		1.0		ug/L			10/29/12 14:38	1
2,2-Dichloropropane	ND		0.50		ug/L			10/29/12 14:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/29/12 14:38	1
TBA	ND		4.0		ug/L			10/29/12 14:38	1
Ethanol	ND		250		ug/L			10/29/12 14:38	1
DIPE	ND		0.50		ug/L			10/29/12 14:38	1
TAME	ND		0.50		ug/L			10/29/12 14:38	1
Ethyl t-butyl ether	ND		0.50		ug/L			10/29/12 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		67 - 130		10/29/12 14:38	1
4-Bromofluorobenzene	100		67 - 130		10/30/12 23:28	1
1,2-Dichloroethane-d4 (Surr)	104		75 - 138		10/29/12 14:38	1
1,2-Dichloroethane-d4 (Surr)	102		75 - 138		10/30/12 23:28	1
Toluene-d8 (Surr)	98		70 - 130		10/29/12 14:38	1
Toluene-d8 (Surr)	99		70 - 130		10/30/12 23:28	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-124139/4

Matrix: Water

Analysis Batch: 124139

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		0.50		ug/L			10/29/12 09:31	1
Acetone	ND		50		ug/L			10/29/12 09:31	1
Benzene	ND		0.50		ug/L			10/29/12 09:31	1
Dichlorobromomethane	ND		0.50		ug/L			10/29/12 09:31	1
Bromobenzene	ND		1.0		ug/L			10/29/12 09:31	1
Chlorobromomethane	ND		1.0		ug/L			10/29/12 09:31	1
Bromoform	ND		1.0		ug/L			10/29/12 09:31	1
Bromomethane	ND		1.0		ug/L			10/29/12 09:31	1
n-Butylbenzene	ND		1.0		ug/L			10/29/12 09:31	1
sec-Butylbenzene	ND		1.0		ug/L			10/29/12 09:31	1
tert-Butylbenzene	ND		1.0		ug/L			10/29/12 09:31	1
Carbon disulfide	ND		5.0		ug/L			10/29/12 09:31	1
Carbon tetrachloride	ND		0.50		ug/L			10/29/12 09:31	1
Chlorobenzene	ND		0.50		ug/L			10/29/12 09:31	1
Chloroethane	ND		1.0		ug/L			10/29/12 09:31	1
Chloroform	ND		1.0		ug/L			10/29/12 09:31	1
Chloromethane	ND		1.0		ug/L			10/29/12 09:31	1
2-Chlorotoluene	ND		0.50		ug/L			10/29/12 09:31	1
4-Chlorotoluene	ND		0.50		ug/L			10/29/12 09:31	1
Chlorodibromomethane	ND		0.50		ug/L			10/29/12 09:31	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/29/12 09:31	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/29/12 09:31	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/29/12 09:31	1
1,3-Dichloropropane	ND		1.0		ug/L			10/29/12 09:31	1
1,1-Dichloropropene	ND		0.50		ug/L			10/29/12 09:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/29/12 09:31	1
Ethylene Dibromide	ND		0.50		ug/L			10/29/12 09:31	1
Dibromomethane	ND		0.50		ug/L			10/29/12 09:31	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/29/12 09:31	1
1,1-Dichloroethane	ND		0.50		ug/L			10/29/12 09:31	1
1,2-Dichloroethane	ND		0.50		ug/L			10/29/12 09:31	1
1,1-Dichloroethene	ND		0.50		ug/L			10/29/12 09:31	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/29/12 09:31	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/29/12 09:31	1
1,2-Dichloropropane	ND		0.50		ug/L			10/29/12 09:31	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/29/12 09:31	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/29/12 09:31	1
Ethylbenzene	ND		0.50		ug/L			10/29/12 09:31	1
Hexachlorobutadiene	ND		1.0		ug/L			10/29/12 09:31	1
2-Hexanone	ND		50		ug/L			10/29/12 09:31	1
Isopropylbenzene	ND		0.50		ug/L			10/29/12 09:31	1
4-Isopropyltoluene	ND		1.0		ug/L			10/29/12 09:31	1
Methylene Chloride	ND		5.0		ug/L			10/29/12 09:31	1
Naphthalene	ND		1.0		ug/L			10/29/12 09:31	1
N-Propylbenzene	ND		1.0		ug/L			10/29/12 09:31	1
Styrene	ND		0.50		ug/L			10/29/12 09:31	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/29/12 09:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/29/12 09:31	1
Tetrachloroethene	ND		0.50		ug/L			10/29/12 09:31	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-124139/4

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50		ug/L			10/29/12 09:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/29/12 09:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/29/12 09:31	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/29/12 09:31	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/29/12 09:31	1
Trichloroethene	ND		0.50		ug/L			10/29/12 09:31	1
Trichlorofluoromethane	ND		1.0		ug/L			10/29/12 09:31	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/29/12 09:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/29/12 09:31	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/29/12 09:31	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/29/12 09:31	1
Vinyl chloride	ND		0.50		ug/L			10/29/12 09:31	1
Xylenes, Total	ND		1.0		ug/L			10/29/12 09:31	1
2,2-Dichloropropane	ND		0.50		ug/L			10/29/12 09:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/29/12 09:31	1
TBA	ND		4.0		ug/L			10/29/12 09:31	1
DIPE	ND		0.50		ug/L			10/29/12 09:31	1
TAME	ND		0.50		ug/L			10/29/12 09:31	1
Ethyl t-butyl ether	ND		0.50		ug/L			10/29/12 09:31	1
Ethanol	ND		250		ug/L			10/29/12 09:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130		10/29/12 09:31	1
1,2-Dichloroethane-d4 (Surr)	106		75 - 138		10/29/12 09:31	1
Toluene-d8 (Surr)	97		70 - 130		10/29/12 09:31	1

Lab Sample ID: LCS 720-124139/5

Matrix: Water

Analysis Batch: 124139

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	25.0	25.1		ug/L		100	62 - 130
Acetone	125	127		ug/L		101	26 - 180
Benzene	25.0	23.2		ug/L		93	79 - 130
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 130
Bromobenzene	25.0	25.6		ug/L		102	70 - 130
Chlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Bromoform	25.0	28.2		ug/L		113	68 - 136
Bromomethane	25.0	28.7		ug/L		115	43 - 151
n-Butylbenzene	25.0	26.8		ug/L		107	70 - 142
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 134
tert-Butylbenzene	25.0	27.2		ug/L		109	70 - 135
Carbon disulfide	25.0	26.5		ug/L		106	58 - 130
Carbon tetrachloride	25.0	27.1		ug/L		108	70 - 146
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	28.3		ug/L		113	62 - 138
Chloroform	25.0	25.5		ug/L		102	70 - 130
Chloromethane	25.0	26.3		ug/L		105	52 - 175
2-Chlorotoluene	25.0	27.4		ug/L		110	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-124139/5

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
Chlorodibromomethane	25.0	28.7		ug/L		115	70 - 145
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.4		ug/L		106	70 - 130
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	70 - 136
Ethylene Dibromide	25.0	27.0		ug/L		108	70 - 130
Dibromomethane	25.0	25.7		ug/L		103	70 - 130
Dichlorodifluoromethane	25.0	22.7		ug/L		91	34 - 132
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	26.0		ug/L		104	61 - 132
1,1-Dichloroethene	25.0	23.8		ug/L		95	64 - 128
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	68 - 130
1,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	28.7		ug/L		115	70 - 130
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	70 - 140
Ethylbenzene	25.0	25.5		ug/L		102	80 - 120
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130
2-Hexanone	125	131		ug/L		104	60 - 164
Isopropylbenzene	25.0	27.2		ug/L		109	70 - 130
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147
Naphthalene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	27.1		ug/L		108	70 - 130
Styrene	25.0	26.4		ug/L		106	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.0		ug/L		108	70 - 130
Tetrachloroethene	25.0	25.3		ug/L		101	70 - 130
Toluene	25.0	24.2		ug/L		97	78 - 120
1,2,3-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	70 - 130
Trichloroethene	25.0	25.3		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	25.7		ug/L		103	66 - 132
1,2,3-Trichloropropane	25.0	28.0		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		94	42 - 162
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	70 - 132
1,3,5-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 130
Vinyl chloride	25.0	28.8		ug/L		115	54 - 135
m-Xylene & p-Xylene	50.0	51.6		ug/L		103	70 - 142
o-Xylene	25.0	27.4		ug/L		109	70 - 130
2,2-Dichloropropane	25.0	28.5		ug/L		114	70 - 140
TBA	500	437		ug/L		87	70 - 130
DIPE	25.0	24.4		ug/L		98	69 - 134
TAME	25.0	25.5		ug/L		102	79 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-124139/5

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl t-butyl ether	25.0	24.8		ug/L		99	70 - 130
Ethanol	500	552		ug/L		110	31 - 216

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		75 - 138
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCS 720-124139/7

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	486		ug/L		97	62 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		75 - 138
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 720-124139/6

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.2		ug/L		101	62 - 130	0	20
Acetone	125	126		ug/L		101	26 - 180	0	30
Benzene	25.0	23.0		ug/L		92	79 - 130	1	20
Dichlorobromomethane	25.0	27.6		ug/L		111	70 - 130	0	20
Bromobenzene	25.0	25.3		ug/L		101	70 - 130	1	20
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130	0	20
Bromoform	25.0	27.8		ug/L		111	68 - 136	2	20
Bromomethane	25.0	28.4		ug/L		114	43 - 151	1	20
n-Butylbenzene	25.0	27.0		ug/L		108	70 - 142	1	20
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 134	0	20
tert-Butylbenzene	25.0	27.2		ug/L		109	70 - 135	0	20
Carbon disulfide	25.0	26.6		ug/L		106	58 - 130	0	20
Carbon tetrachloride	25.0	26.7		ug/L		107	70 - 146	1	20
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
Chloroethane	25.0	28.6		ug/L		114	62 - 138	1	20
Chloroform	25.0	25.1		ug/L		100	70 - 130	2	20
Chloromethane	25.0	26.8		ug/L		107	52 - 175	2	20
2-Chlorotoluene	25.0	27.1		ug/L		108	70 - 130	1	20
4-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130	1	20
Chlorodibromomethane	25.0	28.1		ug/L		112	70 - 145	2	20
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	2	20

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-124139/6

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	25.0	26.1		ug/L		104	70 - 130	1	20
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	70 - 136	4	20
Ethylene Dibromide	25.0	26.9		ug/L		107	70 - 130	0	20
Dibromomethane	25.0	25.4		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	25.0	22.7		ug/L		91	34 - 132	0	20
1,1-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	1	20
1,2-Dichloroethane	25.0	25.7		ug/L		103	61 - 132	1	20
1,1-Dichloroethene	25.0	23.5		ug/L		94	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	68 - 130	1	20
1,2-Dichloropropane	25.0	24.6		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	28.2		ug/L		113	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	27.4		ug/L		110	70 - 140	2	20
Ethylbenzene	25.0	25.6		ug/L		103	80 - 120	0	20
Hexachlorobutadiene	25.0	26.0		ug/L		104	70 - 130	2	20
2-Hexanone	125	133		ug/L		107	60 - 164	2	20
Isopropylbenzene	25.0	27.3		ug/L		109	70 - 130	0	20
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130	0	20
Methylene Chloride	25.0	22.6		ug/L		91	70 - 147	0	20
Naphthalene	25.0	26.8		ug/L		107	70 - 130	4	20
N-Propylbenzene	25.0	26.8		ug/L		107	70 - 130	1	20
Styrene	25.0	26.5		ug/L		106	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	27.3		ug/L		109	70 - 130	1	20
Tetrachloroethene	25.0	25.4		ug/L		102	70 - 130	1	20
Toluene	25.0	24.3		ug/L		97	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	70 - 130	2	20
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	0	20
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130	4	20
Trichloroethene	25.0	25.4		ug/L		102	70 - 130	1	20
Trichlorofluoromethane	25.0	25.4		ug/L		102	66 - 132	1	20
1,2,3-Trichloropropane	25.0	28.4		ug/L		114	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7		ug/L		95	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	26.9		ug/L		107	70 - 130	1	20
Vinyl chloride	25.0	28.6		ug/L		114	54 - 135	1	20
m-Xylene & p-Xylene	50.0	51.6		ug/L		103	70 - 142	0	20
o-Xylene	25.0	27.3		ug/L		109	70 - 130	0	20
2,2-Dichloropropane	25.0	28.2		ug/L		113	70 - 140	1	20
TBA	500	460		ug/L		92	70 - 130	5	20
DIPE	25.0	24.4		ug/L		98	69 - 134	0	20
TAME	25.0	25.1		ug/L		101	79 - 130	2	20
Ethyl t-butyl ether	25.0	24.5		ug/L		98	70 - 130	1	20
Ethanol	500	561		ug/L		112	31 - 216	1	30

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-124139/6

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		75 - 138
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: LCSD 720-124139/8

Matrix: Water

Analysis Batch: 124139

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	473		ug/L		95	62 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	104		75 - 138
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 720-124293/4

Matrix: Water

Analysis Batch: 124293

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		0.50		ug/L			10/30/12 19:11	1
Acetone	ND		50		ug/L			10/30/12 19:11	1
Benzene	ND		0.50		ug/L			10/30/12 19:11	1
Dichlorobromomethane	ND		0.50		ug/L			10/30/12 19:11	1
Bromobenzene	ND		1.0		ug/L			10/30/12 19:11	1
Chlorobromomethane	ND		1.0		ug/L			10/30/12 19:11	1
Bromoform	ND		1.0		ug/L			10/30/12 19:11	1
Bromomethane	ND		1.0		ug/L			10/30/12 19:11	1
n-Butylbenzene	ND		1.0		ug/L			10/30/12 19:11	1
sec-Butylbenzene	ND		1.0		ug/L			10/30/12 19:11	1
tert-Butylbenzene	ND		1.0		ug/L			10/30/12 19:11	1
Carbon disulfide	ND		5.0		ug/L			10/30/12 19:11	1
Carbon tetrachloride	ND		0.50		ug/L			10/30/12 19:11	1
Chlorobenzene	ND		0.50		ug/L			10/30/12 19:11	1
Chloroethane	ND		1.0		ug/L			10/30/12 19:11	1
Chloroform	ND		1.0		ug/L			10/30/12 19:11	1
Chloromethane	ND		1.0		ug/L			10/30/12 19:11	1
2-Chlorotoluene	ND		0.50		ug/L			10/30/12 19:11	1
4-Chlorotoluene	ND		0.50		ug/L			10/30/12 19:11	1
Chlorodibromomethane	ND		0.50		ug/L			10/30/12 19:11	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/30/12 19:11	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/30/12 19:11	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/30/12 19:11	1
1,3-Dichloropropane	ND		1.0		ug/L			10/30/12 19:11	1
1,1-Dichloropropene	ND		0.50		ug/L			10/30/12 19:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/30/12 19:11	1
Ethylene Dibromide	ND		0.50		ug/L			10/30/12 19:11	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-124293/4

Matrix: Water

Analysis Batch: 124293

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		0.50		ug/L			10/30/12 19:11	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/30/12 19:11	1
1,1-Dichloroethane	ND		0.50		ug/L			10/30/12 19:11	1
1,2-Dichloroethane	ND		0.50		ug/L			10/30/12 19:11	1
1,1-Dichloroethene	ND		0.50		ug/L			10/30/12 19:11	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/30/12 19:11	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/30/12 19:11	1
1,2-Dichloropropane	ND		0.50		ug/L			10/30/12 19:11	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/12 19:11	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/30/12 19:11	1
Ethylbenzene	ND		0.50		ug/L			10/30/12 19:11	1
Hexachlorobutadiene	ND		1.0		ug/L			10/30/12 19:11	1
2-Hexanone	ND		50		ug/L			10/30/12 19:11	1
Isopropylbenzene	ND		0.50		ug/L			10/30/12 19:11	1
4-Isopropyltoluene	ND		1.0		ug/L			10/30/12 19:11	1
Methylene Chloride	ND		5.0		ug/L			10/30/12 19:11	1
Naphthalene	ND		1.0		ug/L			10/30/12 19:11	1
N-Propylbenzene	ND		1.0		ug/L			10/30/12 19:11	1
Styrene	ND		0.50		ug/L			10/30/12 19:11	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/30/12 19:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/30/12 19:11	1
Tetrachloroethene	ND		0.50		ug/L			10/30/12 19:11	1
Toluene	ND		0.50		ug/L			10/30/12 19:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/30/12 19:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/30/12 19:11	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/30/12 19:11	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/30/12 19:11	1
Trichloroethene	ND		0.50		ug/L			10/30/12 19:11	1
Trichlorofluoromethane	ND		1.0		ug/L			10/30/12 19:11	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/30/12 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/30/12 19:11	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/30/12 19:11	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/30/12 19:11	1
Vinyl acetate	ND		10		ug/L			10/30/12 19:11	1
Vinyl chloride	ND		0.50		ug/L			10/30/12 19:11	1
Xylenes, Total	ND		1.0		ug/L			10/30/12 19:11	1
2,2-Dichloropropane	ND		0.50		ug/L			10/30/12 19:11	1
Gasoline Range Organics (GRO)	ND		50		ug/L			10/30/12 19:11	1
-C5-C12									
TBA	ND		4.0		ug/L			10/30/12 19:11	1
DIPE	ND		0.50		ug/L			10/30/12 19:11	1
TAME	ND		0.50		ug/L			10/30/12 19:11	1
Ethyl t-butyl ether	ND		0.50		ug/L			10/30/12 19:11	1
Ethanol	ND		250		ug/L			10/30/12 19:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		67 - 130		10/30/12 19:11	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 138		10/30/12 19:11	1
Toluene-d8 (Surr)	99		70 - 130		10/30/12 19:11	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-124293/5

Matrix: Water

Analysis Batch: 124293

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	25.0	24.9		ug/L		100	62 - 130
Acetone	125	109		ug/L		88	26 - 180
Benzene	25.0	25.2		ug/L		101	79 - 130
Dichlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Bromobenzene	25.0	25.7		ug/L		103	70 - 130
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Bromoform	25.0	25.8		ug/L		103	68 - 136
Bromomethane	25.0	25.0		ug/L		100	43 - 151
n-Butylbenzene	25.0	26.4		ug/L		105	70 - 142
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 134
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 135
Carbon disulfide	25.0	25.8		ug/L		103	58 - 130
Carbon tetrachloride	25.0	26.6		ug/L		106	70 - 146
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	24.4		ug/L		97	62 - 138
Chloroform	25.0	25.1		ug/L		101	70 - 130
Chloromethane	25.0	23.4		ug/L		94	52 - 175
2-Chlorotoluene	25.0	26.6		ug/L		107	70 - 130
4-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
Chlorodibromomethane	25.0	25.4		ug/L		102	70 - 145
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.6		ug/L		82	70 - 136
Ethylene Dibromide	25.0	26.6		ug/L		106	70 - 130
Dibromomethane	25.0	24.9		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	18.8		ug/L		75	34 - 132
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	24.2		ug/L		97	61 - 132
1,1-Dichloroethene	25.0	24.1		ug/L		96	64 - 128
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	68 - 130
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 140
Ethylbenzene	25.0	25.1		ug/L		100	80 - 120
Hexachlorobutadiene	25.0	21.5		ug/L		86	70 - 130
2-Hexanone	125	119		ug/L		95	60 - 164
Isopropylbenzene	25.0	27.3		ug/L		109	70 - 130
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130
Methylene Chloride	25.0	24.0		ug/L		96	70 - 147
Naphthalene	25.0	21.2		ug/L		85	70 - 130
N-Propylbenzene	25.0	27.9		ug/L		112	70 - 130
Styrene	25.0	27.5		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130
Tetrachloroethene	25.0	26.1		ug/L		105	70 - 130

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-124293/5

Matrix: Water

Analysis Batch: 124293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	25.0		ug/L		100	78 - 120
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	25.0	26.1		ug/L		105	70 - 130
Trichloroethene	25.0	25.9		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	22.9		ug/L		91	66 - 132
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		104	42 - 162
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 132
1,3,5-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
Vinyl acetate	25.0	26.8		ug/L		107	43 - 163
Vinyl chloride	25.0	22.7		ug/L		91	54 - 135
m-Xylene & p-Xylene	50.0	51.9		ug/L		104	70 - 142
o-Xylene	25.0	26.8		ug/L		107	70 - 130
2,2-Dichloropropane	25.0	31.7		ug/L		127	70 - 140
TBA	500	474		ug/L		95	70 - 130
DIPE	25.0	25.3		ug/L		101	69 - 134
TAME	25.0	27.4		ug/L		110	79 - 130
Ethyl t-butyl ether	25.0	25.7		ug/L		103	70 - 130
Ethanol	500	489		ug/L		98	31 - 216

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	94		75 - 138
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 720-124293/6

Matrix: Water

Analysis Batch: 124293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.8		ug/L		99	62 - 130	0	20
Acetone	125	117		ug/L		94	26 - 180	7	30
Benzene	25.0	25.2		ug/L		101	79 - 130	0	20
Dichlorobromomethane	25.0	24.7		ug/L		99	70 - 130	1	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	1	20
Chlorobromomethane	25.0	25.7		ug/L		103	70 - 130	1	20
Bromoform	25.0	25.9		ug/L		104	68 - 136	0	20
Bromomethane	25.0	25.1		ug/L		101	43 - 151	1	20
n-Butylbenzene	25.0	26.9		ug/L		107	70 - 142	2	20
sec-Butylbenzene	25.0	26.4		ug/L		105	70 - 134	1	20
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 135	1	20
Carbon disulfide	25.0	26.3		ug/L		105	58 - 130	2	20
Carbon tetrachloride	25.0	26.4		ug/L		106	70 - 146	1	20
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20
Chloroethane	25.0	24.6		ug/L		98	62 - 138	1	20
Chloroform	25.0	25.0		ug/L		100	70 - 130	1	20
Chloromethane	25.0	23.8		ug/L		95	52 - 175	2	20

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-124293/6

Matrix: Water

Analysis Batch: 124293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	1	20	
4-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	1	20	
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 145	3	20	
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20	
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130	0	20	
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20	
1,3-Dichloropropane	25.0	25.6		ug/L		102	70 - 130	1	20	
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	0	20	
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		88	70 - 136	6	20	
Ethylene Dibromide	25.0	26.1		ug/L		105	70 - 130	2	20	
Dibromomethane	25.0	24.8		ug/L		99	70 - 130	1	20	
Dichlorodifluoromethane	25.0	19.1		ug/L		76	34 - 132	2	20	
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	0	20	
1,2-Dichloroethane	25.0	23.9		ug/L		96	61 - 132	1	20	
1,1-Dichloroethene	25.0	24.4		ug/L		98	64 - 128	1	20	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	68 - 130	1	20	
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	0	20	
cis-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 130	1	20	
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 140	1	20	
Ethylbenzene	25.0	25.2		ug/L		101	80 - 120	0	20	
Hexachlorobutadiene	25.0	23.5		ug/L		94	70 - 130	9	20	
2-Hexanone	125	115		ug/L		92	60 - 164	3	20	
Isopropylbenzene	25.0	27.3		ug/L		109	70 - 130	0	20	
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130	1	20	
Methylene Chloride	25.0	24.1		ug/L		96	70 - 147	0	20	
Naphthalene	25.0	22.5		ug/L		90	70 - 130	6	20	
N-Propylbenzene	25.0	27.7		ug/L		111	70 - 130	1	20	
Styrene	25.0	27.6		ug/L		111	70 - 130	1	20	
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130	1	20	
1,1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130	1	20	
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130	0	20	
Toluene	25.0	25.2		ug/L		101	78 - 120	1	20	
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130	5	20	
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20	
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130	1	20	
1,1,2-Trichloroethane	25.0	25.6		ug/L		103	70 - 130	2	20	
Trichloroethene	25.0	25.9		ug/L		104	70 - 130	0	20	
Trichlorofluoromethane	25.0	23.7		ug/L		95	66 - 132	4	20	
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	70 - 130	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.4		ug/L		106	42 - 162	1	20	
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 132	0	20	
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130	0	20	
Vinyl acetate	25.0	26.9		ug/L		108	43 - 163	0	20	
Vinyl chloride	25.0	23.0		ug/L		92	54 - 135	1	20	
m-Xylene & p-Xylene	50.0	52.2		ug/L		104	70 - 142	1	20	
o-Xylene	25.0	26.6		ug/L		106	70 - 130	1	20	
2,2-Dichloropropane	25.0	31.8		ug/L		127	70 - 140	0	20	
TBA	500	462		ug/L		92	70 - 130	3	20	

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-124293/6

Matrix: Water

Analysis Batch: 124293

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DIPE	25.0	25.3		ug/L		101	69 - 134	0	20
TAME	25.0	27.3		ug/L		109	79 - 130	0	20
Ethyl t-butyl ether	25.0	25.5		ug/L		102	70 - 130	0	20
Ethanol	500	499		ug/L		100	31 - 216	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	92		75 - 138
Toluene-d8 (Surr)	102		70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-124177/1-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 124177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Acetone	ND		50		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Benzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Bromobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Chlorobromomethane	ND		20		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Bromoform	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Bromomethane	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
n-Butylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
sec-Butylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
tert-Butylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Carbon disulfide	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Chlorobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Chloroethane	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Chloroform	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Chloromethane	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
2-Chlorotoluene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
4-Chlorotoluene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Dibromomethane	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Dichlorodifluoromethane	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-124177/1-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 124177

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Ethylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Hexachlorobutadiene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
2-Hexanone	ND		50		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Isopropylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
4-Isopropyltoluene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Methylene Chloride	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Naphthalene	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
N-Propylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Styrene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Tetrachloroethene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Toluene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Trichloroethene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Vinyl acetate	ND		50		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Vinyl chloride	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Xylenes, Total	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
-C5-C12									
TBA	ND		10		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
DIPE	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
TAME	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Ethyl t-butyl ether	ND		5.0		ug/Kg		10/29/12 07:00	10/29/12 11:07	1
Ethanol	ND		500		ug/Kg		10/29/12 07:00	10/29/12 11:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	102		45 - 131	10/29/12 07:00	10/29/12 11:07	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140	10/29/12 07:00	10/29/12 11:07	1
Toluene-d8 (Surr)	100		58 - 140	10/29/12 07:00	10/29/12 11:07	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-124177/2-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.5		ug/Kg		111	70 - 144
Acetone	250	312		ug/Kg		125	30 - 162
Benzene	50.0	46.2		ug/Kg		92	70 - 130
Dichlorobromomethane	50.0	48.8		ug/Kg		98	70 - 131
Bromobenzene	50.0	46.9		ug/Kg		94	70 - 130
Chlorobromomethane	50.0	49.5		ug/Kg		99	70 - 130
Bromoform	50.0	47.6		ug/Kg		95	59 - 158
Bromomethane	50.0	45.5		ug/Kg		91	59 - 132
n-Butylbenzene	50.0	48.2		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	47.0		ug/Kg		94	70 - 136
tert-Butylbenzene	50.0	46.4		ug/Kg		93	70 - 130
Carbon disulfide	50.0	48.2		ug/Kg		96	60 - 140
Carbon tetrachloride	50.0	51.8		ug/Kg		104	70 - 138
Chlorobenzene	50.0	47.9		ug/Kg		96	70 - 130
Chloroethane	50.0	45.7		ug/Kg		91	65 - 130
Chloroform	50.0	48.7		ug/Kg		97	77 - 127
Chloromethane	50.0	43.6		ug/Kg		87	55 - 140
2-Chlorotoluene	50.0	48.1		ug/Kg		96	70 - 138
4-Chlorotoluene	50.0	47.5		ug/Kg		95	70 - 136
Chlorodibromomethane	50.0	54.7		ug/Kg		109	70 - 146
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	50.0	48.1		ug/Kg		96	70 - 131
1,4-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 130
1,3-Dichloropropane	50.0	52.4		ug/Kg		105	70 - 140
1,1-Dichloropropene	50.0	48.0		ug/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.7		ug/Kg		107	60 - 145
Ethylene Dibromide	50.0	54.7		ug/Kg		109	70 - 140
Dibromomethane	50.0	50.7		ug/Kg		101	70 - 139
Dichlorodifluoromethane	50.0	39.1		ug/Kg		78	37 - 158
1,1-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 130
1,2-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	44.2		ug/Kg		88	76 - 122
cis-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	70 - 138
trans-1,2-Dichloroethene	50.0	45.3		ug/Kg		91	67 - 130
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	52.8		ug/Kg		106	68 - 147
trans-1,3-Dichloropropene	50.0	57.4		ug/Kg		115	70 - 136
Ethylbenzene	50.0	47.0		ug/Kg		94	80 - 137
Hexachlorobutadiene	50.0	43.2		ug/Kg		86	70 - 132
2-Hexanone	250	291		ug/Kg		116	44 - 133
Isopropylbenzene	50.0	50.0		ug/Kg		100	88 - 128
4-Isopropyltoluene	50.0	46.6		ug/Kg		93	70 - 133
Methylene Chloride	50.0	45.7		ug/Kg		91	70 - 134
Naphthalene	50.0	47.9		ug/Kg		96	60 - 147
N-Propylbenzene	50.0	49.0		ug/Kg		98	70 - 130
Styrene	50.0	50.1		ug/Kg		100	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/Kg		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	70 - 146
Tetrachloroethene	50.0	48.8		ug/Kg		98	70 - 132

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-124177/2-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	50.0	45.6		ug/Kg		91	80 - 128
1,2,3-Trichlorobenzene	50.0	52.3		ug/Kg		105	60 - 140
1,2,4-Trichlorobenzene	50.0	46.6		ug/Kg		93	60 - 140
1,1,1-Trichloroethane	50.0	49.8		ug/Kg		100	70 - 130
1,1,2-Trichloroethane	50.0	53.2		ug/Kg		106	70 - 130
Trichloroethene	50.0	46.9		ug/Kg		94	70 - 133
Trichlorofluoromethane	50.0	46.5		ug/Kg		93	60 - 140
1,2,3-Trichloropropane	50.0	52.5		ug/Kg		105	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.1		ug/Kg		100	60 - 140
1,2,4-Trimethylbenzene	50.0	46.9		ug/Kg		94	70 - 130
1,3,5-Trimethylbenzene	50.0	47.3		ug/Kg		95	70 - 131
Vinyl acetate	50.0	69.0		ug/Kg		138	38 - 176
Vinyl chloride	50.0	44.7		ug/Kg		89	58 - 125
m-Xylene & p-Xylene	100	99.2		ug/Kg		99	70 - 146
o-Xylene	50.0	50.3		ug/Kg		101	70 - 140
2,2-Dichloropropane	50.0	61.9		ug/Kg		124	70 - 162
TBA	1000	884		ug/Kg		88	63 - 130
DIPE	50.0	52.0		ug/Kg		104	70 - 131
TAME	50.0	58.0		ug/Kg		116	70 - 140
Ethyl t-butyl ether	50.0	54.8		ug/Kg		110	70 - 130
Ethanol	1000	843		ug/Kg		84	49 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	106		45 - 131
1,2-Dichloroethane-d4 (Surr)	107		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Lab Sample ID: LCS 720-124177/4-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	898		ug/Kg		90	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	105		45 - 131
1,2-Dichloroethane-d4 (Surr)	110		60 - 140
Toluene-d8 (Surr)	103		58 - 140

Lab Sample ID: LCSD 720-124177/3-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Methyl tert-butyl ether	50.0	54.9		ug/Kg		110	70 - 144	1	20
Acetone	250	293		ug/Kg		117	30 - 162	6	30
Benzene	50.0	48.1		ug/Kg		96	70 - 130	4	20
Dichlorobromomethane	50.0	50.0		ug/Kg		100	70 - 131	2	20

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-124177/3-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits	RPD	Limit
Bromobenzene	50.0	48.6		ug/Kg		97	70 - 130	4	20
Chlorobromomethane	50.0	50.4		ug/Kg		101	70 - 130	2	20
Bromoform	50.0	47.1		ug/Kg		94	59 - 158	1	20
Bromomethane	50.0	46.8		ug/Kg		94	59 - 132	3	20
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142	6	20
sec-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 136	7	20
tert-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 130	7	20
Carbon disulfide	50.0	50.3		ug/Kg		101	60 - 140	4	20
Carbon tetrachloride	50.0	54.0		ug/Kg		108	70 - 138	4	20
Chlorobenzene	50.0	49.5		ug/Kg		99	70 - 130	3	20
Chloroethane	50.0	47.8		ug/Kg		96	65 - 130	4	20
Chloroform	50.0	50.4		ug/Kg		101	77 - 127	3	20
Chloromethane	50.0	45.5		ug/Kg		91	55 - 140	4	20
2-Chlorotoluene	50.0	50.8		ug/Kg		102	70 - 138	5	20
4-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 136	5	20
Chlorodibromomethane	50.0	55.7		ug/Kg		111	70 - 146	2	20
1,2-Dichlorobenzene	50.0	48.6		ug/Kg		97	70 - 130	4	20
1,3-Dichlorobenzene	50.0	49.8		ug/Kg		100	70 - 131	3	20
1,4-Dichlorobenzene	50.0	50.8		ug/Kg		102	70 - 130	4	20
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 140	1	20
1,1-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/Kg		104	60 - 145	3	20
Ethylene Dibromide	50.0	54.3		ug/Kg		109	70 - 140	1	20
Dibromomethane	50.0	50.3		ug/Kg		101	70 - 139	1	20
Dichlorodifluoromethane	50.0	40.2		ug/Kg		80	37 - 158	3	20
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 130	4	20
1,2-Dichloroethane	50.0	50.5		ug/Kg		101	70 - 130	0	20
1,1-Dichloroethene	50.0	46.1		ug/Kg		92	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	70 - 138	4	20
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	67 - 130	4	20
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	57.4		ug/Kg		115	70 - 136	0	20
Ethylbenzene	50.0	49.2		ug/Kg		98	80 - 137	5	20
Hexachlorobutadiene	50.0	46.4		ug/Kg		93	70 - 132	7	20
2-Hexanone	250	286		ug/Kg		115	44 - 133	2	20
Isopropylbenzene	50.0	52.8		ug/Kg		106	88 - 128	5	20
4-Isopropyltoluene	50.0	50.0		ug/Kg		100	70 - 133	7	20
Methylene Chloride	50.0	46.8		ug/Kg		94	70 - 134	2	20
Naphthalene	50.0	47.8		ug/Kg		96	60 - 147	0	20
N-Propylbenzene	50.0	52.2		ug/Kg		104	70 - 130	6	20
Styrene	50.0	51.9		ug/Kg		104	70 - 130	4	20
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/Kg		108	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 146	2	20
Tetrachloroethene	50.0	51.5		ug/Kg		103	70 - 132	5	20
Toluene	50.0	47.3		ug/Kg		95	80 - 128	3	20
1,2,3-Trichlorobenzene	50.0	53.8		ug/Kg		108	60 - 140	3	20
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	60 - 140	3	20
1,1,1-Trichloroethane	50.0	52.6		ug/Kg		105	70 - 130	5	20
1,1,2-Trichloroethane	50.0	52.5		ug/Kg		105	70 - 130	1	20

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-124177/3-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Trichloroethene	50.0	49.2		ug/Kg		98	70 - 133	5	20	
Trichlorofluoromethane	50.0	48.4		ug/Kg		97	60 - 140	4	20	
1,2,3-Trichloropropane	50.0	51.5		ug/Kg		103	70 - 146	2	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.9		ug/Kg		106	60 - 140	5	20	
1,2,4-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 130	6	20	
1,3,5-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 131	7	20	
Vinyl acetate	50.0	66.3		ug/Kg		133	38 - 176	4	20	
Vinyl chloride	50.0	46.4		ug/Kg		93	58 - 125	4	20	
m-Xylene & p-Xylene	100	103		ug/Kg		103	70 - 146	3	20	
o-Xylene	50.0	52.1		ug/Kg		104	70 - 140	3	20	
2,2-Dichloropropane	50.0	64.9		ug/Kg		130	70 - 162	5	20	
TBA	1000	924		ug/Kg		92	63 - 130	5	20	
DIPE	50.0	53.3		ug/Kg		107	70 - 131	2	20	
TAME	50.0	58.1		ug/Kg		116	70 - 140	0	20	
Ethyl t-butyl ether	50.0	55.1		ug/Kg		110	70 - 130	1	20	
Ethanol	1000	866		ug/Kg		87	49 - 162	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	105		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Lab Sample ID: LCSD 720-124177/5-A

Matrix: Solid

Analysis Batch: 124153

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124177

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	997		ug/Kg		100	61 - 128	10	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	105		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Lab Sample ID: MB 720-124485/1-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 124485

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Acetone	ND		50		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Benzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Bromobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Chlorobromomethane	ND		20		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Bromoform	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Bromomethane	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
n-Butylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-124485/1-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 124485

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Carbon disulfide	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Chlorobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Chloroethane	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Chloroform	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Chloromethane	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1-Dichloropropene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Dibromomethane	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Dichlorodifluoromethane	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Ethylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
2-Hexanone	ND		50		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Isopropylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Methylene Chloride	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Naphthalene	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
N-Propylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Styrene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Tetrachloroethene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Toluene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Trichloroethene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-124485/1-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 124485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Vinyl acetate	ND		50		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Vinyl chloride	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Xylenes, Total	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
-C5-C12									
TBA	ND		10		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
DIPE	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
TAME	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Ethyl t-butyl ether	ND		5.0		ug/Kg		11/01/12 19:00	11/01/12 20:12	1
Ethanol	ND		500		ug/Kg		11/01/12 19:00	11/01/12 20:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		45 - 131	11/01/12 19:00	11/01/12 20:12	1
1,2-Dichloroethane-d4 (Surr)	115		60 - 140	11/01/12 19:00	11/01/12 20:12	1
Toluene-d8 (Surr)	95		58 - 140	11/01/12 19:00	11/01/12 20:12	1

Lab Sample ID: LCS 720-124485/2-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	59.2		ug/Kg		118	70 - 144
Acetone	250	380		ug/Kg		152	30 - 162
Benzene	50.0	51.3		ug/Kg		103	70 - 130
Dichlorobromomethane	50.0	54.3		ug/Kg		109	70 - 131
Bromobenzene	50.0	48.9		ug/Kg		98	70 - 130
Chlorobromomethane	50.0	53.3		ug/Kg		107	70 - 130
Bromoform	50.0	49.6		ug/Kg		99	59 - 158
Bromomethane	50.0	60.0		ug/Kg		120	59 - 132
n-Butylbenzene	50.0	54.4		ug/Kg		109	70 - 142
sec-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 136
tert-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 130
Carbon disulfide	50.0	56.1		ug/Kg		112	60 - 140
Carbon tetrachloride	50.0	59.5		ug/Kg		119	70 - 138
Chlorobenzene	50.0	51.6		ug/Kg		103	70 - 130
Chloroethane	50.0	60.9		ug/Kg		122	65 - 130
Chloroform	50.0	55.0		ug/Kg		110	77 - 127
Chloromethane	50.0	62.9		ug/Kg		126	55 - 140
2-Chlorotoluene	50.0	52.8		ug/Kg		106	70 - 138
4-Chlorotoluene	50.0	52.1		ug/Kg		104	70 - 136
Chlorodibromomethane	50.0	59.1		ug/Kg		118	70 - 146
1,2-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	70 - 131
1,4-Dichlorobenzene	50.0	54.3		ug/Kg		109	70 - 130
1,3-Dichloropropane	50.0	58.0		ug/Kg		116	70 - 140
1,1-Dichloropropene	50.0	52.5		ug/Kg		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/Kg		108	60 - 145
Ethylene Dibromide	50.0	57.8		ug/Kg		116	70 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-124485/2-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	50.0	53.8		ug/Kg		108	70 - 139
Dichlorodifluoromethane	50.0	52.9		ug/Kg		106	37 - 158
1,1-Dichloroethane	50.0	55.0		ug/Kg		110	70 - 130
1,2-Dichloroethane	50.0	55.7		ug/Kg		111	70 - 130
1,1-Dichloroethene	50.0	49.7		ug/Kg		99	76 - 122
cis-1,2-Dichloroethene	50.0	57.6		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	67 - 130
1,2-Dichloropropane	50.0	55.4		ug/Kg		111	73 - 127
cis-1,3-Dichloropropene	50.0	55.8		ug/Kg		112	68 - 147
trans-1,3-Dichloropropene	50.0	60.9		ug/Kg		122	70 - 136
Ethylbenzene	50.0	52.9		ug/Kg		106	80 - 137
Hexachlorobutadiene	50.0	49.6		ug/Kg		99	70 - 132
2-Hexanone	250	369	*	ug/Kg		148	44 - 133
Isopropylbenzene	50.0	56.4		ug/Kg		113	88 - 128
4-Isopropyltoluene	50.0	51.7		ug/Kg		103	70 - 133
Methylene Chloride	50.0	51.1		ug/Kg		102	70 - 134
Naphthalene	50.0	50.0		ug/Kg		100	60 - 147
N-Propylbenzene	50.0	53.9		ug/Kg		108	70 - 130
Styrene	50.0	54.1		ug/Kg		108	70 - 130
1,1,1,2-Tetrachloroethane	50.0	58.1		ug/Kg		116	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/Kg		109	70 - 146
Tetrachloroethene	50.0	53.9		ug/Kg		108	70 - 132
Toluene	50.0	49.7		ug/Kg		99	80 - 128
1,2,3-Trichlorobenzene	50.0	57.7		ug/Kg		115	60 - 140
1,2,4-Trichlorobenzene	50.0	51.1		ug/Kg		102	60 - 140
1,1,1-Trichloroethane	50.0	56.4		ug/Kg		113	70 - 130
1,1,2-Trichloroethane	50.0	57.6		ug/Kg		115	70 - 130
Trichloroethene	50.0	51.2		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	61.6		ug/Kg		123	60 - 140
1,2,3-Trichloropropane	50.0	53.9		ug/Kg		108	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.9		ug/Kg		114	60 - 140
1,2,4-Trimethylbenzene	50.0	51.8		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	50.0	52.3		ug/Kg		105	70 - 131
Vinyl acetate	50.0	83.1		ug/Kg		166	38 - 176
Vinyl chloride	50.0	57.6		ug/Kg		115	58 - 125
m-Xylene & p-Xylene	100	112		ug/Kg		112	70 - 146
o-Xylene	50.0	57.2		ug/Kg		114	70 - 140
2,2-Dichloropropane	50.0	60.7		ug/Kg		121	70 - 162
TBA	1000	988		ug/Kg		99	63 - 130
DIPE	50.0	64.4		ug/Kg		129	70 - 131
TAME	50.0	62.8		ug/Kg		126	70 - 140
Ethyl t-butyl ether	50.0	61.4		ug/Kg		123	70 - 130
Ethanol	1000	1140		ug/Kg		114	49 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	106		60 - 140
Toluene-d8 (Surr)	100		58 - 140

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-124485/4-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1050		ug/Kg		105	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	103		45 - 131
1,2-Dichloroethane-d4 (Surr)	109		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCSD 720-124485/3-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	58.1		ug/Kg		116	70 - 144	2	20
Acetone	250	333		ug/Kg		133	30 - 162	13	30
Benzene	50.0	51.0		ug/Kg		102	70 - 130	1	20
Dichlorobromomethane	50.0	53.8		ug/Kg		108	70 - 131	1	20
Bromobenzene	50.0	48.7		ug/Kg		97	70 - 130	0	20
Chlorobromomethane	50.0	52.5		ug/Kg		105	70 - 130	1	20
Bromoform	50.0	47.9		ug/Kg		96	59 - 158	3	20
Bromomethane	50.0	59.9		ug/Kg		120	59 - 132	0	20
n-Butylbenzene	50.0	54.2		ug/Kg		108	70 - 142	0	20
sec-Butylbenzene	50.0	53.0		ug/Kg		106	70 - 136	1	20
tert-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 130	1	20
Carbon disulfide	50.0	56.5		ug/Kg		113	60 - 140	1	20
Carbon tetrachloride	50.0	60.8		ug/Kg		122	70 - 138	2	20
Chlorobenzene	50.0	51.6		ug/Kg		103	70 - 130	0	20
Chloroethane	50.0	60.4		ug/Kg		121	65 - 130	1	20
Chloroform	50.0	55.1		ug/Kg		110	77 - 127	0	20
Chloromethane	50.0	62.5		ug/Kg		125	55 - 140	1	20
2-Chlorotoluene	50.0	52.9		ug/Kg		106	70 - 138	0	20
4-Chlorotoluene	50.0	52.4		ug/Kg		105	70 - 136	1	20
Chlorodibromomethane	50.0	57.4		ug/Kg		115	70 - 146	3	20
1,2-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 130	0	20
1,3-Dichlorobenzene	50.0	53.1		ug/Kg		106	70 - 131	0	20
1,4-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130	3	20
1,3-Dichloropropane	50.0	55.8		ug/Kg		112	70 - 140	4	20
1,1-Dichloropropene	50.0	52.6		ug/Kg		105	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/Kg		104	60 - 145	4	20
Ethylene Dibromide	50.0	56.2		ug/Kg		112	70 - 140	3	20
Dibromomethane	50.0	53.0		ug/Kg		106	70 - 139	1	20
Dichlorodifluoromethane	50.0	53.3		ug/Kg		107	37 - 158	1	20
1,1-Dichloroethane	50.0	55.6		ug/Kg		111	70 - 130	1	20
1,2-Dichloroethane	50.0	54.8		ug/Kg		110	70 - 130	2	20
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	57.9		ug/Kg		116	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	67 - 130	1	20
1,2-Dichloropropane	50.0	55.6		ug/Kg		111	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	55.3		ug/Kg		111	68 - 147	1	20

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-124485/3-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
trans-1,3-Dichloropropene	50.0	59.9		ug/Kg		120	70 - 136	2	20	
Ethylbenzene	50.0	52.4		ug/Kg		105	80 - 137	1	20	
Hexachlorobutadiene	50.0	49.8		ug/Kg		100	70 - 132	0	20	
2-Hexanone	250	343	*	ug/Kg		137	44 - 133	7	20	
Isopropylbenzene	50.0	56.0		ug/Kg		112	88 - 128	1	20	
4-Isopropyltoluene	50.0	52.5		ug/Kg		105	70 - 133	1	20	
Methylene Chloride	50.0	51.6		ug/Kg		103	70 - 134	1	20	
Naphthalene	50.0	49.0		ug/Kg		98	60 - 147	2	20	
N-Propylbenzene	50.0	54.0		ug/Kg		108	70 - 130	0	20	
Styrene	50.0	53.4		ug/Kg		107	70 - 130	1	20	
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/Kg		115	70 - 130	1	20	
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	70 - 146	3	20	
Tetrachloroethene	50.0	53.4		ug/Kg		107	70 - 132	1	20	
Toluene	50.0	49.3		ug/Kg		99	80 - 128	1	20	
1,2,3-Trichlorobenzene	50.0	57.4		ug/Kg		115	60 - 140	1	20	
1,2,4-Trichlorobenzene	50.0	50.4		ug/Kg		101	60 - 140	1	20	
1,1,1-Trichloroethane	50.0	56.5		ug/Kg		113	70 - 130	0	20	
1,1,2-Trichloroethane	50.0	56.2		ug/Kg		112	70 - 130	3	20	
Trichloroethene	50.0	51.0		ug/Kg		102	70 - 133	0	20	
Trichlorofluoromethane	50.0	61.7		ug/Kg		123	60 - 140	0	20	
1,2,3-Trichloropropane	50.0	53.4		ug/Kg		107	70 - 146	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.8		ug/Kg		116	60 - 140	2	20	
1,2,4-Trimethylbenzene	50.0	51.7		ug/Kg		103	70 - 130	0	20	
1,3,5-Trimethylbenzene	50.0	52.9		ug/Kg		106	70 - 131	1	20	
Vinyl acetate	50.0	80.1		ug/Kg		160	38 - 176	4	20	
Vinyl chloride	50.0	59.7		ug/Kg		119	58 - 125	4	20	
m-Xylene & p-Xylene	100	111		ug/Kg		111	70 - 146	1	20	
o-Xylene	50.0	56.5		ug/Kg		113	70 - 140	1	20	
2,2-Dichloropropane	50.0	55.8		ug/Kg		112	70 - 162	8	20	
TBA	1000	977		ug/Kg		98	63 - 130	1	20	
DIPE	50.0	64.5		ug/Kg		129	70 - 131	0	20	
TAME	50.0	61.7		ug/Kg		123	70 - 140	2	20	
Ethyl t-butyl ether	50.0	61.1		ug/Kg		122	70 - 130	1	20	
Ethanol	1000	1030		ug/Kg		103	49 - 162	10	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	109		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCSD 720-124485/5-A

Matrix: Solid

Analysis Batch: 124475

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128	4	20	

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-124485/5-A
Matrix: Solid
Analysis Batch: 124475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124485

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	111		60 - 140
Toluene-d8 (Surr)	100		58 - 140

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

Lab Sample ID: MB 720-124006/1-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH-Hydraulic Oil Range (C19-C36)	ND		50		mg/Kg		10/25/12 18:03	10/26/12 20:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	106		40 - 130	10/25/12 18:03	10/26/12 20:08	1

Lab Sample ID: LCS 720-124006/2-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.3	74.2		mg/Kg		90	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	123		40 - 130

Lab Sample ID: LCSD 720-124006/3-A
Matrix: Solid
Analysis Batch: 124027

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.5	74.5		mg/Kg		90	50 - 150	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	120		40 - 130

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-123923/1-A
Matrix: Solid
Analysis Batch: 124040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1
PCB-1221	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1
PCB-1232	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1
PCB-1242	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 720-123923/1-A

Matrix: Solid

Analysis Batch: 124040

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 123923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1
PCB-1254	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1
PCB-1260	ND		50		ug/Kg		10/25/12 07:02	10/27/12 02:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		32 - 112	10/25/12 07:02	10/27/12 02:42	1
DCB Decachlorobiphenyl	98		2 - 122	10/25/12 07:02	10/27/12 02:42	1

Lab Sample ID: LCS 720-123923/2-A

Matrix: Solid

Analysis Batch: 124040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 123923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	130	135		ug/Kg		103	65 - 120
PCB-1260	130	133		ug/Kg		102	65 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	104		32 - 112
DCB Decachlorobiphenyl	105		2 - 122

Lab Sample ID: LCSD 720-123923/3-A

Matrix: Solid

Analysis Batch: 124040

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 123923

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	132	152		ug/Kg		116	65 - 120	12	20
PCB-1260	132	146		ug/Kg		111	65 - 120	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	102		32 - 112
DCB Decachlorobiphenyl	106		2 - 122

QC Association Summary

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

GC/MS VOA

Analysis Batch: 124139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-5	TRIP BLANK	Total/NA	Water	8260B	
LCS 720-124139/5	Lab Control Sample	Total/NA	Water	8260B	
LCS 720-124139/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-124139/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 720-124139/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-124139/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 124153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-2	HP-02-SS-33	Total/NA	Solid	8260B/CA_LUFT MS	124177
720-45556-3	HP-01-SS-28	Total/NA	Solid	8260B/CA_LUFT MS	124177
720-45556-4	HP-03-SS-24	Total/NA	Solid	8260B/CA_LUFT MS	124177
LCS 720-124177/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	124177
LCS 720-124177/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	124177
LCSD 720-124177/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	124177
LCSD 720-124177/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	124177
MB 720-124177/1-A	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	124177

Prep Batch: 124177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-2	HP-02-SS-33	Total/NA	Solid	5030B	
720-45556-3	HP-01-SS-28	Total/NA	Solid	5030B	
720-45556-4	HP-03-SS-24	Total/NA	Solid	5030B	
LCS 720-124177/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 720-124177/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 720-124177/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCSD 720-124177/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 720-124177/1-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 124293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-5	TRIP BLANK	Total/NA	Water	8260B	
LCS 720-124293/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-124293/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-124293/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 124475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-1	HP-02-SS-12	Total/NA	Solid	8260B/CA_LUFT MS	124485
LCS 720-124485/2-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	124485
LCS 720-124485/4-A	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	124485
LCSD 720-124485/3-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	124485

QC Association Summary

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

GC/MS VOA (Continued)

Analysis Batch: 124475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS D 720-124485/5-A	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT	124485
MB 720-124485/1-A	Method Blank	Total/NA	Solid	MS 8260B/CA_LUFT MS	124485

Prep Batch: 124485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-1	HP-02-SS-12	Total/NA	Solid	5030B	
LCS 720-124485/2-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS 720-124485/4-A	Lab Control Sample	Total/NA	Solid	5030B	
LCS D 720-124485/3-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
LCS D 720-124485/5-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 720-124485/1-A	Method Blank	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 123923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-1	HP-02-SS-12	Total/NA	Solid	3546	
720-45556-2	HP-02-SS-33	Total/NA	Solid	3546	
LCS 720-123923/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS D 720-123923/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-123923/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 124006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-1	HP-02-SS-12	Total/NA	Solid	3546	
720-45556-2	HP-02-SS-33	Total/NA	Solid	3546	
720-45556-3	HP-01-SS-28	Total/NA	Solid	3546	
720-45556-4	HP-03-SS-24	Total/NA	Solid	3546	
LCS 720-124006/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS D 720-124006/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-124006/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 124027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-1	HP-02-SS-12	Total/NA	Solid	8015B	124006
720-45556-2	HP-02-SS-33	Total/NA	Solid	8015B	124006
720-45556-3	HP-01-SS-28	Total/NA	Solid	8015B	124006
720-45556-4	HP-03-SS-24	Total/NA	Solid	8015B	124006
LCS 720-124006/2-A	Lab Control Sample	Total/NA	Solid	8015B	124006
LCS D 720-124006/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	124006
MB 720-124006/1-A	Method Blank	Total/NA	Solid	8015B	124006

Analysis Batch: 124040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-45556-1	HP-02-SS-12	Total/NA	Solid	8082	123923
720-45556-2	HP-02-SS-33	Total/NA	Solid	8082	123923
LCS 720-123923/2-A	Lab Control Sample	Total/NA	Solid	8082	123923
LCS D 720-123923/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	123923
MB 720-123923/1-A	Method Blank	Total/NA	Solid	8082	123923

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: HP-02-SS-12

Lab Sample ID: 720-45556-1

Date Collected: 10/24/12 10:39

Matrix: Solid

Date Received: 10/24/12 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			124485	11/01/12 20:00	LL	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	124475	11/01/12 23:14	AC	TAL SF
Total/NA	Prep	3546			124006	10/25/12 18:03	ND	TAL SF
Total/NA	Analysis	8015B		1	124027	10/26/12 14:59	JZ	TAL SF
Total/NA	Prep	3546			123923	10/25/12 18:01	AM	TAL SF
Total/NA	Analysis	8082		1	124040	10/27/12 08:10	RB	TAL SF

Client Sample ID: HP-02-SS-33

Lab Sample ID: 720-45556-2

Date Collected: 10/24/12 11:06

Matrix: Solid

Date Received: 10/24/12 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			124177	10/29/12 07:00	YB	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	124153	10/29/12 19:13	AC	TAL SF
Total/NA	Prep	3546			124006	10/25/12 18:03	ND	TAL SF
Total/NA	Analysis	8015B		1	124027	10/26/12 15:30	JZ	TAL SF
Total/NA	Prep	3546			123923	10/25/12 18:01	AM	TAL SF
Total/NA	Analysis	8082		1	124040	10/27/12 08:27	RB	TAL SF

Client Sample ID: HP-01-SS-28

Lab Sample ID: 720-45556-3

Date Collected: 10/24/12 13:35

Matrix: Solid

Date Received: 10/24/12 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			124177	10/29/12 07:00	YB	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	124153	10/29/12 19:44	AC	TAL SF
Total/NA	Prep	3546			124006	10/25/12 18:03	ND	TAL SF
Total/NA	Analysis	8015B		1	124027	10/26/12 16:01	JZ	TAL SF

Client Sample ID: HP-03-SS-24

Lab Sample ID: 720-45556-4

Date Collected: 10/24/12 14:23

Matrix: Solid

Date Received: 10/24/12 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			124177	10/29/12 07:00	YB	TAL SF
Total/NA	Analysis	8260B/CA_LUFTMS		1	124153	10/29/12 20:14	AC	TAL SF
Total/NA	Prep	3546			124006	10/25/12 18:03	ND	TAL SF
Total/NA	Analysis	8015B		1	124027	10/26/12 16:32	JZ	TAL SF

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-45556-5

Date Collected: 10/24/12 07:45

Matrix: Water

Date Received: 10/24/12 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	124139	10/29/12 14:38	AC	TAL SF
Total/NA	Analysis	8260B		1	124293	10/30/12 23:28	AC	TAL SF

Laboratory References:

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

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Certification Summary

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

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: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SF
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SF

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: AECOM, Inc.
Project/Site: Goodyear Livermore

TestAmerica Job ID: 720-45556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-45556-1	HP-02-SS-12	Solid	10/24/12 10:39	10/24/12 15:45
720-45556-2	HP-02-SS-33	Solid	10/24/12 11:06	10/24/12 15:45
720-45556-3	HP-01-SS-28	Solid	10/24/12 13:35	10/24/12 15:45
720-45556-4	HP-03-SS-24	Solid	10/24/12 14:23	10/24/12 15:45
720-45556-5	TRIP BLANK	Water	10/24/12 07:45	10/24/12 15:45

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720-45556

COC Page No.: 141820 of 1

Laboratory: Test America
1220 Quarry Lane
Pleasanton, CA 94566

Shipment Number:
Method of Shipment: hand delivery
Cooler Number:
Ship Date: 10/24/2012

Project Number: 60188757
Project Name: Goodyear Livermore
Project Contact: Vanessa Diep
1-714-689-7192

Client: AECOM

Sampler Signature: Ben Loebner

Sample	Field Sample ID	Sampling Date	Sampling Time	Matrix Type	Type/Size of Container	Preservation		Filtered	No. of Containers	Analyses Requested										Remarks				
						Temp.	Chemical																	
1	HP-02-SS-12	10/24/2012	1039	B	acetate liner	4°C	none	N	1	X	X	X												
2	HP-02-SS-33	10/24/2012	1106	B	acetate liner	4°C	none	N	1	X	X	X												
3	HP-01-SS-28	10/24/2012	1335	B	acetate liner	4°C	none	N	1	X	X	X												
4	HP-03-SS-24	10/24/2012	1423	B	acetate liner	4°C	none	N	1	X	X	X												
5	Trip Blank	10/24/2012	0745	W	40 ml VOA	4°C	HCl	N	2			X												

Relinquished By Signature: <u>Ben Loebner</u> Printed: <u>Ben Loebner</u> Company: <u>AECOM</u> Reason: <u>deliver to lab</u>	Date <u>10/24/2012</u> Time <u>1545</u>	Received By Signature: <u>J. Bullock</u> Printed: <u>T. Bullock</u> Company: <u>TASF</u>	Date <u>10/24/12</u> Time <u>1545</u>	Relinquished By Signature: _____ Printed: _____ Company: _____ Reason: _____	Date _____ Time _____	Received By Signature: _____ Printed: _____ Company: _____	Date _____ Time _____		
Comments: Please email results to: <u>vanessa.diep@aecom.com</u> <u>Standard Turn Around Time</u> <u>5.9°C</u>				Relinquished By Signature: _____ Printed: _____ Company: _____ Reason: _____				Received By Signature: _____ Printed: _____ Company: _____	

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 720-45556-1

Login Number: 45556

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

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.	False	
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	