



Stantec Consulting Services Inc.
555 Capitol Mall, Suite 650, Sacramento CA 95814-4583

December 23, 2014
File: 185850404

Mr. Robert Weston
Alameda County Environmental Health Department
1131 Harbor Bay Pkwy
Alameda, CA 94502

**Reference: Fuel System Removal Soil Sampling Report
7-Eleven Store Number 37634
506 International Boulevard
Oakland, California 94606**

Dear Mr. Weston,

Stantec Consulting Services Inc. (Stantec) has prepared this report on behalf of 7-Eleven, Inc. (7-Eleven) to submit analytical results for soil samples collected during fuel system removal activities at 7-Eleven Store Number 37634, located at 506 International Boulevard, Oakland, California (Figures 1 and 2).

INTRODUCTION

Stantec field personnel observed and documented the removal of three underground storage tanks (USTs), three fuel dispensers, and associated underground piping on September 1 through September 19, 2016. Soil samples were collected to assess the potential impact of petroleum fuel hydrocarbons to soil surrounding the former USTs and dispensers. Stantec performed the following tasks associated with this tank removal project:

- Prepared a site-specific Health and Safety Plan for sampling activities;
- Observed the removal and disposal of the UST rinsate, USTs, and product piping from the site;
- Collected soil samples surrounding three USTs and beneath three dispenser islands under the direction of a representative of the Alameda County Environmental Health Department, (ACEHD).
- Submitted soil samples for laboratory analysis;
- Prepared this summary report documenting soil sampling activities and soil sample analytical results.



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FUEL SYSTEM REMOVAL AND REPLACEMENT ACTIVITIES

Site-Specific Health and Safety Plan

Stantec prepared a site-specific *Health and Safety Plan* for sampling activities at the site, as required by the Occupational Safety and Health Administration (OSHA) Standard "*Hazardous Waste Operations and Emergency Response*" guidelines (29 CFR 1910.120). The document was reviewed and signed by Stantec personnel.

Test Pit Sampling for Waste Profiling

On September 1, 2016, Stantec collected soil samples from each of two test pits (TP1 and TP2) in order to profile solid waste for disposal after excavation of the new UST pits. A total of eight soil samples were collected from each test pit at depths of 3, 6, 10 and 13 feet below ground surface (bgs). Soil samples collected for analysis were retained in stainless-steel liners, labeled, and capped with Teflon® sheets and plastic end caps. The samples were then sealed in plastic baggies, placed on ice, and transported to TestAmerica Laboratories, Inc. (TestAmerica) located in Nashville, Tennessee, accompanied by the appropriate chain-of-custody (COC) documentation. Soil samples were analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, xylenes (collectively BTEX), methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), tertiary-butyl alcohol (TBA), and ethyl tertiary-butyl ether (ETBE) by Environmental Protection Agency (EPA) Method 8260B; and for total lead by EPA Method 6010B.

Installation of New USTs and Fueling System

On September 9 through 14, 2016 the locations of the new USTs and fueling system were excavated and prepared for installation of the new USTs. Soil from the excavation was stockpiled with soil from an earlier geotechnical investigation prior to off-site disposal. Soil was later transported to Potrero Landfill in Suisun City, California for disposal. On September 15, 2016, the new USTs were installed on-Site.

Dispenser and UST Excavation Soil Sample Collection

On September 8, 2016, three USTs, three fuel dispensers and associated piping were transported off-Site by Adams services for disposal. The same day, under the direction of an ACDEH representative, a Stantec field geologist collected a total of 15 confirmation soil samples in native soil within the excavation areas. Two samples were collected from beneath each of the three USTs at depths of 16 feet bgs, two samples were collected from beneath the product line, one sample was collected from beneath each of the three dispensers at 4.5 feet bgs, one sample was collected from beneath each of the three hoists at 10 feet bgs, and one sample was collected from beneath the canopy footing at 5 feet bgs. Two additional samples were collected from beneath hoist number 3 (H3) at 16 feet bgs on September 19, 2016 based on results from the September 8 samples.



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An excavator was used to retrieve native soil from beneath the former locations of fuel dispensers, and USTs. Soil samples were collected in clean, two-inch diameter by six-inch long stainless-steel sample liners that were driven into the native soil held in the excavator bucket. Soil sample locations are shown on Figure 2.

A photoionization detector (PID) calibrated to hexane was used to screen soil samples for evidence of petroleum hydrocarbons in soil. PID readings of soil samples collected from the bottom of the UST excavation ranged from 0.0 parts per million volume (ppmv) to 0.1 ppmv. PID screening of soil samples collected from beneath the dispenser islands ranged from 1.0 ppmv to 1136 ppmv. Field notes detailing the fuel system removal and soil sampling activities are included as Attachment A.

Soil samples collected for analysis were retained in stainless-steel liners, labeled, and capped with Teflon® sheets and plastic end caps. The samples were then sealed in plastic baggies, placed on ice, and transported to TestAmerica, accompanied by the appropriate COC documentation. Soil samples were analyzed for GRO, BTEX, MTBE, TAME, TBA, ETBE, naphthalene, 1,2-dibromoethane (EDB), and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B. The soil samples were also analyzed for total lead by EPA Method 6010B.

Soil samples collected from beneath the hoists were also analyzed for diesel range organics (DRO) and oil range organics (ORO) by EPA Method 8015B; polychlorinated biphenyls (PCBs) by EPA 8082; and cadmium, nickel, zinc, and chromium by EPA Method 6010B.

Waste Disposal

On September 6 through 8, 2016 three USTs, three dispenser islands and three hydraulic hoists, and product piping were excavated and removed for off-Site disposal by Evoqua Water Technologies. Adams Services, Inc. drained the hoists of any remaining oil and rinsed the tanks to prepare for transport. Approximately 300 gallons of rinsate water was transported by Adams Services to DeMenno/Kerdoon of Compton, California for treatment and disposal. Upon removal, no damage was visible to tanks and they were loaded onto trucks for disposal. Approximately 3,000 gallons of water from the tank basins was transported to Instrat in Rio Vista, California for disposal.

ANALYTICAL RESULTS

Soil Sample Analytical Results

Soil sample analytical results are presented in Tables 1 and 2 and on Figure 3. Petroleum hydrocarbons were reported above laboratory reporting limits primarily in samples collected from beneath the dispenser islands and beneath hoist number 3 (H3). Maximum hydrocarbon concentrations were reported in soil sample H3-10 (at 10 feet bgs), with detected concentrations of GRO (971 milligrams per kilogram [mg/kg]), DRO (804 mg/kg), ORO (1030 mg/kg), ethylbenzene (4.11 mg/kg), total xylenes (27.7 mg/kg), and naphthalene (7.98 mg/kg). Based on these results, the excavation under H3 was extended to 13.5 feet bgs and additional confirmation samples were collected (H3-13.5A and H3-13.5B). With the exception of background concentrations of



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metals, these samples from the over-excavation did not contain concentrations of petroleum hydrocarbons above laboratory reporting limits (LRLs), indicating that the vertical over-excavation removed the impacted soil from this location.

Benzene was detected above LRLs in one soil sample (D3-4.5 at 0.123 mg/kg) collected from beneath dispenser number 3 (D3). Toluene, TAME, TBA, EDB, DIPE, 1,2-DCA and ETBE were not detected above LRLs in any soil sample from any location. In addition to sample H3-10, ethylbenzene was detected above LRLs in soil samples D3-4.5 (4.05 mg/kg), D2-4.5 (0.333 mg/kg), xylenes were detected in soil samples D3-4.5 (3.50 mg/kg), and D2-4.5 (0.772 mg/kg), MTBE was detected in soil sample L2-4.0 (0.00430 mg/kg), and naphthalene was detected in soil samples L1-4.0 (0.0138 mg/kg), L2-4.0 (0.00891 mg/kg), D2-4.5 (1.41 mg/kg), D3-4.5 (5.09 mg/kg), and H2-10 (0.00629 mg/kg).

Petroleum hydrocarbon concentrations exceed San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Tier 1 Environmental Screening Levels (ESLs) in three (D2-4.5, D3-4.5, and H3-10) of the 14 confirmation soil samples collected on September 8, 2016. One of these locations (H3-10) was later over-excavated to 16 feet bgs and confirmation samples collected from this depth on September 19, 2016 revealed no detectable concentrations of petroleum hydrocarbons (Table 1).

Lead was detected in all soil samples with the maximum concentration of 17.4 mg/kg observed in soil sample H3-10 collected from beneath hoist number 3, which was later over-excavated. In addition to lead, nickel, zinc and chromium were detected in soils collected from beneath the hoists. Metal concentrations in soil did not exceed Tier 1 ESLs (SFRWQCB, February 2016) in any sample. PCBs were not detected above LRLs in any soil sample (Table 2). A copy of the certified analytical laboratory reports and COC documentation are presented as Attachment B.

SUMMARY AND CONCLUSIONS

On September 8, 2016 under the direction and supervision of an ACDEH representative, three USTs, dispenser islands and associated product piping were successfully removed from the site.

On September 8, 2016, 14 soil samples were collected from beneath former USTs, product lines and hoists. Petroleum hydrocarbons were reported in samples from beneath two of the dispensers (D2 and D3) and one hoist (H3). On September 19, 2016, additional samples were collected from beneath the over-excavation of H3 at 16 feet bgs to confirm that the impacted soil in this area was removed.

Residual concentrations of petroleum hydrocarbons and metals in soil do not exceed SFRWQCB Tier 1 ESLs, with the exception of GRO and naphthalene in D2-4.5, and GRO, benzene, ethylbenzene, xylenes, and naphthalene in D3-4.5.



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LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of 7-Eleven, Inc., for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Please contact Amanda Magee at (916) 669-5982 should you have any questions regarding this report.

Sincerely,

Stantec Consulting Services Inc.

Prepared by:

Corinne Ackerman

Corinne Ackerman, Ph.D.
Associate Scientist

Reviewed by:

Amanda Magee
Amanda Magee, PG
Senior Geologist

ATTACHMENTS

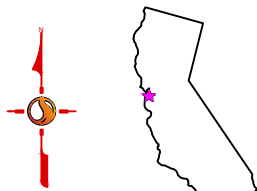
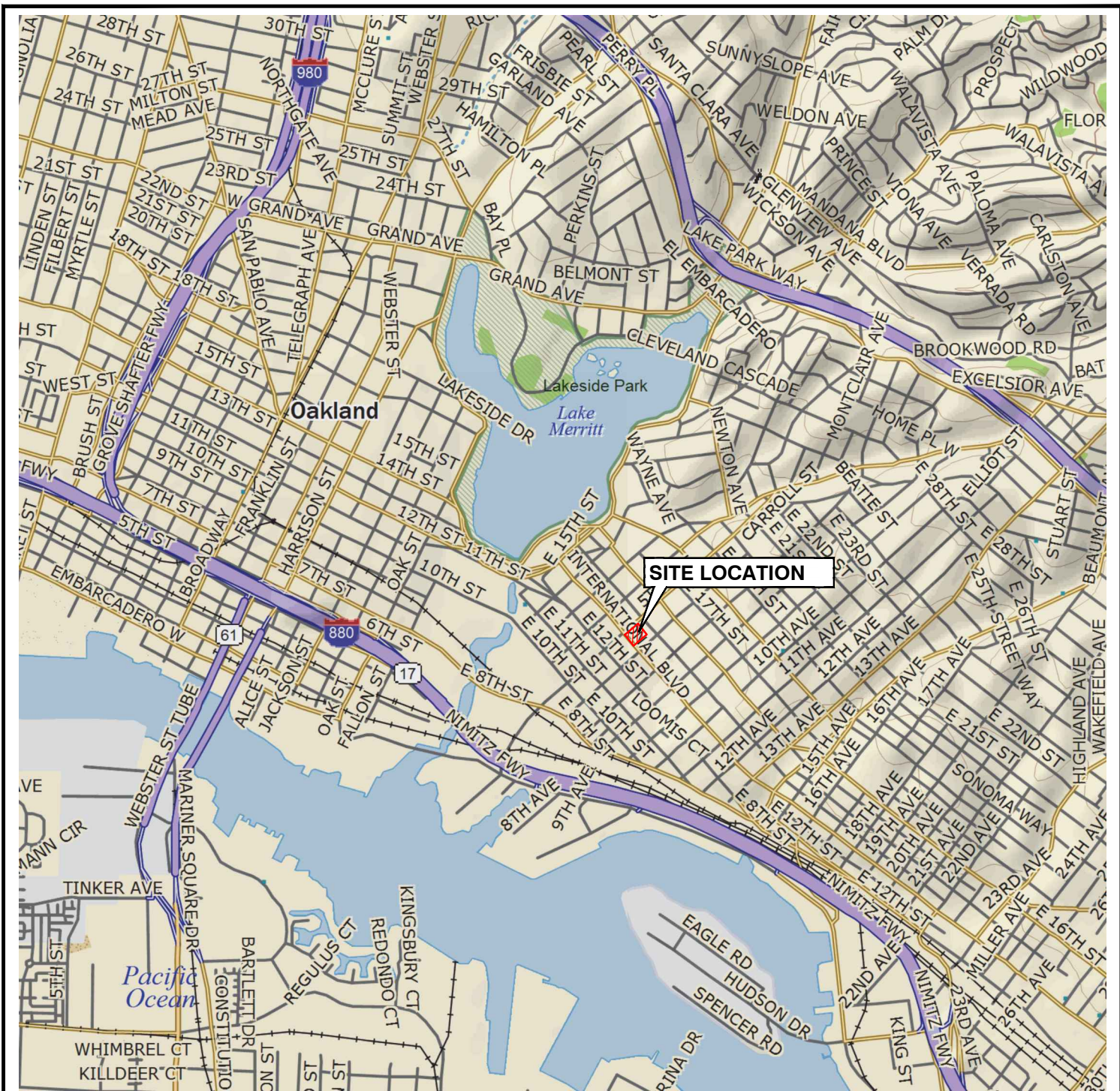
Figures

Tables

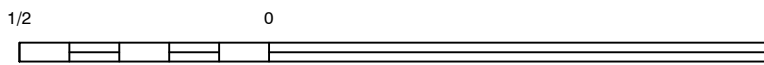
Attachment A – Field Notes

Attachment B – Certified Analytical Reports and Chain-of-Custody Documentation

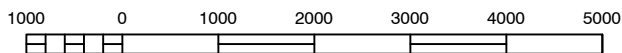
Figures



CALIFORNIA



SCALE (MILES)



SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, OAKLAND WEST, CALIFORNIA



FOR:



PROPOSED STORE # 37634
506 INTERNATIONAL BOULEVARD
OAKLAND, CALIFORNIA

SITE LOCATION MAP

FIGURE:

1

JOB NUMBER:
185850404.501.0521

DRAWN BY:
MDR/STA

CHECKED BY:
CEA

APPROVED BY:
ASM

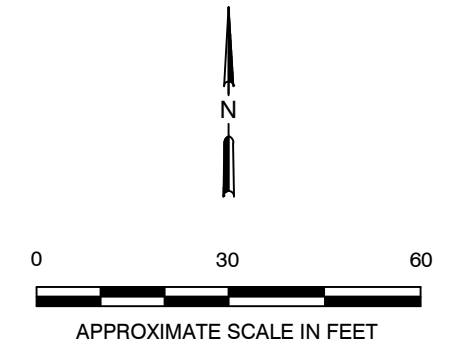
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12/12/16



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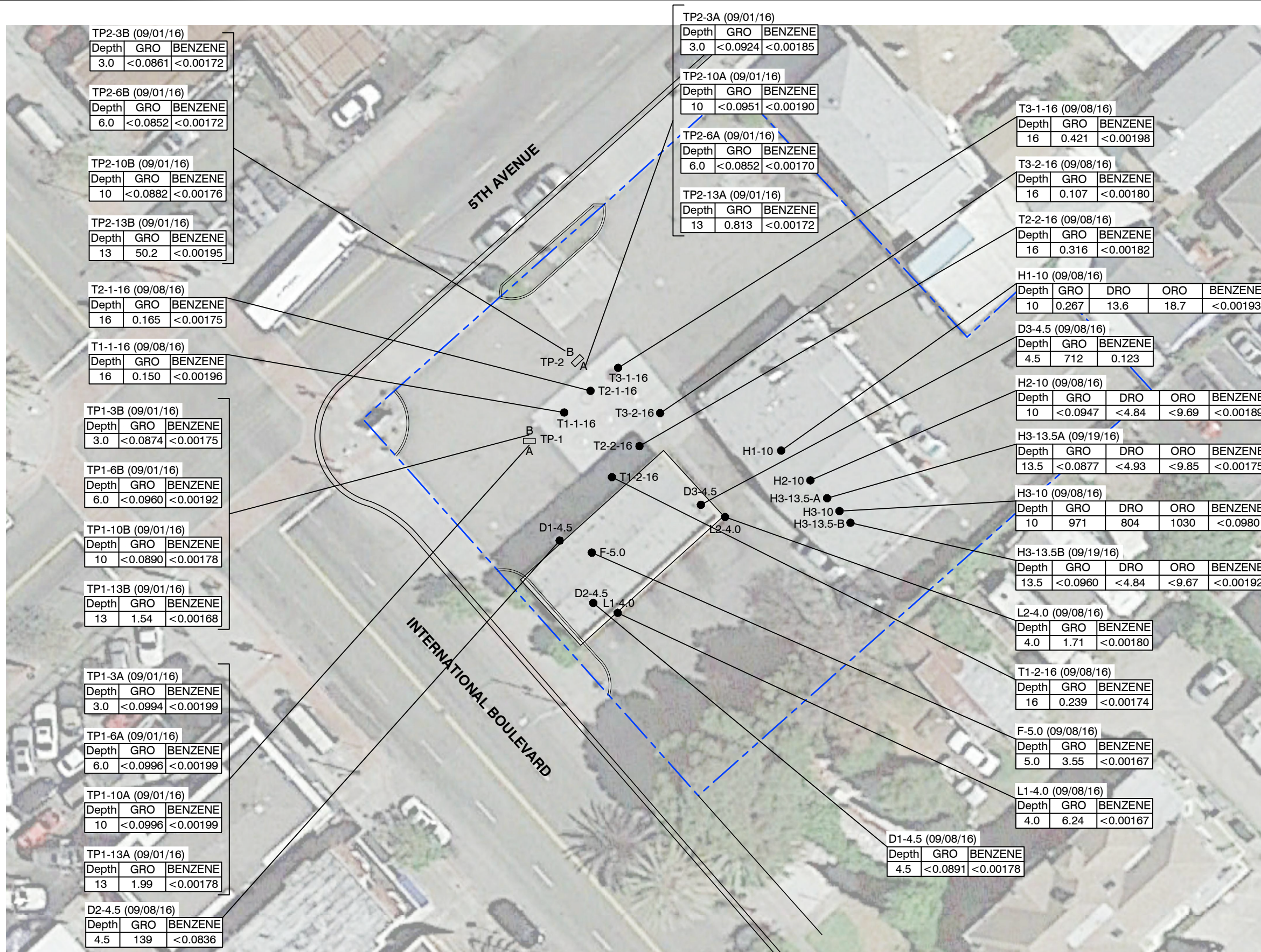
--- APPROXIMATE PROPERTY BOUNDARY

● SOIL SAMPLE LOCATION



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	FOR: PROPOSED STORE # 37634 506 INTERNATIONAL BOULEVARD OAKLAND, CALIFORNIA	SITE PLAN		FIGURE: 2
	JOB NUMBER: 185850404.501.0521 DRAWN BY: MDR/STA			



LEGEND:

--- APPROXIMATE PROPERTY BOUNDARY

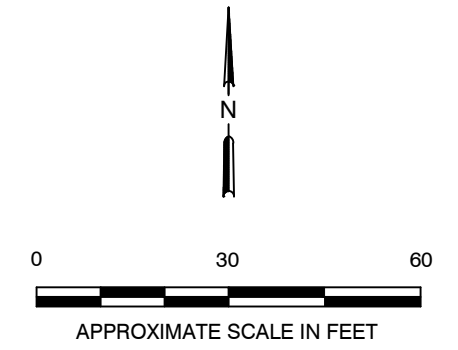
● SOIL SAMPLE LOCATION

GRO GASOLINE RANGE ORGANICS

DRO DIESEL RANGE ORGANICS

ORO HYDRAULIC OIL

RESULTS ARE IN mg/Kg (MILLIGRAMS PER KILOGRAM)



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		SOIL HYDROCARBON CONCENTRATION MAP		FIGURE: 3	
	PROPOSED STORE # 37634 506 INTERNATIONAL BOULEVARD OAKLAND, CALIFORNIA				
FOR:	JOB NUMBER: 185850404.501.0521	DRAWN BY: MDR/STA	CHECKED BY: CEA	APPROVED BY: ASM	DATE: 12/12/16

Tables

Table 1
Soil Analytical Data
7-Eleven Store #37634
506 International Boulevard
Oakland, California

Sample ID	Sample Date	Sample Depth (ft bgs)	DRO	ORO	GRO	Benzene	Toluene	Ethyl-benzene	Xylenes	MIBE	Naphthalene	TAME	TBA	EDB	DIPE	1,2-DCA	ETBE	Lead	Cadmium	Nickel	Zinc	Chromium	PID	Notes
			EPA 8015B (mg/kg)			EPA 8260B (mg/kg)													EPA 6010B (mg/kg)					
T1-1-16	09/08/16	16	--	--	0.150	<0.00196	<0.00196	<0.00196	<0.00587	<0.00196	<0.00489	<0.00196	<0.0489	<0.00196	<0.00196	<0.00196	<0.00489	2.66	--	--	--	--	0.1	
T1-2-16	09/08/16	16	--	--	0.239	<0.00174	<0.00174	<0.00174	<0.00521	<0.00174	<0.00434	<0.00174	<0.0434	<0.00174	<0.00174	<0.00174	<0.00434	5.29	--	--	--	--	0.0	
T2-1-16	09/08/16	16	--	--	0.165	<0.00175	<0.00175	<0.00175	<0.00524	<0.00175	<0.00436	<0.00175	<0.0436	<0.00175	<0.00175	<0.00175	<0.00436	9.01	--	--	--	--	0.0	
T2-2-16	09/08/16	16	--	--	0.316	<0.00182	<0.00182	<0.00182	<0.00546	<0.00182	<0.00455	<0.00182	<0.0455	<0.00182	<0.00182	<0.00182	<0.00455	7.87	--	--	--	--	0.0	
T3-1-16	09/08/16	16	--	--	0.421	<0.00198	<0.00198	<0.00198	<0.00594	<0.00198	<0.00495	<0.00198	<0.0495	<0.00198	<0.00198	<0.00198	<0.00495	3.90	--	--	--	--	0.0	
T3-2-16	09/08/16	16	--	--	0.107	<0.00180	<0.00180	<0.00180	<0.00539	0.00402	<0.00449	<0.00180	<0.0449	<0.00180	<0.00180	<0.00180	<0.00449	11.6	--	--	--	--	0.0	
L1-4.0	09/08/16	4.0	--	--	6.24	<0.00167	<0.00167	<0.00167	<0.00501	<0.00167	0.0138	<0.00167	<0.0417	<0.00167	<0.00167	<0.00167	<0.00417	6.57	--	--	--	--	114	
L2-4.0	09/08/16	4.0	--	--	1.71	<0.00180	<0.00180	<0.00180	<0.00539	0.00430	0.00891	<0.00180	<0.0449	<0.00180	<0.00180	<0.00180	<0.00449	6.84	--	--	--	--	8.8	
D1-4.5	09/08/16	4.5	--	--	<0.0891	<0.00178	<0.00178	<0.00178	<0.00535	<0.00178	<0.00446	<0.00178	<0.0446	<0.00178	<0.00178	<0.00178	<0.00446	6.90	--	--	--	--	1.0	
D2-4.5	09/08/16	4.5	--	--	139	<0.0836	<0.0836	0.333	0.772	<0.0836	1.41	<0.0836	<2.09	<0.0836*	<0.0836	<0.0836*	<0.209	6.53	--	--	--	--	72.8	a, b
D3-4.5	09/08/16	4.5	--	--	712	0.123	<0.0958	4.05	3.50	<0.0958	5.09	<0.0958	<2.39	<0.0958*	<0.0958	<0.0958*	<0.239	7.51	--	--	--	--	1136	a, b
H1-10	09/08/16	10	13.6	18.7	0.267	<0.00193	<0.00193	<0.00193	<0.00579	<0.00193	<0.00483	<0.00193	<0.0493	<0.00193	<0.00193	<0.00193	<0.00483	4.41	<0.994	31.1	16.7	23.7	0.0	a
H2-10	09/08/16	10	<4.84	<9.69	<0.0947	<0.00189	<0.00189	<0.00189	<0.00568	<0.00189	0.00629	<0.00189	<0.0473	<0.00189	<0.00189	<0.00189	<0.00473	2.31	<0.996	18.0	12.4	15.5	0.0	
H3-10	09/08/16	10	804	1030	971	<0.0980	<0.0980	4.11	27.7	<0.0980	7.98	<0.0980	<2.45	<0.0980*	<0.0980	<0.0980*	<0.245	17.4	<1.00	61.3	20.5	33.8	325	a, b
H3-13.5A	09/19/16	13.5	<4.93	<9.85	<0.0877	<0.00175	<0.00175	<0.00175	<0.00526	<0.00175	--	<0.00175	<0.0439	<0.00175	<0.00175	<0.00175	<0.00439	3.52	<0.990	22.8	16.6	27.6	0.0	
H3-13.5B	09/19/16	13.5	<4.84	<9.67	<0.0960	<0.00192	<0.00192	<0.00192	<0.00576	<0.00192	--	<0.00192	<0.0480	<0.00192	<0.00192	<0.00192	<0.00480	5.05	<0.994	36.5	24.7	24.2	0.0	
F-5.0	09/08/16	5.0	--	--	3.55	<0.00167	<0.00167	<0.00167	<0.00501	--	--	--	--	--	--	--	--	5.38	--	--	--	--	9.3	
TP1-3A	09/01/16	3.0	--	--	<0.0994	<0.00199	<0.00199	<0.00199	<0.00596	<0.00199	--	<0.00199	<0.0497	--	<0.00199	--	<0.00497	8.40	--	--	--	--	0.0	
TP1-3B	09/01/16	3.0	--	--	<0.0874	<0.00175	<0.00175	<0.00175	<0.00524	<0.00175	--	<0.00175	<0.0437	--	<0.00175	--	<0.00437	3.24	--	--	--	--	0.0	
TP1-6A	09/01/16	6.0	--	--	<0.0996	<0.00199	<0.00199	<0.00199	<0.00598	<0.00199	--	<0.00199	<0.0498	--	<0.00199	--	<0.00498	4.31	--	--	--	--	0.0	
TP1-6B	09/01/16	6.0	--	--	<0.0960	<0.00192	<0.00192	<0.00192	<0.00576	<0.00192	--	<0.00192	<0.0480	--	<0.00192	--	<0.00480	6.08	--	--	--	--	0.0	
TP1-10A	09/01/16	10	--	--	<0.0996	<0.00199	<0.00199	<0.00199	<0.00598	<0.00199	--	<0.00199	<0.04989	--	<0.00199	--	<0.004989	6.40	--	--	--	--	0.6	
TP1-10B	09/01/16	10	--	--	<0.0890	<0.00178	<0.00178	<0.00178	<0.00534	<0.00178	--	<0.00178	<0.0445	--	<0.00178	--	<0.00445	10.4	--	--	--	--	0.8	
TP1-13A	09/01/16	13	--	--	1.99	<0.00178	<0.00178	<0.00178	<0.00534	<0.00178	--	<0.00178	<0.0445	--	<0.00178	--	<0.00445	5.61	--	--	--	--	1.2	
TP1-13B	09/01/16	13	--	--	1.54	<0.00168	<0.00168	<0.00168	<0.00503	<0.00168	--	<0.00168	<0.0419	--	<0.00168	--	<0.00419	3.82	--	--	--	--	1.6	
TP2-3A	09/01/16	3.0	--	--	<0.0924	<0.00185	<0.00185	<0.00185	<0.00555	<0.00185	--	<0.00185	<0.0462	--	<0.00185	--	<0.00462	3.03	--	--	--	--	0.0	
TP2-3B	09/01/16	3.0	--	--	<0.0861	<0.00172	<0.00172	<0.00172	<0.00516	<0.00172	--	<0.00172	<0.0430	--	<0.00172	--	<0.00430	5.15	--	--	--	--	0.0	
TP2-6A	09/01/16	6.0	--	--	<0.0852	<0.00170	<0.00170	<0.00170	<0.00511	<0.00170	--	<0.00170	<0.0426	--	<0.00170	--	<0.00426	5.53	--	--	--	--	3.5	
TP2-6B	09/01/16	6.0	--	--	<0.0852	<0.00172	<0.00172	<0.00172	<0.00517	<0.00172	--	<0.00172	<0.0431	--	<0.00172	--	<0.00431	11.2	--	--	--	--	3.5	
TP2-10A	09/01/16	10	--	--	<0.0951	<0.00190	<0.00190	<0.00190	<0.00570	<0.00190	--	<0.00190	<0.0475	--	<0.00190	--	<0.00475	7.01	--	--	--	--	8.9	
TP2-10B	09/01/16	10	--	--	<0.0882	<0.00176	<0.00176	<0.00176	<0.00529	<0.00176	--	<0.00176	<0.0441	--	<0.00176	--	<0.00441	7.65	--	--	--	--	9.2	
TP2-13A	09/01/16	13	--	--	0.813	<0.00172	<0.00172	<0.00172	<0.00516	<0.00172	--	<0.00172	<0.0430	--	<0.00172	--	<0.00430	7.46	--	--	--	--	835	
TP2-13B	09/01/16	13	--	--	50.2	<0.00195	<0.00195	<0.00195	<0.00585	<0.00195	--	<0.00195	<0.0487	--	<0.00195	--	<0.00487	12.3	--	--	--	--	842	

CRWQCB - San Francisco Bay Region Tier 1 Environmental Screening Levels																								
--	--	--	230	5100	100	0.044	2.9	1.4	2.3	0.023	0.033	0.023	--	0.00033	--	0.0045	--	80.000	39	86	23.000			

Definitions:
 ft bgs = Feet below ground surface
 mg/kg = milligrams per kilogram
 < = Not detected above laboratory reporting limit
 CRWQCB = California Regional Water Quality Control Board
 ppmv = parts per million by volume

Notes:
 Highlighted cells indicate concentrations exceeding ELS
 * Relative percent difference of the laboratory control sample and the laboratory control sample duplicate exceeds control limits.
 a = Surrogate recovery was outside of control limits. Evidence of matrix interference was present; therefore, re-extraction and/or re-analysis was not performed.
 b = Samples were diluted due to the nature of the sample matrix. Elevated reporting limits were provided.

DRO = Diesel range organics
 GRO = Gasoline range organics
 ORO = Oil range organics
 MIBE = Methyl tertiary butyl ether
 TAME = Tertiary-amyl methyl ether

TBA = Tert-butyl alcohol (Tert-Butanol)
 EDB = 1,2 dibromoethane
 DIPE = Diisopropyl ether
 1,2 DCA = 1,2 dichloroethane
 ETBE = Ethyl tert-butyl ether

PID = Photoionization detector (field measurement)

TABLE 1A
UST Removal Soil Sample Analytical Results (continued)

7-Eleven Store #37634
 506 International Boulevard
 Oakland, California

Sample ID	Sample Date	Sample Depth (ft bgs)	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
			EPA 8082 (mg/kg)						
H1-10	09/08/16	10	<0.0323	<0.0323	<0.0323	<0.0323	<0.0323	<0.0323	<0.0323
H2-10	09/08/16	10	<0.0331	<0.0331	<0.0331	<0.0331	<0.0331	<0.0331	<0.0331
H3-10	09/08/16	10	<0.0323	<0.0323	<0.0323	<0.0323	<0.0323	<0.0323	<0.0323
H3-13.5A	09/19/16	13.5	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330	<0.0330
H3-13.5B	09/19/16	13.5	<0.0331	<0.0331	<0.0331	<0.0331	<0.0331	<0.0331	<0.0331

PCB = Polychlorinated biphenyl

ft bgs = Feet below ground surface

mg/kg = milligrams per kilogram

< = Not detected above laboratory reporting limit

Attachment A
Field Notes

9/1/16

- 8:30 - Arrived onsite, Musco crew is breaking concrete blocks and hauling them off in a dump truck
- Spoke with Brian Musco regarding today's scope of work
 - Walked site to address any site specific hazards that may have been previously unknown.
 - Called in to Pat McConnell to discuss sampling plan
- 10:00 - Begin sampling from 1st Test Pit (TP1)
- Will take samples from both sides of pit (A+B) at 3', 6', 10', 13' bgs
- 11:30 - Begin sampling from 2nd Test Pit (TP2)
- 12:30 - Samples taken, leave site to send samples to lab via FedEx

9/6/16

- 6:50 - Arrived onsite, reviewed HASP
- Fill out daily RMS-2 form
- 7:00 - Spoke to Brian Musco of Musco Excavators regarding schedule for today/this week.
- Today, tanks will be exposed, dispensers + lines exposed already
- 7:00 - Tank pit well removed during exposure of tanks
- Graffiti on site fencing painted over again
- 10:00 - Water present in the tank pit at approx. 13' bgs
- 11:20 - Tanks fully exposed, no apparent damage to tanks (underside not yet visible)
- 12:00 - Crew breaks for lunch
- 12:30 - Crew returns from lunch
- Site being prepped for Adams services to come and clean the tanks
- 1:45 - Work completed for the day, crew leaves site
- Leave site for hotel

9/7/16

- 6:50 - Arrived onsite, spoke with Walton crew regarding today's scope of work
- Adams Services should arrive this morning to clean the tanks and drain/clean the hoists
- 11:00 - Regulator Robert Weston with Alameda County Health Agency arrives onsite for a pre-tank pull site walk. Sampling locations were discussed as was requested analytical sampling methods
- 12:20 - Adams services arrives to begin cleaning tanks and hoists
- 1:30 - Leave site to pick up bailers at Envirotech

9/8/16

- 6:30 - Arrived onsite, reviewed HASP
 - Begin setup of sampling equipment + supplies
- 7:15 - Adams services onsite to remove any hydraulic oil from the lifts that may have settled ~~last~~ overnight
 - Approx. 300 gallons of rinsate was pumped from the tanks yesterday + will be transported to Demenna Kerdian in Compton, CA
- 8:05 - Begin excavation of H1 to 10', hoist measured 8' long
- 8:30 - Tanks inerted + cleared to remove
- 9:00 - T1 leaves site, prep to place T2 on flatbed
- 11:00 - Tanks removed from site
 - Sampling of Lines + Dispensers complete
 - Begin pumping water out of tank pit
 - * water will be taken to Inst rat in Rio Vista
- 1:15 - No water samples necessary as all water was pumped + samples taken below the tank pit were dry
 - All samples taken, leave site for FedEx
- 2:30 - Return to site, backfill of pea gravel complete
 - Layout of new tank pit being outlined, excavation of top 5 feet begins
- 3:30 - Leave site, excavation continues tomorrow

9/9/16

- 6:45 - Arrived onsite
- 7:00 - Shoring being installed in new tank pit
 - Currently new tank pit layout is excavated to 5' deep
- 10:30 - Crew member with Musco excavators had a swinging metal chain used for lifting shoring hit him in the chin causing a bloody lip with no other injury. Crew stopped work to assess severity and discuss root cause of incident. Light first aid ^{not needed} ~~needed~~ and crew member returned to work.
 - Walton crew member released the chain + Musco crew member was in the line of fire ~~the~~ of the chain. Safety reminders given to all involved parties + work resumed.
- 12:30 - Shoring completely installed, excavation of tank pit to continue on Monday
 - Leave site

9/12/16

6:30 - Arrived onsite, reviewed HASP

- Musco crew onsite, today's plan is to continue excavation in the tank pit to total depth ~13' bgs
- Excavation around outside of new tank pit underway to allow for fabric to be laid down and compaction to occur due to presence of pea gravel in the old tank pit.

12:00 - Significant odor + olive staining on soil in tank pit starting @ ~~10~~ 8' and ending @ 13' bgs

2:30 - Compaction complete, crew set to move/load soil offsite tomorrow
- Leave site.

9/13/16

6:30 - Arrived onsite, dump trucks staged around the area

- Musco crew setting up for loading
- Soil will be transported to Potrero Hills Landfill in Suisun City, CA

9:10 - 17 trucks loaded so far

- Soil from investigation earlier in the year being added to soil stockpile, (3 drums)

9:50 - Southern end of tank pit excavated to 17' bgs. Water is flowing into that area

10:50 - Robert Watson with Alameda County Environmental Health arrives onsite to observe tank pit soils + talk to Walton regarding fuel system installation.

3:30 - A total of 48 truckloads left site today, an additional 7 truckloads expected tomorrow
- Leave site

9/14/16

6:30 - Arrived onsite, reviewed HASP + RMS-2

- Dump trucks staged for final loads of material

7:05 - Begin loading trucks

- Gravel import ongoing as well for base of tank pit
- Fabric to be placed in tank pit prior to placement of gravel

10:30 - Final load of soil leaves site, a total of 53 loads were removed

12:00 - Crew breaks for lunch

12:30 - Import of base rock ongoing

3:30 - Leave site, pit prepped for tank installation

9/15/16

6:50 - Arrived onsite, spoke with Rick Walton regarding excavation of Hoist 3 + the following backfill + compaction

7:05 - Additional baserock being delivered for tank pit

10:30 - First tank set on concrete deadmen in the tank pit, using mobile crane lift

10:45 - 2nd tank arrives onsite

2:00 - Tanks in ground, backfill ongoing, ballasting tanks with water from the fire hydrant

3:40 - Leave site,

9/19/16

- 6:50 - Arrived onsite, reviewed HASP
- 7:20 - Begin excavation of area surrounding Hoist 3 to investigate limits of contamination
- Truck arrives onsite to deliver imported base rock and another truck onsite to haul soil
 - Soil will be disposed of at Susan City (Potter Hills Landfill)
- 8:30 - Excavation to 13.5' bgs complete, soil cleanup around 12.5' bgs.
- Samples taken from either end of excavation @ 13.5' bgs, PID 0.0 in both samples
- 9:15 - Leave site for lab in West Sacramento

Table 1
Fuel System Removal Soil & Water Sample Field Collection

7-Eleven #37634
 505 International Blvd.
 Oakland, California

Soil Sample Number	Sample Date	Sample Depth (feet bgs)	FID or PID Reading (ppm)	Soil Type	ANALYSES REQUESTED		
					TPHg/BTEX/MIBE 8260	LEAD	
						Total	
Tank Pit Samples		Label samples as: T1-1-13' (T=Tank 1= Tank #1 1= Sample # 13'= sample depth)					
T1-1-15'	01/01/03	15					EXAMPLE
T1-1-16	9/8/16 12:05	16	0.1				
T1-2-16	9/8/16 11:50	16	0.0				
T2-1-16	9/8/16 12:00	16	0.0				
T2-2-16	9/8/16 11:45	16	0.0				
T3-1-16	9/8/16 11:55	16	0.0				
T3-2-16	9/8/16 11:40	16	0.0				
Line Soil Samples		Label samples as: L1-6' (L=Line 1= line sample location 6'= sample depth)					
L1-3.5'	01/01/03	3.5					EXAMPLE
L1-4.0	9/8/16 10:20	4.0	114				
L2-4.0	9/8/16 10:10	4.0	8.8				
Dispenser Samples		Label samples as: D1-4.0' (D=Dispenser 1= Dispenser location #1 thru #3 4'= sample depth)					
D1-4.0'	01/01/03	4					EXAMPLE
D1-4.5	9/8/16 10:25	4.5	1.0				
D2-4.5	9/8/16 10:15	4.5	72.8				
D3-4.5	9/8/16 10:12	4.5	1136				
Other Samples		Label samples in a manner similar to system listed above including depth					
V1-4.0'	01/01/03	4					Vent Line EX.
H1-10	9/5/16 (8:10)	10	0.0	Sandy Clay			
H2-10	9/5/16 (8:15)	10	0.0	Sandy Clay			
H3-10	9/8/16 (8:20)	10	325	Sandy Clay			
F-5.0	9/8/16 12:00	5.0	9.3	Fracting Sample			
H3-13.5A	9/19/16 8:15	13.5	0.0	2 nd Host Excavation			
H3-13.5B	9/19/16 8:20	13.5	0.0	2 nd Host Excavation			

Table 1
Fuel System Removal Soil & Water Sample Field Collection

7-Eleven #37634
 505 International Blvd.
 Oakland, California

Soil Sample Number	Sample Date / Time	Sample Depth (feet bgs)	FID or PID Reading (ppm)	Soil Type	ANALYSES REQUESTED		
					TPHg/BTEX/MtBE 8260	LEAD	
						Total	
Tank Pit Samples		Label samples as: T1-1-13' (T=Tank 1= Tank #1 1= Sample # 13'= sample depth)					
T1-1-15'	01/01/03	15					EXAMPLE
TP1-3A	9/1/16 10:00	3	0				
TP1-3B	10:05	3	0				
TP1-6A	10:10	6	0				
TP1-6B	10:15	6	0				
TP1-10A	10:20	10	0.6				
TP1-10B	10:25	10	0.8				
TP1-13A	10:30	13	1.2				
TP1-13B	10:35	13	1.6				
Line Soil Samples		Label samples as: L1-6' (L=Line 1= line sample location 6'= sample depth)					
L1-3.5'	01/01/03	3.5					EXAMPLE
TP2-3A	9/1/16 11:30	3	0				
TP2-3B	11:35	3	0				
TP2-6A	11:40	6	3.5				
TP2-6B	11:45	6	3.5				
TP2-10A	11:50	10	8.9				
TP2-10B	11:55	10	9.2				
TP2-13A	12:00	13	83.5				
TP2-13B	12:05	13	84.2				
Dispenser Samples		Label samples as: D1-4.0' (D=Dispenser 1= Dispenser location #1 thru #3 4'= sample depth)					
D1-4.0'	01/01/03	4					EXAMPLE
Other Samples		Label samples in a manner similar to system listed above including depth					
V1-4.0'	01/01/03	4					Vent Line EX.

Attachment B
Certified Analytical Reports and
Chain-of-Custody Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-111033-1
Client Project/Site: 7-11 No. 37634 Tank Pull

For:
Stantec Consulting Corp.
3875 Atherton Road
Rocklin, California 95765-3716

Attn: Amanda Magee



Authorized for release by:
9/7/2016 4:07:46 PM

Heather Wagner, Project Manager I
(615)301-5763
heather.wagner@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111033-1	TP1-3A	Solid	09/01/16 10:00	09/02/16 09:40
490-111033-2	TP1-3B	Solid	09/01/16 10:05	09/02/16 09:40
490-111033-3	TP1-6A	Solid	09/01/16 10:10	09/02/16 09:40
490-111033-4	TP1-6B	Solid	09/01/16 10:15	09/02/16 09:40
490-111033-5	TP1-10A	Solid	09/01/16 10:20	09/02/16 09:40
490-111033-6	TP1-10B	Solid	09/01/16 10:25	09/02/16 09:40
490-111033-7	TP1-13A	Solid	09/01/16 10:30	09/02/16 09:40
490-111033-8	TP1-13B	Solid	09/01/16 10:35	09/02/16 09:40
490-111033-9	TP2-3A	Solid	09/01/16 11:30	09/02/16 09:40
490-111033-10	TP2-3B	Solid	09/01/16 11:35	09/02/16 09:40
490-111033-11	TP2-6A	Solid	09/01/16 11:40	09/02/16 09:40
490-111033-12	TP2-6B	Solid	09/01/16 11:45	09/02/16 09:40
490-111033-13	TP2-10A	Solid	09/01/16 11:50	09/02/16 09:40
490-111033-14	TP2-10B	Solid	09/01/16 11:55	09/02/16 09:40
490-111033-15	TP2-13A	Solid	09/01/16 12:00	09/02/16 09:40
490-111033-16	TP2-13B	Solid	09/01/16 12:05	09/02/16 09:40

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Job ID: 490-111033-1

Laboratory: TestAmerica Nashville

Narrative

**Job Narrative
490-111033-1**

Comments

No additional comments.

Receipt

The samples were received on 9/2/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Glossary

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

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-3A

Date Collected: 09/01/16 10:00

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Toluene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Ethylbenzene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Xylenes, Total	ND		0.00596		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Methyl tert-butyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Tert-amyl methyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
tert-Butyl alcohol (TBA)	ND		0.0497		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Diisopropyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
Ethyl tert-butyl ether	ND		0.00497		mg/Kg		09/04/16 16:31	09/06/16 15:06	1
GRO (C4-C12)	ND		0.0994		mg/Kg		09/04/16 16:31	09/06/16 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130	09/04/16 16:31	09/06/16 15:06	1
4-Bromofluorobenzene (Surr)	104		70 - 130	09/04/16 16:31	09/06/16 15:06	1
Dibromofluoromethane (Surr)	102		70 - 130	09/04/16 16:31	09/06/16 15:06	1
Toluene-d8 (Surr)	94		70 - 130	09/04/16 16:31	09/06/16 15:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.40		0.990		mg/Kg		09/05/16 13:53	09/06/16 12:11	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-3B

Date Collected: 09/01/16 10:05

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00175		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Toluene	ND		0.00175		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Ethylbenzene	ND		0.00175		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Xylenes, Total	ND		0.00524		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Methyl tert-butyl ether	ND		0.00175		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Tert-amyl methyl ether	ND		0.00175		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
tert-Butyl alcohol (TBA)	ND		0.0437		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Diisopropyl ether	ND		0.00175		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
Ethyl tert-butyl ether	ND		0.00437		mg/Kg		09/04/16 16:31	09/06/16 15:36	1
GRO (C4-C12)	ND		0.0874		mg/Kg		09/04/16 16:31	09/06/16 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 130	09/04/16 16:31	09/06/16 15:36	1
4-Bromofluorobenzene (Surr)	100		70 - 130	09/04/16 16:31	09/06/16 15:36	1
Dibromofluoromethane (Surr)	104		70 - 130	09/04/16 16:31	09/06/16 15:36	1
Toluene-d8 (Surr)	96		70 - 130	09/04/16 16:31	09/06/16 15:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.24		0.980		mg/Kg		09/05/16 13:53	09/06/16 12:36	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-6A

Date Collected: 09/01/16 10:10

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Toluene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Ethylbenzene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Xylenes, Total	ND		0.00598		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Methyl tert-butyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Tert-amyl methyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
tert-Butyl alcohol (TBA)	ND		0.0498		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Diisopropyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
Ethyl tert-butyl ether	ND		0.00498		mg/Kg		09/04/16 16:31	09/06/16 16:07	1
GRO (C4-C12)	ND		0.0996		mg/Kg		09/04/16 16:31	09/06/16 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130	09/04/16 16:31	09/06/16 16:07	1
4-Bromofluorobenzene (Surr)	102		70 - 130	09/04/16 16:31	09/06/16 16:07	1
Dibromofluoromethane (Surr)	103		70 - 130	09/04/16 16:31	09/06/16 16:07	1
Toluene-d8 (Surr)	95		70 - 130	09/04/16 16:31	09/06/16 16:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.31		1.01		mg/Kg		09/05/16 13:53	09/06/16 12:41	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-6B

Date Collected: 09/01/16 10:15

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00192		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Toluene	ND		0.00192		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Ethylbenzene	ND		0.00192		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Xylenes, Total	ND		0.00576		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Methyl tert-butyl ether	ND		0.00192		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Tert-amyl methyl ether	ND		0.00192		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
tert-Butyl alcohol (TBA)	ND		0.0480		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Diisopropyl ether	ND		0.00192		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
Ethyl tert-butyl ether	ND		0.00480		mg/Kg		09/04/16 16:31	09/06/16 16:37	1
GRO (C4-C12)	ND		0.0960		mg/Kg		09/04/16 16:31	09/06/16 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130	09/04/16 16:31	09/06/16 16:37	1
4-Bromofluorobenzene (Surr)	101		70 - 130	09/04/16 16:31	09/06/16 16:37	1
Dibromofluoromethane (Surr)	104		70 - 130	09/04/16 16:31	09/06/16 16:37	1
Toluene-d8 (Surr)	95		70 - 130	09/04/16 16:31	09/06/16 16:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.08		0.996		mg/Kg		09/05/16 13:53	09/06/16 12:57	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-10A

Lab Sample ID: 490-111033-5

Date Collected: 09/01/16 10:20

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Toluene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Ethylbenzene	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Xylenes, Total	ND		0.00598		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Methyl tert-butyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Tert-amyl methyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
tert-Butyl alcohol (TBA)	ND		0.0498		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Diisopropyl ether	ND		0.00199		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
Ethyl tert-butyl ether	ND		0.00498		mg/Kg		09/04/16 16:31	09/06/16 17:08	1
GRO (C4-C12)	ND		0.0996		mg/Kg		09/04/16 16:31	09/06/16 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130	09/04/16 16:31	09/06/16 17:08	1
4-Bromofluorobenzene (Surr)	100		70 - 130	09/04/16 16:31	09/06/16 17:08	1
Dibromofluoromethane (Surr)	103		70 - 130	09/04/16 16:31	09/06/16 17:08	1
Toluene-d8 (Surr)	95		70 - 130	09/04/16 16:31	09/06/16 17:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.40		0.994		mg/Kg		09/05/16 13:53	09/06/16 13:02	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-10B

Lab Sample ID: 490-111033-6

Date Collected: 09/01/16 10:25

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Toluene	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Ethylbenzene	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Xylenes, Total	ND		0.00534		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Methyl tert-butyl ether	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Tert-amyl methyl ether	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
tert-Butyl alcohol (TBA)	ND		0.0445		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Diisopropyl ether	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
Ethyl tert-butyl ether	ND		0.00445		mg/Kg		09/04/16 16:31	09/06/16 17:38	1
GRO (C4-C12)	ND		0.0890		mg/Kg		09/04/16 16:31	09/06/16 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130	09/04/16 16:31	09/06/16 17:38	1
4-Bromofluorobenzene (Surr)	101		70 - 130	09/04/16 16:31	09/06/16 17:38	1
Dibromofluoromethane (Surr)	103		70 - 130	09/04/16 16:31	09/06/16 17:38	1
Toluene-d8 (Surr)	95		70 - 130	09/04/16 16:31	09/06/16 17:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10.4		0.988		mg/Kg		09/05/16 13:53	09/06/16 13:07	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-13A

Lab Sample ID: 490-111033-7

Date Collected: 09/01/16 10:30

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Toluene	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Ethylbenzene	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Xylenes, Total	ND		0.00534		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Methyl tert-butyl ether	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Tert-amyl methyl ether	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
tert-Butyl alcohol (TBA)	ND		0.0445		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Diisopropyl ether	ND		0.00178		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
Ethyl tert-butyl ether	ND		0.00445		mg/Kg		09/04/16 16:31	09/06/16 18:09	1
GRO (C4-C12)	1.99		0.0890		mg/Kg		09/04/16 16:31	09/06/16 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 130	09/04/16 16:31	09/06/16 18:09	1
4-Bromofluorobenzene (Surr)	98		70 - 130	09/04/16 16:31	09/06/16 18:09	1
Dibromofluoromethane (Surr)	96		70 - 130	09/04/16 16:31	09/06/16 18:09	1
Toluene-d8 (Surr)	96		70 - 130	09/04/16 16:31	09/06/16 18:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.61		0.954		mg/Kg		09/05/16 13:53	09/06/16 13:12	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-13B

Lab Sample ID: 490-111033-8

Date Collected: 09/01/16 10:35

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00168		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Toluene	ND		0.00168		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Ethylbenzene	ND		0.00168		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Xylenes, Total	ND		0.00503		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Methyl tert-butyl ether	ND		0.00168		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Tert-amyl methyl ether	ND		0.00168		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
tert-Butyl alcohol (TBA)	ND		0.0419		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Diisopropyl ether	ND		0.00168		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
Ethyl tert-butyl ether	ND		0.00419		mg/Kg		09/04/16 16:31	09/06/16 18:39	1
GR0 (C4-C12)	1.54		0.0838		mg/Kg		09/04/16 16:31	09/06/16 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130	09/04/16 16:31	09/06/16 18:39	1
4-Bromofluorobenzene (Surr)	103		70 - 130	09/04/16 16:31	09/06/16 18:39	1
Dibromofluoromethane (Surr)	95		70 - 130	09/04/16 16:31	09/06/16 18:39	1
Toluene-d8 (Surr)	98		70 - 130	09/04/16 16:31	09/06/16 18:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.82		0.996		mg/Kg		09/05/16 13:53	09/06/16 13:17	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-3A

Date Collected: 09/01/16 11:30

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00185		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Toluene	ND		0.00185		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Ethylbenzene	ND		0.00185		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Xylenes, Total	ND		0.00555		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Methyl tert-butyl ether	ND		0.00185		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Tert-amyl methyl ether	ND		0.00185		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
tert-Butyl alcohol (TBA)	ND		0.0462		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Diisopropyl ether	ND		0.00185		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
Ethyl tert-butyl ether	ND		0.00462		mg/Kg		09/04/16 16:31	09/06/16 19:10	1
GRO (C4-C12)	ND		0.0924		mg/Kg		09/04/16 16:31	09/06/16 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130	09/04/16 16:31	09/06/16 19:10	1
4-Bromofluorobenzene (Surr)	101		70 - 130	09/04/16 16:31	09/06/16 19:10	1
Dibromofluoromethane (Surr)	105		70 - 130	09/04/16 16:31	09/06/16 19:10	1
Toluene-d8 (Surr)	94		70 - 130	09/04/16 16:31	09/06/16 19:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.03		0.952		mg/Kg		09/05/16 13:53	09/06/16 13:22	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-3B

Date Collected: 09/01/16 11:35

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00172		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Toluene	ND		0.00172		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Ethylbenzene	ND		0.00172		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Xylenes, Total	ND		0.00516		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Methyl tert-butyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Tert-amyl methyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
tert-Butyl alcohol (TBA)	ND		0.0430		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Diisopropyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
Ethyl tert-butyl ether	ND		0.00430		mg/Kg		09/04/16 16:31	09/06/16 19:40	1
GRO (C4-C12)	ND		0.0861		mg/Kg		09/04/16 16:31	09/06/16 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 130	09/04/16 16:31	09/06/16 19:40	1
4-Bromofluorobenzene (Surr)	104		70 - 130	09/04/16 16:31	09/06/16 19:40	1
Dibromofluoromethane (Surr)	104		70 - 130	09/04/16 16:31	09/06/16 19:40	1
Toluene-d8 (Surr)	95		70 - 130	09/04/16 16:31	09/06/16 19:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.15		0.967		mg/Kg		09/05/16 13:53	09/06/16 13:27	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-6A

Date Collected: 09/01/16 11:40

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00170		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Toluene	ND		0.00170		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Ethylbenzene	ND		0.00170		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Xylenes, Total	ND		0.00511		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Methyl tert-butyl ether	ND		0.00170		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Tert-amyl methyl ether	ND		0.00170		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
tert-Butyl alcohol (TBA)	ND		0.0426		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Diisopropyl ether	ND		0.00170		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
Ethyl tert-butyl ether	ND		0.00426		mg/Kg		09/04/16 16:31	09/06/16 20:11	1
GRO (C4-C12)	ND		0.0852		mg/Kg		09/04/16 16:31	09/06/16 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	09/04/16 16:31	09/06/16 20:11	1
4-Bromofluorobenzene (Surr)	99		70 - 130	09/04/16 16:31	09/06/16 20:11	1
Dibromofluoromethane (Surr)	102		70 - 130	09/04/16 16:31	09/06/16 20:11	1
Toluene-d8 (Surr)	93		70 - 130	09/04/16 16:31	09/06/16 20:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.53		1.01		mg/Kg		09/05/16 13:53	09/06/16 13:32	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-6B

Date Collected: 09/01/16 11:45

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Toluene	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Ethylbenzene	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Xylenes, Total	ND		0.00517		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Methyl tert-butyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Tert-amyl methyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
tert-Butyl alcohol (TBA)	ND		0.0431		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Diisopropyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
Ethyl tert-butyl ether	ND		0.00431		mg/Kg		09/04/16 16:31	09/07/16 03:49	1
GRO (C4-C12)	ND		0.0862		mg/Kg		09/04/16 16:31	09/07/16 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130	09/04/16 16:31	09/07/16 03:49	1
4-Bromofluorobenzene (Surr)	99		70 - 130	09/04/16 16:31	09/07/16 03:49	1
Dibromofluoromethane (Surr)	105		70 - 130	09/04/16 16:31	09/07/16 03:49	1
Toluene-d8 (Surr)	93		70 - 130	09/04/16 16:31	09/07/16 03:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.2		0.967		mg/Kg		09/05/16 13:53	09/06/16 13:37	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-10A

Lab Sample ID: 490-111033-13

Date Collected: 09/01/16 11:50

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00190		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Toluene	ND		0.00190		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Ethylbenzene	ND		0.00190		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Xylenes, Total	ND		0.00570		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Methyl tert-butyl ether	ND		0.00190		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Tert-amyl methyl ether	ND		0.00190		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
tert-Butyl alcohol (TBA)	ND		0.0475		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Diisopropyl ether	ND		0.00190		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
Ethyl tert-butyl ether	ND		0.00475		mg/Kg		09/04/16 16:31	09/07/16 04:19	1
GRO (C4-C12)	ND		0.0951		mg/Kg		09/04/16 16:31	09/07/16 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130	09/04/16 16:31	09/07/16 04:19	1
4-Bromofluorobenzene (Surr)	101		70 - 130	09/04/16 16:31	09/07/16 04:19	1
Dibromofluoromethane (Surr)	107		70 - 130	09/04/16 16:31	09/07/16 04:19	1
Toluene-d8 (Surr)	96		70 - 130	09/04/16 16:31	09/07/16 04:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.01		1.00		mg/Kg		09/05/16 13:53	09/06/16 13:42	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-10B

Lab Sample ID: 490-111033-14

Date Collected: 09/01/16 11:55

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00176		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Toluene	ND		0.00176		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Ethylbenzene	ND		0.00176		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Xylenes, Total	ND		0.00529		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Methyl tert-butyl ether	ND		0.00176		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Tert-amyl methyl ether	ND		0.00176		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
tert-Butyl alcohol (TBA)	ND		0.0441		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Diisopropyl ether	ND		0.00176		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
Ethyl tert-butyl ether	ND		0.00441		mg/Kg		09/04/16 16:31	09/07/16 04:50	1
GRO (C4-C12)	ND		0.0882		mg/Kg		09/04/16 16:31	09/07/16 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130	09/04/16 16:31	09/07/16 04:50	1
4-Bromofluorobenzene (Surr)	96		70 - 130	09/04/16 16:31	09/07/16 04:50	1
Dibromofluoromethane (Surr)	103		70 - 130	09/04/16 16:31	09/07/16 04:50	1
Toluene-d8 (Surr)	95		70 - 130	09/04/16 16:31	09/07/16 04:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.65		1.01		mg/Kg		09/05/16 13:53	09/06/16 13:58	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-13A

Lab Sample ID: 490-111033-15

Date Collected: 09/01/16 12:00

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Toluene	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Ethylbenzene	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Xylenes, Total	ND		0.00516		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Methyl tert-butyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Tert-amyl methyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
tert-Butyl alcohol (TBA)	ND		0.0430		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Diisopropyl ether	ND		0.00172		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
Ethyl tert-butyl ether	ND		0.00430		mg/Kg		09/04/16 16:31	09/07/16 05:20	1
GR0 (C4-C12)	0.813		0.0861		mg/Kg		09/04/16 16:31	09/07/16 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130	09/04/16 16:31	09/07/16 05:20	1
4-Bromofluorobenzene (Surr)	100		70 - 130	09/04/16 16:31	09/07/16 05:20	1
Dibromofluoromethane (Surr)	96		70 - 130	09/04/16 16:31	09/07/16 05:20	1
Toluene-d8 (Surr)	96		70 - 130	09/04/16 16:31	09/07/16 05:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.46		0.978		mg/Kg		09/05/16 13:53	09/06/16 14:03	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-13B

Lab Sample ID: 490-111033-16

Date Collected: 09/01/16 12:05

Matrix: Solid

Date Received: 09/02/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00195		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Toluene	ND		0.00195		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Ethylbenzene	ND		0.00195		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Xylenes, Total	ND		0.00585		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Methyl tert-butyl ether	ND		0.00195		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Tert-amyl methyl ether	ND		0.00195		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
tert-Butyl alcohol (TBA)	ND		0.0487		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Diisopropyl ether	ND		0.00195		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
Ethyl tert-butyl ether	ND		0.00487		mg/Kg		09/04/16 16:31	09/07/16 05:51	1
GRO (C4-C12)	50.2		18.0		mg/Kg		09/04/16 16:31	09/07/16 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	09/04/16 16:31	09/07/16 05:51	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	09/04/16 16:31	09/07/16 15:08	1
4-Bromofluorobenzene (Surr)	102		70 - 130	09/04/16 16:31	09/07/16 05:51	1
4-Bromofluorobenzene (Surr)	93		70 - 130	09/04/16 16:31	09/07/16 15:08	1
Dibromofluoromethane (Surr)	97		70 - 130	09/04/16 16:31	09/07/16 05:51	1
Dibromofluoromethane (Surr)	93		70 - 130	09/04/16 16:31	09/07/16 15:08	1
Toluene-d8 (Surr)	101		70 - 130	09/04/16 16:31	09/07/16 05:51	1
Toluene-d8 (Surr)	107		70 - 130	09/04/16 16:31	09/07/16 15:08	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12.3		0.994		mg/Kg		09/05/16 13:53	09/06/16 14:08	1

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

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

Lab Sample ID: 490-111033-1 MS

Matrix: Solid

Analysis Batch: 367916

Client Sample ID: TP1-3A

Prep Type: Total/NA

Prep Batch: 367787

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.0469	0.04323		mg/Kg		92	21 - 150
Toluene	ND		0.0469	0.04231		mg/Kg		90	17 - 150
Ethylbenzene	ND		0.0469	0.04355		mg/Kg		93	10 - 150
Xylenes, Total	ND		0.0938	0.08090		mg/Kg		86	10 - 150
Methyl tert-butyl ether	ND		0.0469	0.02845		mg/Kg		61	10 - 150
Tert-amyl methyl ether	ND		0.0469	0.02940		mg/Kg		63	10 - 150
tert-Butyl alcohol (TBA)	ND		0.469	0.2195		mg/Kg		47	10 - 150
Diisopropyl ether	ND		0.0469	0.03780		mg/Kg		81	27 - 144
Ethyl tert-butyl ether	ND		0.0469	0.03123		mg/Kg		67	10 - 150
MS MS									
Surrogate	%Recovery		Qualifier	Limits					
1,2-Dichloroethane-d4 (Surr)	87			70 - 130					
4-Bromofluorobenzene (Surr)	98			70 - 130					
Dibromofluoromethane (Surr)	98			70 - 130					
Toluene-d8 (Surr)	97			70 - 130					

Lab Sample ID: 490-111033-1 MSD

Matrix: Solid

Analysis Batch: 367916

Client Sample ID: TP1-3A

Prep Type: Total/NA

Prep Batch: 367787

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Benzene	ND		0.0479	0.04129		mg/Kg		86	21 - 150	5	50
Toluene	ND		0.0479	0.04242		mg/Kg		89	17 - 150	0	50
Ethylbenzene	ND		0.0479	0.04239		mg/Kg		89	10 - 150	3	50
Xylenes, Total	ND		0.0958	0.07967		mg/Kg		83	10 - 150	2	50
Methyl tert-butyl ether	ND		0.0479	0.02495		mg/Kg		52	10 - 150	13	50
Tert-amyl methyl ether	ND		0.0479	0.02739		mg/Kg		57	10 - 150	7	50
tert-Butyl alcohol (TBA)	ND		0.479	0.1558		mg/Kg		33	10 - 150	34	50
Diisopropyl ether	ND		0.0479	0.03431		mg/Kg		72	27 - 144	10	50
Ethyl tert-butyl ether	ND		0.0479	0.02968		mg/Kg		62	10 - 150	5	50
MSD MSD											
Surrogate	%Recovery		Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	85			70 - 130							
4-Bromofluorobenzene (Surr)	99			70 - 130							
Dibromofluoromethane (Surr)	99			70 - 130							
Toluene-d8 (Surr)	98			70 - 130							

Lab Sample ID: MB 490-367916/10

Matrix: Solid

Analysis Batch: 367916

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200		mg/Kg			09/06/16 14:35	1
Toluene	ND		0.00200		mg/Kg			09/06/16 14:35	1
Ethylbenzene	ND		0.00200		mg/Kg			09/06/16 14:35	1
Xylenes, Total	ND		0.00600		mg/Kg			09/06/16 14:35	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/06/16 14:35	1

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

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

Lab Sample ID: MB 490-367916/10
Matrix: Solid
Analysis Batch: 367916

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		0.00200		mg/Kg			09/06/16 14:35	1
tert-Butyl alcohol (TBA)	ND		0.0500		mg/Kg			09/06/16 14:35	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/06/16 14:35	1
Ethyl tert-butyl ether	ND		0.00500		mg/Kg			09/06/16 14:35	1
GRO (C4-C12)	ND		0.100		mg/Kg			09/06/16 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/16 14:35	1
4-Bromofluorobenzene (Surr)	102		70 - 130		09/06/16 14:35	1
Dibromofluoromethane (Surr)	103		70 - 130		09/06/16 14:35	1
Toluene-d8 (Surr)	96		70 - 130		09/06/16 14:35	1

Lab Sample ID: LCS 490-367916/4
Matrix: Solid
Analysis Batch: 367916

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	1.004		mg/Kg		100	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 490-367916/6
Matrix: Solid
Analysis Batch: 367916

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04868		mg/Kg		97	70 - 130
Toluene	0.0500	0.05029		mg/Kg		101	70 - 130
Ethylbenzene	0.0500	0.05058		mg/Kg		101	70 - 130
Xylenes, Total	0.100	0.09907		mg/Kg		99	70 - 130
Methyl tert-butyl ether	0.0500	0.04169		mg/Kg		83	54 - 145
Tert-amyl methyl ether	0.0500	0.04519		mg/Kg		90	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.3271		mg/Kg		65	10 - 150
Diisopropyl ether	0.0500	0.04752		mg/Kg		95	68 - 134
Ethyl tert-butyl ether	0.0500	0.04524		mg/Kg		90	19 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

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

Lab Sample ID: LCSD 490-367916/7

Matrix: Solid

Analysis Batch: 367916

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
Benzene	0.0500	0.05252		mg/Kg		105	70 - 130	8	37
Toluene	0.0500	0.05403		mg/Kg		108	70 - 130	7	40
Ethylbenzene	0.0500	0.05397		mg/Kg		108	70 - 130	6	38
Xylenes, Total	0.100	0.1054		mg/Kg		105	70 - 130	6	38
Methyl tert-butyl ether	0.0500	0.04549		mg/Kg		91	54 - 145	9	36
Tert-amyl methyl ether	0.0500	0.05049		mg/Kg		101	10 - 150	11	50
tert-Butyl alcohol (TBA)	0.500	0.3867		mg/Kg		77	10 - 150	17	50
Diisopropyl ether	0.0500	0.05097		mg/Kg		102	68 - 134	7	36
Ethyl tert-butyl ether	0.0500	0.04889		mg/Kg		98	19 - 150	8	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: MB 490-368119/10

Matrix: Solid

Analysis Batch: 368119

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			09/07/16 03:18	1
Toluene	ND		0.00200		mg/Kg			09/07/16 03:18	1
Ethylbenzene	ND		0.00200		mg/Kg			09/07/16 03:18	1
Xylenes, Total	ND		0.00600		mg/Kg			09/07/16 03:18	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/07/16 03:18	1
Tert-amyl methyl ether	ND		0.00200		mg/Kg			09/07/16 03:18	1
tert-Butyl alcohol (TBA)	ND		0.0500		mg/Kg			09/07/16 03:18	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/07/16 03:18	1
Ethyl tert-butyl ether	ND		0.00500		mg/Kg			09/07/16 03:18	1
GRO (C4-C12)	ND		0.100		mg/Kg			09/07/16 03:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		09/07/16 03:18	1
4-Bromofluorobenzene (Surr)	98		70 - 130		09/07/16 03:18	1
Dibromofluoromethane (Surr)	104		70 - 130		09/07/16 03:18	1
Toluene-d8 (Surr)	95		70 - 130		09/07/16 03:18	1

Lab Sample ID: LCS 490-368119/4

Matrix: Solid

Analysis Batch: 368119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	1.098		mg/Kg		110	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

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

Lab Sample ID: LCS 490-368119/4
Matrix: Solid
Analysis Batch: 368119

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: LCS 490-368119/6
Matrix: Solid
Analysis Batch: 368119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Benzene	0.0500	0.05698		mg/Kg		114	70 - 130	
Toluene	0.0500	0.05785		mg/Kg		116	70 - 130	
Ethylbenzene	0.0500	0.05846		mg/Kg		117	70 - 130	
Xylenes, Total	0.100	0.1122		mg/Kg		112	70 - 130	
Methyl tert-butyl ether	0.0500	0.04837		mg/Kg		97	54 - 145	
Tert-amyl methyl ether	0.0500	0.04918		mg/Kg		98	10 - 150	
tert-Butyl alcohol (TBA)	0.500	0.3770		mg/Kg		75	10 - 150	
Diisopropyl ether	0.0500	0.05347		mg/Kg		107	68 - 134	
Ethyl tert-butyl ether	0.0500	0.05063		mg/Kg		101	19 - 150	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-368119/7
Matrix: Solid
Analysis Batch: 368119

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
Benzene	0.0500	0.05843		mg/Kg		117	70 - 130	3	37	
Toluene	0.0500	0.05687		mg/Kg		114	70 - 130	2	40	
Ethylbenzene	0.0500	0.05733		mg/Kg		115	70 - 130	2	38	
Xylenes, Total	0.100	0.1090		mg/Kg		109	70 - 130	3	38	
Methyl tert-butyl ether	0.0500	0.04903		mg/Kg		98	54 - 145	1	36	
Tert-amyl methyl ether	0.0500	0.05042		mg/Kg		101	10 - 150	2	50	
tert-Butyl alcohol (TBA)	0.500	0.4174		mg/Kg		83	10 - 150	10	50	
Diisopropyl ether	0.0500	0.05611		mg/Kg		112	68 - 134	5	36	
Ethyl tert-butyl ether	0.0500	0.05193		mg/Kg		104	19 - 150	3	37	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	94		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

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

Lab Sample ID: MB 490-368248/9
Matrix: Solid
Analysis Batch: 368248

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100		mg/Kg			09/07/16 14:11	1
Toluene	ND		0.100		mg/Kg			09/07/16 14:11	1
Ethylbenzene	ND		0.100		mg/Kg			09/07/16 14:11	1
Xylenes, Total	ND		0.150		mg/Kg			09/07/16 14:11	1
Methyl tert-butyl ether	ND		0.100		mg/Kg			09/07/16 14:11	1
Tert-amyl methyl ether	ND		0.100		mg/Kg			09/07/16 14:11	1
tert-Butyl alcohol (TBA)	ND		2.50		mg/Kg			09/07/16 14:11	1
Diisopropyl ether	ND		0.100		mg/Kg			09/07/16 14:11	1
Ethyl tert-butyl ether	ND		0.250		mg/Kg			09/07/16 14:11	1
GRO (C4-C12)	ND		20.0		mg/Kg			09/07/16 14:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		09/07/16 14:11	1
4-Bromofluorobenzene (Surr)	95		70 - 130		09/07/16 14:11	1
Dibromofluoromethane (Surr)	94		70 - 130		09/07/16 14:11	1
Toluene-d8 (Surr)	110		70 - 130		09/07/16 14:11	1

Lab Sample ID: LCS 490-368248/4
Matrix: Solid
Analysis Batch: 368248

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	1.099		mg/Kg		110	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	111		70 - 130

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 490-367833/1-A
Matrix: Solid
Analysis Batch: 368124

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 367833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.00		mg/Kg		09/05/16 13:53	09/06/16 11:56	1

Lab Sample ID: LCS 490-367833/2-A
Matrix: Solid
Analysis Batch: 368124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 367833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	21.58		mg/Kg		108	80 - 120

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

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

Lab Sample ID: LCSD 490-367833/3-A
Matrix: Solid
Analysis Batch: 368124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 367833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	19.2	20.54		mg/Kg		107	80 - 120	5	20

Lab Sample ID: 490-111033-1 MS
Matrix: Solid
Analysis Batch: 368124

Client Sample ID: TP1-3A
Prep Type: Total/NA
Prep Batch: 367833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	8.40		19.6	27.21		mg/Kg		96	75 - 125		

Lab Sample ID: 490-111033-1 MSD
Matrix: Solid
Analysis Batch: 368124

Client Sample ID: TP1-3A
Prep Type: Total/NA
Prep Batch: 367833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	8.40		19.2	28.50		mg/Kg		105	75 - 125	5	20

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

GC/MS VOA

Prep Batch: 367786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-16	TP2-13B	Total/NA	Solid	5030B	

Prep Batch: 367787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-1	TP1-3A	Total/NA	Solid	5030B	
490-111033-2	TP1-3B	Total/NA	Solid	5030B	
490-111033-3	TP1-6A	Total/NA	Solid	5030B	
490-111033-4	TP1-6B	Total/NA	Solid	5030B	
490-111033-5	TP1-10A	Total/NA	Solid	5030B	
490-111033-6	TP1-10B	Total/NA	Solid	5030B	
490-111033-7	TP1-13A	Total/NA	Solid	5030B	
490-111033-8	TP1-13B	Total/NA	Solid	5030B	
490-111033-9	TP2-3A	Total/NA	Solid	5030B	
490-111033-10	TP2-3B	Total/NA	Solid	5030B	
490-111033-11	TP2-6A	Total/NA	Solid	5030B	
490-111033-12	TP2-6B	Total/NA	Solid	5030B	
490-111033-13	TP2-10A	Total/NA	Solid	5030B	
490-111033-14	TP2-10B	Total/NA	Solid	5030B	
490-111033-15	TP2-13A	Total/NA	Solid	5030B	
490-111033-16	TP2-13B	Total/NA	Solid	5030B	
490-111033-1 MS	TP1-3A	Total/NA	Solid	5030B	
490-111033-1 MSD	TP1-3A	Total/NA	Solid	5030B	

Analysis Batch: 367916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-1	TP1-3A	Total/NA	Solid	8260B	367787
490-111033-2	TP1-3B	Total/NA	Solid	8260B	367787
490-111033-3	TP1-6A	Total/NA	Solid	8260B	367787
490-111033-4	TP1-6B	Total/NA	Solid	8260B	367787
490-111033-5	TP1-10A	Total/NA	Solid	8260B	367787
490-111033-6	TP1-10B	Total/NA	Solid	8260B	367787
490-111033-7	TP1-13A	Total/NA	Solid	8260B	367787
490-111033-8	TP1-13B	Total/NA	Solid	8260B	367787
490-111033-9	TP2-3A	Total/NA	Solid	8260B	367787
490-111033-10	TP2-3B	Total/NA	Solid	8260B	367787
490-111033-11	TP2-6A	Total/NA	Solid	8260B	367787
MB 490-367916/10	Method Blank	Total/NA	Solid	8260B	
LCS 490-367916/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-367916/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-367916/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-111033-1 MS	TP1-3A	Total/NA	Solid	8260B	367787
490-111033-1 MSD	TP1-3A	Total/NA	Solid	8260B	367787

Analysis Batch: 368119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-12	TP2-6B	Total/NA	Solid	8260B	367787
490-111033-13	TP2-10A	Total/NA	Solid	8260B	367787
490-111033-14	TP2-10B	Total/NA	Solid	8260B	367787
490-111033-15	TP2-13A	Total/NA	Solid	8260B	367787
490-111033-16	TP2-13B	Total/NA	Solid	8260B	367787
MB 490-368119/10	Method Blank	Total/NA	Solid	8260B	

TestAmerica Nashville

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

GC/MS VOA (Continued)

Analysis Batch: 368119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-368119/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-368119/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-368119/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 368248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-16	TP2-13B	Total/NA	Solid	8260B	367786
MB 490-368248/9	Method Blank	Total/NA	Solid	8260B	
LCS 490-368248/4	Lab Control Sample	Total/NA	Solid	8260B	

Metals

Prep Batch: 367833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-1	TP1-3A	Total/NA	Solid	3051A	
490-111033-2	TP1-3B	Total/NA	Solid	3051A	
490-111033-3	TP1-6A	Total/NA	Solid	3051A	
490-111033-4	TP1-6B	Total/NA	Solid	3051A	
490-111033-5	TP1-10A	Total/NA	Solid	3051A	
490-111033-6	TP1-10B	Total/NA	Solid	3051A	
490-111033-7	TP1-13A	Total/NA	Solid	3051A	
490-111033-8	TP1-13B	Total/NA	Solid	3051A	
490-111033-9	TP2-3A	Total/NA	Solid	3051A	
490-111033-10	TP2-3B	Total/NA	Solid	3051A	
490-111033-11	TP2-6A	Total/NA	Solid	3051A	
490-111033-12	TP2-6B	Total/NA	Solid	3051A	
490-111033-13	TP2-10A	Total/NA	Solid	3051A	
490-111033-14	TP2-10B	Total/NA	Solid	3051A	
490-111033-15	TP2-13A	Total/NA	Solid	3051A	
490-111033-16	TP2-13B	Total/NA	Solid	3051A	
MB 490-367833/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-367833/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 490-367833/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
490-111033-1 MS	TP1-3A	Total/NA	Solid	3051A	
490-111033-1 MSD	TP1-3A	Total/NA	Solid	3051A	

Analysis Batch: 368124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-1	TP1-3A	Total/NA	Solid	6010B	367833
490-111033-2	TP1-3B	Total/NA	Solid	6010B	367833
490-111033-3	TP1-6A	Total/NA	Solid	6010B	367833
490-111033-4	TP1-6B	Total/NA	Solid	6010B	367833
490-111033-5	TP1-10A	Total/NA	Solid	6010B	367833
490-111033-6	TP1-10B	Total/NA	Solid	6010B	367833
490-111033-7	TP1-13A	Total/NA	Solid	6010B	367833
490-111033-8	TP1-13B	Total/NA	Solid	6010B	367833
490-111033-9	TP2-3A	Total/NA	Solid	6010B	367833
490-111033-10	TP2-3B	Total/NA	Solid	6010B	367833
490-111033-11	TP2-6A	Total/NA	Solid	6010B	367833
490-111033-12	TP2-6B	Total/NA	Solid	6010B	367833

TestAmerica Nashville

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Metals (Continued)

Analysis Batch: 368124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111033-13	TP2-10A	Total/NA	Solid	6010B	367833
490-111033-14	TP2-10B	Total/NA	Solid	6010B	367833
490-111033-15	TP2-13A	Total/NA	Solid	6010B	367833
490-111033-16	TP2-13B	Total/NA	Solid	6010B	367833
MB 490-367833/1-A	Method Blank	Total/NA	Solid	6010B	367833
LCS 490-367833/2-A	Lab Control Sample	Total/NA	Solid	6010B	367833
LCSD 490-367833/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	367833
490-111033-1 MS	TP1-3A	Total/NA	Solid	6010B	367833
490-111033-1 MSD	TP1-3A	Total/NA	Solid	6010B	367833

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-3A

Date Collected: 09/01/16 10:00

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 15:06	TSC	TAL NSH
Total/NA	Prep	3051A			0.505 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 12:11	RDF	TAL NSH

Client Sample ID: TP1-3B

Date Collected: 09/01/16 10:05

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.72 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 15:36	TSC	TAL NSH
Total/NA	Prep	3051A			0.510 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 12:36	RDF	TAL NSH

Client Sample ID: TP1-6A

Date Collected: 09/01/16 10:10

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 16:07	TSC	TAL NSH
Total/NA	Prep	3051A			0.496 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 12:41	RDF	TAL NSH

Client Sample ID: TP1-6B

Date Collected: 09/01/16 10:15

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.21 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 16:37	TSC	TAL NSH
Total/NA	Prep	3051A			0.502 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 12:57	RDF	TAL NSH

Client Sample ID: TP1-10A

Date Collected: 09/01/16 10:20

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 17:08	TSC	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP1-10A

Date Collected: 09/01/16 10:20

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1			368124	09/06/16 13:02	RDF	TAL NSH

Client Sample ID: TP1-10B

Date Collected: 09/01/16 10:25

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.62 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 17:38	TSC	TAL NSH
Total/NA	Prep	3051A			0.506 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:07	RDF	TAL NSH

Client Sample ID: TP1-13A

Date Collected: 09/01/16 10:30

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.62 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 18:09	TSC	TAL NSH
Total/NA	Prep	3051A			0.524 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:12	RDF	TAL NSH

Client Sample ID: TP1-13B

Date Collected: 09/01/16 10:35

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.97 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 18:39	TSC	TAL NSH
Total/NA	Prep	3051A			0.502 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:17	RDF	TAL NSH

Client Sample ID: TP2-3A

Date Collected: 09/01/16 11:30

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.41 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 19:10	TSC	TAL NSH
Total/NA	Prep	3051A			0.525 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:22	RDF	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-3B

Date Collected: 09/01/16 11:35

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.81 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 19:40	TSC	TAL NSH
Total/NA	Prep	3051A			0.517 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:27	RDF	TAL NSH

Client Sample ID: TP2-6A

Date Collected: 09/01/16 11:40

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.87 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	367916	09/06/16 20:11	TSC	TAL NSH
Total/NA	Prep	3051A			0.497 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:32	RDF	TAL NSH

Client Sample ID: TP2-6B

Date Collected: 09/01/16 11:45

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.80 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368119	09/07/16 03:49	TSC	TAL NSH
Total/NA	Prep	3051A			0.517 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:37	RDF	TAL NSH

Client Sample ID: TP2-10A

Date Collected: 09/01/16 11:50

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.26 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368119	09/07/16 04:19	TSC	TAL NSH
Total/NA	Prep	3051A			0.498 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 13:42	RDF	TAL NSH

Client Sample ID: TP2-10B

Date Collected: 09/01/16 11:55

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.67 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368119	09/07/16 04:50	TSC	TAL NSH
Total/NA	Prep	3051A			0.497 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Client Sample ID: TP2-10B

Date Collected: 09/01/16 11:55

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1			368124	09/06/16 13:58	RDF	TAL NSH

Client Sample ID: TP2-13A

Date Collected: 09/01/16 12:00

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.81 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368119	09/07/16 05:20	TSC	TAL NSH
Total/NA	Prep	3051A			0.511 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 14:03	RDF	TAL NSH

Client Sample ID: TP2-13B

Date Collected: 09/01/16 12:05

Date Received: 09/02/16 09:40

Lab Sample ID: 490-111033-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.55 g	5.0 mL	367786	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.2 mL	10 mL	368248	09/07/16 15:08	TSC	TAL NSH
Total/NA	Prep	5030B			5.13 g	5.0 mL	367787	09/04/16 16:31	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368119	09/07/16 05:51	TSC	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	367833	09/05/16 13:53	ADN	TAL NSH
Total/NA	Analysis	6010B		1			368124	09/06/16 14:08	RDF	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111033-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2938	10-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5030B	Solid	Diisopropyl ether

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

COOLER RECEIPT FORM



490-111033 Chain of Custody

Cooler Received/Opened On 9/2/2016 @ 09:40

Time Samples Removed From Cooler 1035 Time Samples Placed In Storage 1107 (2 Hour Window)

1. Tracking # 3725 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 14740456 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 4.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES NO NA

6. Were custody papers inside cooler? YES NO NA

I certify that I opened the cooler and answered questions 1-6 (initial) EM

7. Were custody seals on containers: YES NO and intact YES NO NA

Were these signed and dated correctly? YES NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO NA

12. Did all container labels and tags agree with custody papers? YES NO NA

13a. Were VOA vials received? YES NO NA

b. Was there any observable headspace present in any VOA vial? YES NO NA

14. Was there a Trip Blank in this cooler? YES NO NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO NA

16. Was residual chlorine present? YES NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ACE

17. Were custody papers properly filled out (ink, signed, etc)? YES NO NA *not relinquished*

18. Did you sign the custody papers in the appropriate place? YES NO NA

19. Were correct containers used for the analysis requested? YES NO NA

20. Was sufficient amount of sample sent in each container? YES NO NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ACE

I certify that I attached a label with the unique LIMS number to each container (initial) ACE

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...# 260331

Chain of Custody Record

Client Information Client Contact: Amanda Magee Phone: (916) 472-3985 Company: Stantec Consulting Corp. Address: 3875 Atherton Road City: Rocklin State, Zip: CA, 95765-3716 Phone: Email: amanda.magee@stantec.com Project Name: 37634 Tank Pull 7-11 No. 1 Site: 506 International Blvd, Oakland, CA		Sampler: Colin Ryan Lab PM: Wagner, Heather Phone: (916) 529-7804 E-Mail: heather.wagner@testamericainc.com		Carrier Tracking No(s): COC No: 490-54281-17611.1 Page: 1 of 2 Job #			
Due Date Requested: TAT Requested (days): 48 hrs PO #: Purchase Order Requested WO #:		Analysis Requested 8260B - (MOD) BTEX + OXY + 1,2DCA, EDB + GRO Lead EPA 6010 TPH, BTEX 8260B SOx's 8260B					
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		Total Number of Containers					
Sample Identification TPI-3A TPI-3B TPI-6A TPI-6B TPI-10A TPI-10B TPI-13A TPI-13B TP2-3A TP2-3B TP2-6A		Sample Date 9/11/16 9/11/16 9/11/16 9/11/16 9/11/16 9/11/16 9/11/16 9/11/16 9/11/16 9/11/16	Sample Time 10:00 10:05 10:10 10:15 10:20 10:25 10:30 10:35 11:30 11:35 11:40	Sample Type (C=Comp, G=grab) G G G G G G G G G G	Matrix (W=water, S=solid, O=wastelol, BT=Tissue, A=air) S S S S S S S S S S	Preservation Code Loc: 490 111033	Special Instructions/Note: Special Instructions/Note:
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Method of Shipment:					
Relinquished by:		Date/Time:					
Relinquished by:		Date/Time:					
Relinquished by:		Date/Time:					
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 4.0					



Chain of Custody Record

Client Information		Sampler: Colin Ryan		Lab PM: Wagner, Heather		Center Tracking No(s):		COC No: 490-54281-17611.1	
Client Contact: Amanda Magee		Phone: (916) 472-3985		E-Mail: heather.wagner@testamericainc.com		Page:		Page:	
Company: Stantec Consulting Corp.		Due Date Requested:		Analysis Requested		Job #:		Preservation Codes:	
Address: 3875 Atherton Road		TAT Requested (days): 48 hrs		Perform MS/MSD (Yes or No)		Total Number of Containers		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City: Rocklin		PO #: Purchase Order Requested		Field Filtered Sample (Yes or No)		Special Instructions/Note:		V - MCAA W - ph 4-5 Z - other (specify)	
State, Zip: CA, 95765-3716		WO #: 49008288		Matrix (W=water, S=solid, O=wastefl, BT=Tissue, A=Air)		Special Instructions/Note:		ate	
Project Name: 37634 Tank Pull		Project #: 49008288		Sample Date		Special Instructions/Note:		Special Instructions/Note:	
Site: 505 International Blvd., Oakland, CA		SSOW#:		Sample Time		Special Instructions/Note:		Special Instructions/Note:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Sample Matrix (W=water, S=solid, O=wastefl, BT=Tissue, A=Air)	
TP2-60B		9/11/16		11:45		G S		X	
TP2-10A		9/11/16		11:56		G S		X	
TP2-10B		9/11/16		11:55		G S		X	
TP2-13A		9/11/16		12:00		G S		X	
TP2-13B		9/11/16		12:05		G S		X	
TP2-13C		9/11/16		12:05		G S		X	
TP2-13D		9/11/16		12:05		G S		X	
TP2-13E		9/11/16		12:05		G S		X	
TP2-13F		9/11/16		12:05		G S		X	
TP2-13G		9/11/16		12:05		G S		X	
TP2-13H		9/11/16		12:05		G S		X	
TP2-13I		9/11/16		12:05		G S		X	
TP2-13J		9/11/16		12:05		G S		X	
TP2-13K		9/11/16		12:05		G S		X	
TP2-13L		9/11/16		12:05		G S		X	
TP2-13M		9/11/16		12:05		G S		X	
TP2-13N		9/11/16		12:05		G S		X	
TP2-13O		9/11/16		12:05		G S		X	
TP2-13P		9/11/16		12:05		G S		X	
TP2-13Q		9/11/16		12:05		G S		X	
TP2-13R		9/11/16		12:05		G S		X	
TP2-13S		9/11/16		12:05		G S		X	
TP2-13T		9/11/16		12:05		G S		X	
TP2-13U		9/11/16		12:05		G S		X	
TP2-13V		9/11/16		12:05		G S		X	
TP2-13W		9/11/16		12:05		G S		X	
TP2-13X		9/11/16		12:05		G S		X	
TP2-13Y		9/11/16		12:05		G S		X	
TP2-13Z		9/11/16		12:05		G S		X	
TP2-13AA		9/11/16		12:05		G S		X	
TP2-13AB		9/11/16		12:05		G S		X	
TP2-13AC		9/11/16		12:05		G S		X	
TP2-13AD		9/11/16		12:05		G S		X	
TP2-13AE		9/11/16		12:05		G S		X	
TP2-13AF		9/11/16		12:05		G S		X	
TP2-13AG		9/11/16		12:05		G S		X	
TP2-13AH		9/11/16		12:05		G S		X	
TP2-13AI		9/11/16		12:05		G S		X	
TP2-13AJ		9/11/16		12:05		G S		X	
TP2-13AK		9/11/16		12:05		G S		X	
TP2-13AL		9/11/16		12:05		G S		X	
TP2-13AM		9/11/16		12:05		G S		X	
TP2-13AN		9/11/16		12:05		G S		X	
TP2-13AO		9/11/16		12:05		G S		X	
TP2-13AP		9/11/16		12:05		G S		X	
TP2-13AQ		9/11/16		12:05		G S		X	
TP2-13AR		9/11/16		12:05		G S		X	
TP2-13AS		9/11/16		12:05		G S		X	
TP2-13AT		9/11/16		12:05		G S		X	
TP2-13AU		9/11/16		12:05		G S		X	
TP2-13AV		9/11/16		12:05		G S		X	
TP2-13AW		9/11/16		12:05		G S		X	
TP2-13AX		9/11/16		12:05		G S		X	
TP2-13AY		9/11/16		12:05		G S		X	
TP2-13AZ		9/11/16		12:05		G S		X	
TP2-13BA		9/11/16		12:05		G S		X	
TP2-13BB		9/11/16		12:05		G S		X	
TP2-13BC		9/11/16		12:05		G S		X	
TP2-13BD		9/11/16		12:05		G S		X	
TP2-13BE		9/11/16		12:05		G S		X	
TP2-13BF		9/11/16		12:05		G S		X	
TP2-13BG		9/11/16		12:05		G S		X	
TP2-13BH		9/11/16		12:05		G S		X	
TP2-13BI		9/11/16		12:05		G S		X	
TP2-13BJ		9/11/16		12:05		G S		X	
TP2-13BK		9/11/16		12:05		G S		X	
TP2-13BL		9/11/16		12:05		G S		X	
TP2-13BM		9/11/16		12:05		G S		X	
TP2-13BN		9/11/16		12:05		G S		X	
TP2-13BO		9/11/16		12:05		G S		X	
TP2-13BP		9/11/16		12:05		G S		X	
TP2-13BQ		9/11/16		12:05		G S		X	
TP2-13BR		9/11/16		12:05		G S		X	
TP2-13BS		9/11/16		12:05		G S		X	
TP2-13BT		9/11/16		12:05		G S		X	
TP2-13BU		9/11/16		12:05		G S		X	
TP2-13BV		9/11/16		12:05		G S		X	
TP2-13BW		9/11/16		12:05		G S		X	
TP2-13BX		9/11/16		12:05		G S		X	
TP2-13BY		9/11/16		12:05		G S		X	
TP2-13BZ		9/11/16		12:05		G S		X	
TP2-13CA		9/11/16		12:05		G S		X	
TP2-13CB		9/11/16		12:05		G S		X	
TP2-13CC		9/11/16		12:05		G S		X	
TP2-13CD		9/11/16		12:05		G S		X	
TP2-13CE		9/11/16		12:05		G S		X	
TP2-13CF		9/11/16		12:05		G S		X	
TP2-13CG		9/11/16		12:05		G S		X	
TP2-13CH		9/11/16		12:05		G S		X	
TP2-13CI		9/11/16		12:05		G S		X	
TP2-13CJ		9/11/16		12:05		G S		X	
TP2-13CK		9/11/16		12:05		G S		X	
TP2-13CL		9/11/16		12:05		G S		X	
TP2-13CM		9/11/16		12:05		G S		X	
TP2-13CN		9/11/16		12:05		G S		X	
TP2-13CO		9/11/16		12:05		G S		X	
TP2-13CP		9/11/16		12:05		G S		X	
TP2-13CQ		9/11/16		12:05		G S		X	
TP2-13CR		9/11/16		12:05		G S		X	
TP2-13CS		9/11/16		12:05		G S		X	
TP2-13CT		9/11/16		12:05		G S		X	
TP2-13CU		9/11/16		12:05		G S		X	
TP2-13CV		9/11/16		12:05		G S		X	
TP2-13CW		9/11/16		12:05		G S		X	
TP2-13CX		9/11/16		12:05		G S		X	
TP2-13CY		9/11/16		12:05		G S		X	
TP2-13CZ		9/11/16		12:05		G S		X	
TP2-13DA		9/11/16		12:05		G S		X	
TP2-13DB		9/11/16		12:05		G S		X	
TP2-13DC		9/11/16		12:05		G S		X	
TP2-13DD		9/11/16		12:05		G S		X	
TP2-13DE		9/11/16		12:05		G S		X	
TP2-13DF		9/11/16		12:05		G S		X	
TP2-13DG		9/11/16		12:05		G S		X	
TP2-13DH		9/11/16		12:05		G S		X	
TP2-13DI		9/11/16		12:05		G S		X	
TP2-13DJ		9/11/16		12:05		G S		X	
TP2-13DK		9/11/16		12:05		G S		X	
TP2-13DL		9/11/16		12:05		G S		X	
TP2-13DM		9/11/16		12:05		G S		X	
TP2-13DN		9/11/16		12:05		G S		X	
TP2-13DO		9/11/16		12:05		G S		X	
TP2-13DP		9/11/16		12:05		G S		X	
TP2-13DQ		9/11/16		12:05		G S		X	
TP2-13DR		9/11/16		12:05		G S		X	
TP2-13DS		9/11/16		12:05		G S		X	
TP2-13DT		9/11/16		12:05		G S		X	
TP2-13DU		9/11/16		12:05		G S		X	
TP2-13DV		9/11/16		12:05		G S		X	
TP2-13DW		9/11/16		12:05		G S		X	
TP2-13DX		9/11/16		12:05		G S		X	
TP2-13DY		9/11/16		12:05		G S		X	
TP2-13DZ		9/11/16		12:05		G S		X	
TP2-13EA		9/11/16		12:05		G S		X	
TP2-13EB		9/11/16		12:05		G S		X	
TP2-13EC		9/11/16		12:05		G S		X	
TP2-13ED		9/11/16		12:05		G S		X	
TP2-13EE		9/11/16		12:05		G S		X	
TP2-13EF		9/11/16		12:05		G S		X	
TP2-13EG		9/11/16		12:05		G S		X	
TP2-13EH		9/11/16		12:05		G S		X	
TP2-13EI		9/11/16		12:05		G S		X	
TP2-13EJ		9/11/16		12:05		G S		X	
TP2-13EK		9/11/16		12:05		G S		X	
TP2-13EL		9/11/16		12:05		G S		X	
TP2-13EM		9/11/16		12:05		G S		X	
TP2-13EN		9/11/16		12:05		G S		X	
TP2-13EO		9/11/16		12:05		G S		X	
TP2-13EP		9/11/16		12:05		G S		X	
TP2-13EQ		9/11/16		12:05		G S		X	
TP2-13ER		9/11/16		12:05		G S		X	
TP2-13ES		9/11/16		12:05		G S		X	
TP2-13ET		9/11/16		12:05		G S			

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 490-111033-1

Login Number: 111033

List Source: TestAmerica Nashville

List Number: 1

Creator: Stvartak, Anthony Q

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-111379-1
TestAmerica SDG: 506 International Blvd., Oakland, CA
Client Project/Site: 7-11 No. 37634 Tank Pull

For:
Stantec Consulting Corp.
3875 Atherton Road
Rocklin, California 95765-3716

Attn: Amanda Magee



Authorized for release by:
9/9/2016 5:47:35 PM

Heather Wagner, Project Manager I
(615)301-5763
heather.wagner@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111379-1	T1-1-16	Solid	09/08/16 12:05	09/09/16 09:35
490-111379-3	T2-1-16	Solid	09/08/16 12:06	09/09/16 09:35
490-111379-5	T3-1-16	Solid	09/08/16 11:55	09/09/16 09:35

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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

Job ID: 490-111379-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-111379-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2016 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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- 13

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T1-1-16

Lab Sample ID: 490-111379-1

Date Collected: 09/08/16 12:05

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Toluene	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Ethylbenzene	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Xylenes, Total	ND		0.00587		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Methyl tert-butyl ether	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Naphthalene	ND		0.00489		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Tert-amyl methyl ether	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
tert-Butyl alcohol (TBA)	ND		0.0489		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
1,2-Dibromoethane (EDB)	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Diisopropyl ether	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
1,2-Dichloroethane	ND		0.00196		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
Ethyl tert-butyl ether	ND		0.00489		mg/Kg		09/09/16 11:30	09/09/16 15:11	1
GRO (C4-C12)	0.150		0.0978		mg/Kg		09/09/16 11:30	09/09/16 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130	09/09/16 11:30	09/09/16 15:11	1
4-Bromofluorobenzene (Surr)	110		70 - 130	09/09/16 11:30	09/09/16 15:11	1
Dibromofluoromethane (Surr)	81		70 - 130	09/09/16 11:30	09/09/16 15:11	1
Toluene-d8 (Surr)	107		70 - 130	09/09/16 11:30	09/09/16 15:11	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.66		0.958		mg/Kg		09/09/16 13:02	09/09/16 15:42	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T2-1-16

Lab Sample ID: 490-111379-3

Date Collected: 09/08/16 12:06

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Toluene	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Ethylbenzene	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Xylenes, Total	ND		0.00524		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Methyl tert-butyl ether	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Naphthalene	ND		0.00436		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Tert-amyl methyl ether	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
tert-Butyl alcohol (TBA)	ND		0.0436		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
1,2-Dibromoethane (EDB)	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Diisopropyl ether	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
1,2-Dichloroethane	ND		0.00175		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
Ethyl tert-butyl ether	ND		0.00436		mg/Kg		09/09/16 11:30	09/09/16 15:39	1
GRO (C4-C12)	0.165		0.0873		mg/Kg		09/09/16 11:30	09/09/16 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130	09/09/16 11:30	09/09/16 15:39	1
4-Bromofluorobenzene (Surr)	108		70 - 130	09/09/16 11:30	09/09/16 15:39	1
Dibromofluoromethane (Surr)	81		70 - 130	09/09/16 11:30	09/09/16 15:39	1
Toluene-d8 (Surr)	104		70 - 130	09/09/16 11:30	09/09/16 15:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.01		0.992		mg/Kg		09/09/16 13:02	09/09/16 16:07	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T3-1-16

Lab Sample ID: 490-111379-5

Date Collected: 09/08/16 11:55

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Toluene	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Ethylbenzene	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Xylenes, Total	ND		0.00594		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Methyl tert-butyl ether	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Naphthalene	ND		0.00495		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Tert-amyl methyl ether	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
tert-Butyl alcohol (TBA)	ND		0.0495		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
1,2-Dibromoethane (EDB)	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Diisopropyl ether	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
1,2-Dichloroethane	ND		0.00198		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
Ethyl tert-butyl ether	ND		0.00495		mg/Kg		09/09/16 11:30	09/09/16 16:06	1
GRO (C4-C12)	0.421		0.0990		mg/Kg		09/09/16 11:30	09/09/16 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 130	09/09/16 11:30	09/09/16 16:06	1
4-Bromofluorobenzene (Surr)	107		70 - 130	09/09/16 11:30	09/09/16 16:06	1
Dibromofluoromethane (Surr)	82		70 - 130	09/09/16 11:30	09/09/16 16:06	1
Toluene-d8 (Surr)	108		70 - 130	09/09/16 11:30	09/09/16 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.90		0.975		mg/Kg		09/09/16 13:02	09/09/16 16:12	1

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: MB 490-368862/10

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			09/09/16 14:17	1
Toluene	ND		0.00200		mg/Kg			09/09/16 14:17	1
Ethylbenzene	ND		0.00200		mg/Kg			09/09/16 14:17	1
Xylenes, Total	ND		0.00600		mg/Kg			09/09/16 14:17	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/09/16 14:17	1
Naphthalene	ND		0.00500		mg/Kg			09/09/16 14:17	1
Tert-amyl methyl ether	ND		0.00200		mg/Kg			09/09/16 14:17	1
tert-Butyl alcohol (TBA)	ND		0.0500		mg/Kg			09/09/16 14:17	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			09/09/16 14:17	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/09/16 14:17	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/09/16 14:17	1
Ethyl tert-butyl ether	ND		0.00500		mg/Kg			09/09/16 14:17	1
GRO (C4-C12)	ND		0.100		mg/Kg			09/09/16 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		09/09/16 14:17	1
4-Bromofluorobenzene (Surr)	113		70 - 130		09/09/16 14:17	1
Dibromofluoromethane (Surr)	77		70 - 130		09/09/16 14:17	1
Toluene-d8 (Surr)	104		70 - 130		09/09/16 14:17	1

Lab Sample ID: LCS 490-368862/4

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05416		mg/Kg		108	70 - 130
Toluene	0.0500	0.05670		mg/Kg		113	70 - 130
Ethylbenzene	0.0500	0.04779		mg/Kg		96	70 - 130
Xylenes, Total	0.150	0.1338		mg/Kg		89	70 - 130
Methyl tert-butyl ether	0.0500	0.06058		mg/Kg		121	54 - 145
Naphthalene	0.0500	0.05959		mg/Kg		119	55 - 149
Tert-amyl methyl ether	0.0500	0.05150		mg/Kg		103	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.5669		mg/Kg		113	10 - 150
1,2-Dibromoethane (EDB)	0.0500	0.05074		mg/Kg		101	69 - 130
Diisopropyl ether	0.0500	0.05126		mg/Kg		103	68 - 134
1,2-Dichloroethane	0.0500	0.04390		mg/Kg		88	65 - 134
Ethyl tert-butyl ether	0.0500	0.05271		mg/Kg		105	19 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	105		70 - 130

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: LCS 490-368862/8

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	1.154		mg/Kg		115	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-368862/5

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.0500	0.05406		mg/Kg		108	70 - 130	0	37
Toluene	0.0500	0.05727		mg/Kg		115	70 - 130	1	40
Ethylbenzene	0.0500	0.04869		mg/Kg		97	70 - 130	2	38
Xylenes, Total	0.150	0.1351		mg/Kg		90	70 - 130	1	38
Methyl tert-butyl ether	0.0500	0.06095		mg/Kg		122	54 - 145	1	36
Naphthalene	0.0500	0.06068		mg/Kg		121	55 - 149	2	37
Tert-amyl methyl ether	0.0500	0.05078		mg/Kg		102	10 - 150	1	50
tert-Butyl alcohol (TBA)	0.500	0.5924		mg/Kg		118	10 - 150	4	50
1,2-Dibromoethane (EDB)	0.0500	0.05167		mg/Kg		103	69 - 130	2	17
Diisopropyl ether	0.0500	0.05130		mg/Kg		103	68 - 134	0	36
1,2-Dichloroethane	0.0500	0.04358		mg/Kg		87	65 - 134	1	16
Ethyl tert-butyl ether	0.0500	0.05329		mg/Kg		107	19 - 150	1	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 490-368979/1-A

Matrix: Solid

Analysis Batch: 369072

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 368979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.00		mg/Kg		09/09/16 13:02	09/09/16 15:32	1

Lab Sample ID: LCS 490-368979/2-A

Matrix: Solid

Analysis Batch: 369072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 368979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	19.8	20.10		mg/Kg		102	80 - 120

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
 SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: 490-111379-1 MS
Matrix: Solid
Analysis Batch: 369072

Client Sample ID: T1-1-16
Prep Type: Total/NA
Prep Batch: 368979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	2.66		19.5	24.90		mg/Kg		114	75 - 125

Lab Sample ID: 490-111379-1 MSD
Matrix: Solid
Analysis Batch: 369072

Client Sample ID: T1-1-16
Prep Type: Total/NA
Prep Batch: 368979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	2.66		19.9	24.16		mg/Kg		108	75 - 125	3	20



QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

GC/MS VOA

Analysis Batch: 368862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-1	T1-1-16	Total/NA	Solid	8260B	368942
490-111379-3	T2-1-16	Total/NA	Solid	8260B	368942
490-111379-5	T3-1-16	Total/NA	Solid	8260B	368942
MB 490-368862/10	Method Blank	Total/NA	Solid	8260B	
LCS 490-368862/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-368862/8	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-368862/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 368942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-1	T1-1-16	Total/NA	Solid	5030B	
490-111379-3	T2-1-16	Total/NA	Solid	5030B	
490-111379-5	T3-1-16	Total/NA	Solid	5030B	

Metals

Prep Batch: 368979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-1	T1-1-16	Total/NA	Solid	3051A	
490-111379-3	T2-1-16	Total/NA	Solid	3051A	
490-111379-5	T3-1-16	Total/NA	Solid	3051A	
MB 490-368979/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-368979/2-A	Lab Control Sample	Total/NA	Solid	3051A	
490-111379-1 MS	T1-1-16	Total/NA	Solid	3051A	
490-111379-1 MSD	T1-1-16	Total/NA	Solid	3051A	

Analysis Batch: 369072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-1	T1-1-16	Total/NA	Solid	6010B	368979
490-111379-3	T2-1-16	Total/NA	Solid	6010B	368979
490-111379-5	T3-1-16	Total/NA	Solid	6010B	368979
MB 490-368979/1-A	Method Blank	Total/NA	Solid	6010B	368979
LCS 490-368979/2-A	Lab Control Sample	Total/NA	Solid	6010B	368979
490-111379-1 MS	T1-1-16	Total/NA	Solid	6010B	368979
490-111379-1 MSD	T1-1-16	Total/NA	Solid	6010B	368979

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T1-1-16

Lab Sample ID: 490-111379-1

Date Collected: 09/08/16 12:05

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.11 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 15:11	IMA	TAL NSH
Total/NA	Prep	3051A			0.522 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369072	09/09/16 15:42	RDF	TAL NSH

Client Sample ID: T2-1-16

Lab Sample ID: 490-111379-3

Date Collected: 09/08/16 12:06

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.73 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 15:39	IMA	TAL NSH
Total/NA	Prep	3051A			0.504 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369072	09/09/16 16:07	RDF	TAL NSH

Client Sample ID: T3-1-16

Lab Sample ID: 490-111379-5

Date Collected: 09/08/16 11:55

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 16:06	IMA	TAL NSH
Total/NA	Prep	3051A			0.513 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369072	09/09/16 16:12	RDF	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-1
SDG: 506 International Blvd., Oakland, CA

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2938	10-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5030B	Solid	Diisopropyl ether

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

COOLER RECEIPT FORM



Cooler Received/Opened On 9/9/2016 @ 0935

Time Samples Removed From Cooler _____ Time Samples Placed In Storage 1053 (2 Hour Window)

1. Tracking # 6417 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960353 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 5.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AS

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Ice Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) AS

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AS

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AS

I certify that I attached a label with the unique LIMS number to each container (initial) AS

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Chain of Custody Record

Client Information Client Contact: Amanda Magee Phone: (916) 472-3985 Company: Stantec Consulting Corp. Address: 3875 Atherton Road City: Rocklin State, Zip: CA, 95765-3716 Phone: Email: amanda.magee@stantec.com Project Name: 37634 Tank Pull Site: 506 International Blvd, Oakland, CA		Lab PM: Wagner, Heather E-Mail: heather.wagner@testamericainc.com Phone: (916) 529-7804 Company: TestAmerica	
Due Date Requested: TAT requested (days): 48 hours PO #: Purchase Order Requested WO #:		Carrier Tracking No(s): Job #:	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - N E - I F - M G - J H - J I - Ic J - E K - E L - E Other:		Preservation Codes: M - Hexane N - None O - Ash/O2 S IS O3 idecahydrate B (specify)	
Sample Identification H1-10 H2-10 H3-10 F-5.0		Analysis Requested Lead EPA 6010 TPH ₉ , BTEX 8260 EDB, SDC, t5cxyds 8260 TPH ₄ , G80-080 8260 Cd, Cr, Pb, Ni, Zn 6010 PCBs	
Sample Date 9/8/16 9/8/16 9/8/16 9/8/16		Sample Time 8:10 8:15 8:20 12:10	
Sample Type (C=Comp, G=grab) G G G G		Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air) S S S S	
Field Filtered Sample (Yes or No) X X X X		Total Number of containers X X X X	
Form MS/MSD (Yes or No) X X X X		Special Instructions/Note: 8260B - (MOD) BTEX + OXY + 1,2DCA, EDB + GRO	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: [Signature] Date/Time: 9/8/16 2:00pm Company: [Blank]			
Relinquished by: [Signature] Date/Time: 9/8/16 09:35 Company: TAN			
Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]			
Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]			
Custody Seal Intact: Δ Yes Δ No 5.1			



Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 490-111379-1
SDG Number: 506 International Blvd., Oakland, CA

Login Number: 111379

List Number: 1

Creator: Stvartak, Anthony Q

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-111379-2
TestAmerica SDG: 506 International Blvd., Oakland, CA
Client Project/Site: 7-11 No. 37634 Tank Pull

For:
Stantec Consulting Corp.
3875 Atherton Road
Rocklin, California 95765-3716

Attn: Amanda Magee



Authorized for release by:
9/13/2016 1:09:12 PM

Heather Wagner, Project Manager I
(615)301-5763
heather.wagner@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111379-2	T1-2-16	Solid	09/08/16 11:50	09/09/16 09:35
490-111379-4	T2-2-16	Solid	09/08/16 11:45	09/09/16 09:35
490-111379-6	T3-2-16	Solid	09/08/16 11:40	09/09/16 09:35
490-111379-7	L1-4.0	Solid	09/08/16 10:20	09/09/16 09:35
490-111379-8	L2-4.0	Solid	09/08/16 10:10	09/09/16 09:35
490-111379-9	D1-4.5	Solid	09/08/16 10:25	09/09/16 09:35
490-111379-10	D2-4.5	Solid	09/08/16 10:15	09/09/16 09:35
490-111379-11	D3-4.5	Solid	09/08/16 10:12	09/09/16 09:35
490-111379-12	H1-10	Solid	09/08/16 08:40	09/09/16 09:35
490-111379-13	H2-10	Solid	09/08/16 08:15	09/09/16 09:35
490-111379-14	H3-10	Solid	09/08/16 08:20	09/09/16 09:35
490-111379-15	F-5.0	Solid	09/08/16 12:10	09/09/16 09:35



Case Narrative

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Job ID: 490-111379-2

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-111379-2

Comments

No additional comments.

Receipt

The samples were received on 9/9/2016 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following samples was outside control limits: D2-4.5 (490-111379-10), D3-4.5 (490-111379-11), H1-10 (490-111379-12), (490-111379-A-12-H MS), (490-111379-A-12-I MS), H3-10 (490-111379-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 369243 recovered outside control limits for the following analytes: 1,2-Dichloroethane and ethylene dibromide.

Method(s) 8260B: The following samples was diluted due to the nature of the sample matrix: D2-4.5 (490-111379-10), D3-4.5 (490-111379-11) and H3-10 (490-111379-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The following sample was diluted due to the nature of the sample matrix: H3-10 (490-111379-14). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T1-2-16

Lab Sample ID: 490-111379-2

Date Collected: 09/08/16 11:50

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Toluene	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Ethylbenzene	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Xylenes, Total	ND		0.00521		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Methyl tert-butyl ether	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Naphthalene	ND		0.00434		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Tert-amyl methyl ether	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
tert-Butyl alcohol (TBA)	ND		0.0434		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
1,2-Dibromoethane (EDB)	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Diisopropyl ether	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
1,2-Dichloroethane	ND		0.00174		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
Ethyl tert-butyl ether	ND		0.00434		mg/Kg		09/09/16 11:30	09/09/16 16:34	1
GRO (C4-C12)	0.239		0.0868		mg/Kg		09/09/16 11:30	09/09/16 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	09/09/16 11:30	09/09/16 16:34	1
4-Bromofluorobenzene (Surr)	108		70 - 130	09/09/16 11:30	09/09/16 16:34	1
Dibromofluoromethane (Surr)	78		70 - 130	09/09/16 11:30	09/09/16 16:34	1
Toluene-d8 (Surr)	105		70 - 130	09/09/16 11:30	09/09/16 16:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.29		1.01		mg/Kg		09/09/16 13:02	09/09/16 20:45	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T2-2-16

Lab Sample ID: 490-111379-4

Date Collected: 09/08/16 11:45

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Toluene	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Ethylbenzene	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Xylenes, Total	ND		0.00546		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Methyl tert-butyl ether	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Naphthalene	ND		0.00455		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Tert-amyl methyl ether	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
tert-Butyl alcohol (TBA)	ND		0.0455		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
1,2-Dibromoethane (EDB)	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Diisopropyl ether	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
1,2-Dichloroethane	ND		0.00182		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
Ethyl tert-butyl ether	ND		0.00455		mg/Kg		09/09/16 11:30	09/09/16 17:01	1
GRO (C4-C12)	0.316		0.0911		mg/Kg		09/09/16 11:30	09/09/16 17:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 130	09/09/16 11:30	09/09/16 17:01	1
4-Bromofluorobenzene (Surr)	109		70 - 130	09/09/16 11:30	09/09/16 17:01	1
Dibromofluoromethane (Surr)	80		70 - 130	09/09/16 11:30	09/09/16 17:01	1
Toluene-d8 (Surr)	105		70 - 130	09/09/16 11:30	09/09/16 17:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.87		0.994		mg/Kg		09/09/16 13:02	09/09/16 20:50	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T3-2-16

Lab Sample ID: 490-111379-6

Date Collected: 09/08/16 11:40

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Toluene	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Ethylbenzene	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Xylenes, Total	ND		0.00539		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Methyl tert-butyl ether	0.00402		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Naphthalene	ND		0.00449		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Tert-amyl methyl ether	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
tert-Butyl alcohol (TBA)	ND		0.0449		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
1,2-Dibromoethane (EDB)	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Diisopropyl ether	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
1,2-Dichloroethane	ND		0.00180		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
Ethyl tert-butyl ether	ND		0.00449		mg/Kg		09/09/16 11:30	09/09/16 17:28	1
GRO (C4-C12)	0.107		0.0898		mg/Kg		09/09/16 11:30	09/09/16 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130	09/09/16 11:30	09/09/16 17:28	1
4-Bromofluorobenzene (Surr)	109		70 - 130	09/09/16 11:30	09/09/16 17:28	1
Dibromofluoromethane (Surr)	82		70 - 130	09/09/16 11:30	09/09/16 17:28	1
Toluene-d8 (Surr)	105		70 - 130	09/09/16 11:30	09/09/16 17:28	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.6		0.984		mg/Kg		09/09/16 13:02	09/09/16 20:55	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: L1-4.0

Lab Sample ID: 490-111379-7

Date Collected: 09/08/16 10:20

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Toluene	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Ethylbenzene	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Xylenes, Total	ND		0.00501		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Methyl tert-butyl ether	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Naphthalene	0.0138		0.00417		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Tert-amyl methyl ether	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
tert-Butyl alcohol (TBA)	ND		0.0417		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
1,2-Dibromoethane (EDB)	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Diisopropyl ether	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
1,2-Dichloroethane	ND		0.00167		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
Ethyl tert-butyl ether	ND		0.00417		mg/Kg		09/09/16 11:30	09/11/16 22:49	1
GRO (C4-C12)	6.24		0.0835		mg/Kg		09/09/16 11:30	09/11/16 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	09/09/16 11:30	09/11/16 22:49	1
4-Bromofluorobenzene (Surr)	120		70 - 130	09/09/16 11:30	09/11/16 22:49	1
Dibromofluoromethane (Surr)	82		70 - 130	09/09/16 11:30	09/11/16 22:49	1
Toluene-d8 (Surr)	105		70 - 130	09/09/16 11:30	09/11/16 22:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.57		0.998		mg/Kg		09/09/16 13:02	09/09/16 21:00	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: L2-4.0

Lab Sample ID: 490-111379-8

Date Collected: 09/08/16 10:10

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Toluene	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Ethylbenzene	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Xylenes, Total	ND		0.00539		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Methyl tert-butyl ether	0.00430		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Naphthalene	0.00891		0.00449		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Tert-amyl methyl ether	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
tert-Butyl alcohol (TBA)	ND		0.0449		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
1,2-Dibromoethane (EDB)	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Diisopropyl ether	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
1,2-Dichloroethane	ND		0.00180		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Ethyl tert-butyl ether	ND		0.00449		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
GRO (C4-C12)	1.71		0.0898		mg/Kg		09/09/16 11:30	09/11/16 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	83		70 - 130				09/09/16 11:30	09/11/16 23:44	1
<i>4-Bromofluorobenzene (Surr)</i>	114		70 - 130				09/09/16 11:30	09/11/16 23:44	1
<i>Dibromofluoromethane (Surr)</i>	77		70 - 130				09/09/16 11:30	09/11/16 23:44	1
<i>Toluene-d8 (Surr)</i>	108		70 - 130				09/09/16 11:30	09/11/16 23:44	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.84		1.00		mg/Kg		09/09/16 13:02	09/09/16 21:05	1

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: D1-4.5

Lab Sample ID: 490-111379-9

Date Collected: 09/08/16 10:25

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Toluene	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Ethylbenzene	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Xylenes, Total	ND		0.00535		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Methyl tert-butyl ether	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Naphthalene	ND		0.00446		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Tert-amyl methyl ether	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
tert-Butyl alcohol (TBA)	ND		0.0446		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
1,2-Dibromoethane (EDB)	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Diisopropyl ether	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
1,2-Dichloroethane	ND		0.00178		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
Ethyl tert-butyl ether	ND		0.00446		mg/Kg		09/09/16 11:30	09/09/16 17:56	1
GRO (C4-C12)	ND		0.0891		mg/Kg		09/09/16 11:30	09/09/16 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130	09/09/16 11:30	09/09/16 17:56	1
4-Bromofluorobenzene (Surr)	106		70 - 130	09/09/16 11:30	09/09/16 17:56	1
Dibromofluoromethane (Surr)	81		70 - 130	09/09/16 11:30	09/09/16 17:56	1
Toluene-d8 (Surr)	104		70 - 130	09/09/16 11:30	09/09/16 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.90		1.01		mg/Kg		09/09/16 13:02	09/09/16 21:10	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: D2-4.5

Lab Sample ID: 490-111379-10

Date Collected: 09/08/16 10:15

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Toluene	ND		0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Ethylbenzene	0.333		0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Xylenes, Total	0.772		0.125		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Methyl tert-butyl ether	ND		0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Naphthalene	1.41		0.209		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Tert-amyl methyl ether	ND		0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
tert-Butyl alcohol (TBA)	ND		2.09		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
1,2-Dibromoethane (EDB)	ND	*	0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Diisopropyl ether	ND		0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
1,2-Dichloroethane	ND	*	0.0836		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
Ethyl tert-butyl ether	ND		0.209		mg/Kg		09/09/16 11:25	09/12/16 00:39	1
GRO (C4-C12)	139		16.7		mg/Kg		09/09/16 11:25	09/12/16 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 130	09/09/16 11:25	09/12/16 00:39	1
4-Bromofluorobenzene (Surr)	110		70 - 130	09/09/16 11:25	09/12/16 00:39	1
Dibromofluoromethane (Surr)	68	X	70 - 130	09/09/16 11:25	09/12/16 00:39	1
Toluene-d8 (Surr)	103		70 - 130	09/09/16 11:25	09/12/16 00:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.53		0.992		mg/Kg		09/09/16 13:02	09/09/16 21:15	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: D3-4.5

Lab Sample ID: 490-111379-11

Date Collected: 09/08/16 10:12

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.123		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Toluene	ND		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Ethylbenzene	4.05		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Xylenes, Total	3.50		0.144		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Methyl tert-butyl ether	ND		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Naphthalene	5.09		0.239		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Tert-amyl methyl ether	ND		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
tert-Butyl alcohol (TBA)	ND		2.39		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
1,2-Dibromoethane (EDB)	ND *		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Diisopropyl ether	ND		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
1,2-Dichloroethane	ND *		0.0958		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
Ethyl tert-butyl ether	ND		0.239		mg/Kg		09/09/16 11:25	09/12/16 01:06	1
GRO (C4-C12)	712		383		mg/Kg		09/09/16 11:25	09/12/16 01:34	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 130	09/09/16 11:25	09/12/16 01:06	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 130	09/09/16 11:25	09/12/16 01:34	20
4-Bromofluorobenzene (Surr)	100		70 - 130	09/09/16 11:25	09/12/16 01:06	1
4-Bromofluorobenzene (Surr)	111		70 - 130	09/09/16 11:25	09/12/16 01:34	20
Dibromofluoromethane (Surr)	67	X	70 - 130	09/09/16 11:25	09/12/16 01:06	1
Dibromofluoromethane (Surr)	75		70 - 130	09/09/16 11:25	09/12/16 01:34	20
Toluene-d8 (Surr)	109		70 - 130	09/09/16 11:25	09/12/16 01:06	1
Toluene-d8 (Surr)	108		70 - 130	09/09/16 11:25	09/12/16 01:34	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.51		0.980		mg/Kg		09/09/16 13:02	09/09/16 21:32	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: H1-10
Date Collected: 09/08/16 08:40
Date Received: 09/09/16 09:35

Lab Sample ID: 490-111379-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Toluene	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Ethylbenzene	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Xylenes, Total	ND		0.00579		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Methyl tert-butyl ether	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Naphthalene	ND		0.00483		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Tert-amyl methyl ether	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
tert-Butyl alcohol (TBA)	ND		0.0483		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
1,2-Dibromoethane (EDB)	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Diisopropyl ether	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
1,2-Dichloroethane	ND		0.00193		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
Ethyl tert-butyl ether	ND		0.00483		mg/Kg		09/09/16 11:30	09/09/16 18:23	1
GRO (C4-C12)	0.267		0.0965		mg/Kg		09/09/16 11:30	09/09/16 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	09/09/16 11:30	09/09/16 18:23	1
4-Bromofluorobenzene (Surr)	131	X	70 - 130	09/09/16 11:30	09/09/16 18:23	1
Dibromofluoromethane (Surr)	80		70 - 130	09/09/16 11:30	09/09/16 18:23	1
Toluene-d8 (Surr)	107		70 - 130	09/09/16 11:30	09/09/16 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13.6		4.89		mg/Kg		09/09/16 11:46	09/10/16 14:55	1
Oil Range Organics (C20-C34)	18.7		9.77		mg/Kg		09/09/16 11:46	09/10/16 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	83		50 - 150	09/09/16 11:46	09/10/16 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1
PCB-1221	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1
PCB-1232	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1
PCB-1242	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1
PCB-1248	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1
PCB-1254	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1
PCB-1260	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		19 - 147	09/09/16 11:56	09/11/16 15:40	1
DCB Decachlorobiphenyl (Surr)	113		20 - 150	09/09/16 11:56	09/11/16 15:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.41		0.994		mg/Kg		09/09/16 13:02	09/09/16 21:37	1
Cadmium	ND		0.994		mg/Kg		09/09/16 13:02	09/09/16 21:37	1
Nickel	31.1		1.99		mg/Kg		09/09/16 13:02	09/09/16 21:37	1
Zinc	16.7		9.94		mg/Kg		09/09/16 13:02	09/09/16 21:37	1
Chromium	23.7		0.994		mg/Kg		09/09/16 13:02	09/09/16 21:37	1

TestAmerica Nashville

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: H2-10
Date Collected: 09/08/16 08:15
Date Received: 09/09/16 09:35

Lab Sample ID: 490-111379-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Toluene	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Ethylbenzene	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Xylenes, Total	ND		0.00568		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Methyl tert-butyl ether	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Naphthalene	0.00629		0.00473		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Tert-amyl methyl ether	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
tert-Butyl alcohol (TBA)	ND		0.0473		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
1,2-Dibromoethane (EDB)	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Diisopropyl ether	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
1,2-Dichloroethane	ND		0.00189		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Ethyl tert-butyl ether	ND		0.00473		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
GRO (C4-C12)	ND		0.0947		mg/Kg		09/09/16 11:30	09/09/16 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 130				09/09/16 11:30	09/09/16 19:46	1
4-Bromofluorobenzene (Surr)	114		70 - 130				09/09/16 11:30	09/09/16 19:46	1
Dibromofluoromethane (Surr)	80		70 - 130				09/09/16 11:30	09/09/16 19:46	1
Toluene-d8 (Surr)	107		70 - 130				09/09/16 11:30	09/09/16 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.84		mg/Kg		09/09/16 11:46	09/09/16 23:45	1
Oil Range Organics (C20-C34)	ND		9.69		mg/Kg		09/09/16 11:46	09/09/16 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	95		50 - 150				09/09/16 11:46	09/09/16 23:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
PCB-1221	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
PCB-1232	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
PCB-1242	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
PCB-1248	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
PCB-1254	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
PCB-1260	ND		0.0331		mg/Kg		09/09/16 11:56	09/11/16 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		19 - 147				09/09/16 11:56	09/11/16 15:55	1
DCB Decachlorobiphenyl (Surr)	109		20 - 150				09/09/16 11:56	09/11/16 15:55	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.31		0.996		mg/Kg		09/09/16 13:02	09/09/16 21:42	1
Cadmium	ND		0.996		mg/Kg		09/09/16 13:02	09/09/16 21:42	1
Nickel	18.0		1.99		mg/Kg		09/09/16 13:02	09/09/16 21:42	1
Zinc	12.4		9.96		mg/Kg		09/09/16 13:02	09/09/16 21:42	1
Chromium	15.5		0.996		mg/Kg		09/09/16 13:02	09/09/16 21:42	1

TestAmerica Nashville

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: H3-10
Date Collected: 09/08/16 08:20
Date Received: 09/09/16 09:35

Lab Sample ID: 490-111379-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Toluene	ND		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Ethylbenzene	4.11		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Xylenes, Total	27.7		0.147		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Methyl tert-butyl ether	ND		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Naphthalene	7.98		0.245		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Tert-amyl methyl ether	ND		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
tert-Butyl alcohol (TBA)	ND		2.45		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
1,2-Dibromoethane (EDB)	ND *		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Diisopropyl ether	ND		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
1,2-Dichloroethane	ND *		0.0980		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
Ethyl tert-butyl ether	ND		0.245		mg/Kg		09/09/16 11:25	09/12/16 02:01	1
GRO (C4-C12)	971		392		mg/Kg		09/09/16 11:25	09/12/16 02:29	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 130	09/09/16 11:25	09/12/16 02:01	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 130	09/09/16 11:25	09/12/16 02:29	20
4-Bromofluorobenzene (Surr)	108		70 - 130	09/09/16 11:25	09/12/16 02:01	1
4-Bromofluorobenzene (Surr)	111		70 - 130	09/09/16 11:25	09/12/16 02:29	20
Dibromofluoromethane (Surr)	67 X		70 - 130	09/09/16 11:25	09/12/16 02:01	1
Dibromofluoromethane (Surr)	74		70 - 130	09/09/16 11:25	09/12/16 02:29	20
Toluene-d8 (Surr)	106		70 - 130	09/09/16 11:25	09/12/16 02:01	1
Toluene-d8 (Surr)	108		70 - 130	09/09/16 11:25	09/12/16 02:29	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	804		49.4		mg/Kg		09/09/16 11:46	09/10/16 15:43	10
Oil Range Organics (C20-C34)	1030		98.8		mg/Kg		09/09/16 11:46	09/10/16 15:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	137		50 - 150	09/09/16 11:46	09/10/16 15:43	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1
PCB-1221	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1
PCB-1232	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1
PCB-1242	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1
PCB-1248	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1
PCB-1254	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1
PCB-1260	ND		0.0323		mg/Kg		09/09/16 11:56	09/11/16 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		19 - 147	09/09/16 11:56	09/11/16 16:42	1
DCB Decachlorobiphenyl (Surr)	106		20 - 150	09/09/16 11:56	09/11/16 16:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17.4		1.00		mg/Kg		09/09/16 13:02	09/09/16 21:47	1
Cadmium	ND		1.00		mg/Kg		09/09/16 13:02	09/09/16 21:47	1
Nickel	61.3		2.00		mg/Kg		09/09/16 13:02	09/09/16 21:47	1

TestAmerica Nashville

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: H3-10

Lab Sample ID: 490-111379-14

Date Collected: 09/08/16 08:20

Matrix: Solid

Date Received: 09/09/16 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	20.5		10.0		mg/Kg		09/09/16 13:02	09/09/16 21:47	1
Chromium	33.8		1.00		mg/Kg		09/09/16 13:02	09/09/16 21:47	1

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

Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

Client Sample ID: F-5.0
Date Collected: 09/08/16 12:10
Date Received: 09/09/16 09:35

Lab Sample ID: 490-111379-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00167		mg/Kg		09/09/16 11:30	09/12/16 02:56	1
Toluene	ND		0.00167		mg/Kg		09/09/16 11:30	09/12/16 02:56	1
Ethylbenzene	ND		0.00167		mg/Kg		09/09/16 11:30	09/12/16 02:56	1
Xylenes, Total	ND		0.00501		mg/Kg		09/09/16 11:30	09/12/16 02:56	1
GRO (C4-C12)	3.55		0.0835		mg/Kg		09/09/16 11:30	09/12/16 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	79		70 - 130	09/09/16 11:30	09/12/16 02:56	1
<i>Toluene-d8 (Surr)</i>	108		70 - 130	09/09/16 11:30	09/12/16 02:56	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	84		70 - 130	09/09/16 11:30	09/12/16 02:56	1
<i>4-Bromofluorobenzene (Surr)</i>	110		70 - 130	09/09/16 11:30	09/12/16 02:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.38		0.992		mg/Kg		09/09/16 13:02	09/09/16 21:52	1

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: MB 490-368862/10

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			09/09/16 14:17	1
Toluene	ND		0.00200		mg/Kg			09/09/16 14:17	1
Ethylbenzene	ND		0.00200		mg/Kg			09/09/16 14:17	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/09/16 14:17	1
Xylenes, Total	ND		0.00600		mg/Kg			09/09/16 14:17	1
Naphthalene	ND		0.00500		mg/Kg			09/09/16 14:17	1
Tert-amyl methyl ether	ND		0.00200		mg/Kg			09/09/16 14:17	1
tert-Butyl alcohol (TBA)	ND		0.0500		mg/Kg			09/09/16 14:17	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			09/09/16 14:17	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/09/16 14:17	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/09/16 14:17	1
Ethyl tert-butyl ether	ND		0.00500		mg/Kg			09/09/16 14:17	1
GRO (C4-C12)	ND		0.100		mg/Kg			09/09/16 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		09/09/16 14:17	1
4-Bromofluorobenzene (Surr)	113		70 - 130		09/09/16 14:17	1
Dibromofluoromethane (Surr)	77		70 - 130		09/09/16 14:17	1
Toluene-d8 (Surr)	104		70 - 130		09/09/16 14:17	1

Lab Sample ID: LCS 490-368862/4

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05416		mg/Kg		108	70 - 130
Toluene	0.0500	0.05670		mg/Kg		113	70 - 130
Ethylbenzene	0.0500	0.04779		mg/Kg		96	70 - 130
Methyl tert-butyl ether	0.0500	0.06058		mg/Kg		121	54 - 145
Xylenes, Total	0.150	0.1338		mg/Kg		89	70 - 130
Naphthalene	0.0500	0.05959		mg/Kg		119	55 - 149
Tert-amyl methyl ether	0.0500	0.05150		mg/Kg		103	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.5669		mg/Kg		113	10 - 150
1,2-Dibromoethane (EDB)	0.0500	0.05074		mg/Kg		101	69 - 130
Diisopropyl ether	0.0500	0.05126		mg/Kg		103	68 - 134
1,2-Dichloroethane	0.0500	0.04390		mg/Kg		88	65 - 134
Ethyl tert-butyl ether	0.0500	0.05271		mg/Kg		105	19 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	105		70 - 130

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: LCS 490-368862/8

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	1.154		mg/Kg		115	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-368862/5

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.0500	0.05406		mg/Kg		108	70 - 130	0	37
Toluene	0.0500	0.05727		mg/Kg		115	70 - 130	1	40
Ethylbenzene	0.0500	0.04869		mg/Kg		97	70 - 130	2	38
Methyl tert-butyl ether	0.0500	0.06095		mg/Kg		122	54 - 145	1	36
Xylenes, Total	0.150	0.1351		mg/Kg		90	70 - 130	1	38
Naphthalene	0.0500	0.06068		mg/Kg		121	55 - 149	2	37
Tert-amyl methyl ether	0.0500	0.05078		mg/Kg		102	10 - 150	1	50
tert-Butyl alcohol (TBA)	0.500	0.5924		mg/Kg		118	10 - 150	4	50
1,2-Dibromoethane (EDB)	0.0500	0.05167		mg/Kg		103	69 - 130	2	17
Diisopropyl ether	0.0500	0.05130		mg/Kg		103	68 - 134	0	36
1,2-Dichloroethane	0.0500	0.04358		mg/Kg		87	65 - 134	1	16
Ethyl tert-butyl ether	0.0500	0.05329		mg/Kg		107	19 - 150	1	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: 490-111379-12 MS

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: H1-10

Prep Type: Total/NA

Prep Batch: 368942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0481	0.04544		mg/Kg		92	21 - 150
Toluene	ND		0.0481	0.05031		mg/Kg		105	17 - 150
Ethylbenzene	ND		0.0481	0.03743		mg/Kg		78	10 - 150
Methyl tert-butyl ether	ND		0.0481	0.04822		mg/Kg		100	10 - 150
Xylenes, Total	ND		0.0962	0.1015		mg/Kg		106	10 - 150
Naphthalene	ND		0.0481	0.03261		mg/Kg		64	10 - 150
Tert-amyl methyl ether	ND		0.0481	0.04106		mg/Kg		85	10 - 150
tert-Butyl alcohol (TBA)	ND		0.481	0.5539		mg/Kg		115	10 - 150
1,2-Dibromoethane (EDB)	ND		0.0481	0.04310		mg/Kg		90	10 - 150
Diisopropyl ether	ND		0.0481	0.04250		mg/Kg		88	27 - 144

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: 490-111379-12 MS

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: H1-10

Prep Type: Total/NA

Prep Batch: 368942

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dichloroethane	ND		0.0481	0.03630		mg/Kg		76	24 - 138
Ethyl tert-butyl ether	ND		0.0481	0.04288		mg/Kg		89	10 - 150
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	84		70 - 130						
4-Bromofluorobenzene (Surr)	140	X	70 - 130						
Dibromofluoromethane (Surr)	84		70 - 130						
Toluene-d8 (Surr)	108		70 - 130						

Lab Sample ID: 490-111379-12 MSD

Matrix: Solid

Analysis Batch: 368862

Client Sample ID: H1-10

Prep Type: Total/NA

Prep Batch: 368942

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Benzene	ND		0.0449	0.04034		mg/Kg		88	21 - 150	12	50
Toluene	ND		0.0449	0.04472		mg/Kg		100	17 - 150	12	50
Ethylbenzene	ND		0.0449	0.03306		mg/Kg		74	10 - 150	12	50
Methyl tert-butyl ether	ND		0.0449	0.04257		mg/Kg		95	10 - 150	12	50
Xylenes, Total	ND		0.0898	0.08950		mg/Kg		100	10 - 150	13	50
Naphthalene	ND		0.0449	0.03153		mg/Kg		66	10 - 150	3	50
Tert-amyl methyl ether	ND		0.0449	0.03547		mg/Kg		79	10 - 150	15	50
tert-Butyl alcohol (TBA)	ND		0.449	0.5144		mg/Kg		115	10 - 150	7	50
1,2-Dibromoethane (EDB)	ND		0.0449	0.03782		mg/Kg		84	10 - 150	13	50
Diisopropyl ether	ND		0.0449	0.03734		mg/Kg		83	27 - 144	13	50
1,2-Dichloroethane	ND		0.0449	0.03202		mg/Kg		71	24 - 138	13	50
Ethyl tert-butyl ether	ND		0.0449	0.03741		mg/Kg		83	10 - 150	14	50
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	85		70 - 130								
4-Bromofluorobenzene (Surr)	142	X	70 - 130								
Dibromofluoromethane (Surr)	82		70 - 130								
Toluene-d8 (Surr)	109		70 - 130								

Lab Sample ID: MB 490-369243/12

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.100		mg/Kg			09/11/16 21:00	1
Toluene	ND		0.100		mg/Kg			09/11/16 21:00	1
Ethylbenzene	ND		0.100		mg/Kg			09/11/16 21:00	1
Methyl tert-butyl ether	ND		0.100		mg/Kg			09/11/16 21:00	1
Xylenes, Total	ND		0.150		mg/Kg			09/11/16 21:00	1
Naphthalene	ND		0.250		mg/Kg			09/11/16 21:00	1
Tert-amyl methyl ether	ND		0.100		mg/Kg			09/11/16 21:00	1
tert-Butyl alcohol (TBA)	ND		2.50		mg/Kg			09/11/16 21:00	1
1,2-Dibromoethane (EDB)	ND		0.100		mg/Kg			09/11/16 21:00	1
Diisopropyl ether	ND		0.100		mg/Kg			09/11/16 21:00	1

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: MB 490-369243/12

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.100		mg/Kg			09/11/16 21:00	1
Ethyl tert-butyl ether	ND		0.250		mg/Kg			09/11/16 21:00	1
GRO (C4-C12)	ND		20.0		mg/Kg			09/11/16 21:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		09/11/16 21:00	1
4-Bromofluorobenzene (Surr)	110		70 - 130		09/11/16 21:00	1
Dibromofluoromethane (Surr)	80		70 - 130		09/11/16 21:00	1
Toluene-d8 (Surr)	106		70 - 130		09/11/16 21:00	1

Lab Sample ID: MB 490-369243/13

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			09/11/16 21:27	1
Toluene	ND		0.00200		mg/Kg			09/11/16 21:27	1
Ethylbenzene	ND		0.00200		mg/Kg			09/11/16 21:27	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/11/16 21:27	1
Xylenes, Total	ND		0.00600		mg/Kg			09/11/16 21:27	1
Naphthalene	ND		0.00500		mg/Kg			09/11/16 21:27	1
Tert-amyl methyl ether	ND		0.00200		mg/Kg			09/11/16 21:27	1
tert-Butyl alcohol (TBA)	ND		0.0500		mg/Kg			09/11/16 21:27	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			09/11/16 21:27	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/11/16 21:27	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/11/16 21:27	1
Ethyl tert-butyl ether	ND		0.00500		mg/Kg			09/11/16 21:27	1
GRO (C4-C12)	ND		0.100		mg/Kg			09/11/16 21:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		09/11/16 21:27	1
4-Bromofluorobenzene (Surr)	108		70 - 130		09/11/16 21:27	1
Dibromofluoromethane (Surr)	79		70 - 130		09/11/16 21:27	1
Toluene-d8 (Surr)	105		70 - 130		09/11/16 21:27	1

Lab Sample ID: LCS 490-369243/4

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	1.101		mg/Kg		110	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	81		70 - 130
Toluene-d8 (Surr)	103		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: LCS 490-369243/5

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	50.0	70.67		mg/Kg		141	48 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	80		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: LCS 490-369243/7

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05024		mg/Kg		100	70 - 130
Toluene	0.0500	0.05328		mg/Kg		107	70 - 130
Ethylbenzene	0.0500	0.04492		mg/Kg		90	70 - 130
Methyl tert-butyl ether	0.0500	0.05415		mg/Kg		108	54 - 145
Xylenes, Total	0.150	0.1251		mg/Kg		83	70 - 130
Naphthalene	0.0500	0.06047		mg/Kg		121	55 - 149
Tert-amyl methyl ether	0.0500	0.04526		mg/Kg		91	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.5101		mg/Kg		102	10 - 150
1,2-Dibromoethane (EDB)	0.0500	0.04842		mg/Kg		97	69 - 130
Diisopropyl ether	0.0500	0.04748		mg/Kg		95	68 - 134
1,2-Dichloroethane	0.0500	0.04146		mg/Kg		83	65 - 134
Ethyl tert-butyl ether	0.0500	0.04809		mg/Kg		96	19 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: LCS 490-369243/9

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2.50	2.206		mg/Kg		88	70 - 130
Toluene	2.50	2.303		mg/Kg		92	70 - 130
Ethylbenzene	2.50	1.972		mg/Kg		79	70 - 130
Methyl tert-butyl ether	2.50	2.340		mg/Kg		94	54 - 145
Xylenes, Total	7.50	5.504		mg/Kg		73	70 - 130
Naphthalene	2.50	2.092		mg/Kg		84	55 - 149
Tert-amyl methyl ether	2.50	1.975		mg/Kg		79	10 - 150
tert-Butyl alcohol (TBA)	25.0	20.26		mg/Kg		81	10 - 150
1,2-Dibromoethane (EDB)	2.50	2.095		mg/Kg		84	69 - 130
Diisopropyl ether	2.50	2.115		mg/Kg		85	68 - 134

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: LCS 490-369243/9

Matrix: Solid

Analysis Batch: 369243

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2.50	1.793		mg/Kg		72	65 - 134
Ethyl tert-butyl ether	2.50	2.113		mg/Kg		85	19 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	81		70 - 130
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: LCSD 490-369243/10

Matrix: Solid

Analysis Batch: 369243

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
Benzene	2.50	2.589		mg/Kg		104	70 - 130	16	37
Toluene	2.50	2.726		mg/Kg		109	70 - 130	17	40
Ethylbenzene	2.50	2.332		mg/Kg		93	70 - 130	17	38
Methyl tert-butyl ether	2.50	2.764		mg/Kg		111	54 - 145	17	36
Xylenes, Total	7.50	6.486		mg/Kg		86	70 - 130	16	38
Naphthalene	2.50	3.033		mg/Kg		121	55 - 149	37	37
Tert-amyl methyl ether	2.50	2.366		mg/Kg		95	10 - 150	18	50
tert-Butyl alcohol (TBA)	25.0	25.88		mg/Kg		104	10 - 150	24	50
1,2-Dibromoethane (EDB)	2.50	2.507	*	mg/Kg		100	69 - 130	18	17
Diisopropyl ether	2.50	2.481		mg/Kg		99	68 - 134	16	36
1,2-Dichloroethane	2.50	2.159	*	mg/Kg		86	65 - 134	19	16
Ethyl tert-butyl ether	2.50	2.475		mg/Kg		99	19 - 150	16	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	82		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: LCSD 490-369243/8

Matrix: Solid

Analysis Batch: 369243

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
Benzene	0.0500	0.05183		mg/Kg		104	70 - 130	3	37
Toluene	0.0500	0.05430		mg/Kg		109	70 - 130	2	40
Ethylbenzene	0.0500	0.04510		mg/Kg		90	70 - 130	0	38
Methyl tert-butyl ether	0.0500	0.05486		mg/Kg		110	54 - 145	1	36
Xylenes, Total	0.150	0.1268		mg/Kg		85	70 - 130	1	38
Naphthalene	0.0500	0.05986		mg/Kg		120	55 - 149	1	37
Tert-amyl methyl ether	0.0500	0.04636		mg/Kg		93	10 - 150	2	50
tert-Butyl alcohol (TBA)	0.500	0.4470		mg/Kg		89	10 - 150	13	50
1,2-Dibromoethane (EDB)	0.0500	0.04880		mg/Kg		98	69 - 130	1	17
Diisopropyl ether	0.0500	0.04951		mg/Kg		99	68 - 134	4	36

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: LCSD 490-369243/8
Matrix: Solid
Analysis Batch: 369243

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
1,2-Dichloroethane	0.0500	0.04217		mg/Kg		84	65 - 134	2	16
Ethyl tert-butyl ether	0.0500	0.04945		mg/Kg		99	19 - 150	3	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	81		70 - 130
Toluene-d8 (Surr)	105		70 - 130

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

Lab Sample ID: MB 490-368944/1-A
Matrix: Solid
Analysis Batch: 368831

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.00		mg/Kg		09/09/16 11:46	09/09/16 22:17	1
Oil Range Organics (C20-C34)	ND		10.0		mg/Kg		09/09/16 11:46	09/09/16 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	115		50 - 150	09/09/16 11:46	09/09/16 22:17	1

Lab Sample ID: LCS 490-368944/2-A
Matrix: Solid
Analysis Batch: 368831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	40.0	29.71		mg/Kg		74	54 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	97		50 - 150

Lab Sample ID: 490-111379-12 MS
Matrix: Solid
Analysis Batch: 369161

Client Sample ID: H1-10
Prep Type: Total/NA
Prep Batch: 368944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	13.6		39.4	55.00		mg/Kg		105	10 - 142

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	90		50 - 150

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: 490-111379-12 MSD
Matrix: Solid
Analysis Batch: 369161

Client Sample ID: H1-10
Prep Type: Total/NA
Prep Batch: 368944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics [C10-C28]	13.6		39.2	45.84		mg/Kg		82	10 - 142	18	47
Surrogate	%Recovery	MSD Qualifier	Limits								
<i>o</i> -Terphenyl (Surr)	96		50 - 150								

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

Lab Sample ID: MB 490-368949/1-A
Matrix: Solid
Analysis Batch: 369206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
PCB-1221	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
PCB-1232	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
PCB-1242	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
PCB-1248	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
PCB-1254	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
PCB-1260	ND		0.0333		mg/Kg		09/09/16 11:56	09/11/16 15:09	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene	100		19 - 147				09/09/16 11:56	09/11/16 15:09	1
DCB Decachlorobiphenyl (Surr)	123		20 - 150				09/09/16 11:56	09/11/16 15:09	1

Lab Sample ID: LCS 490-368949/2-A
Matrix: Solid
Analysis Batch: 369206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	0.167	0.1731		mg/Kg		104	60 - 137
PCB-1260	0.167	0.1748		mg/Kg		105	56 - 141
Surrogate	%Recovery	LCS Qualifier	Limits				
Tetrachloro- <i>m</i> -xylene	96		19 - 147				
DCB Decachlorobiphenyl (Surr)	111		20 - 150				

Lab Sample ID: 490-111379-13 MS
Matrix: Solid
Analysis Batch: 369206

Client Sample ID: H2-10
Prep Type: Total/NA
Prep Batch: 368949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		0.167	0.1692		mg/Kg		102	10 - 150
PCB-1260	ND		0.167	0.1914		mg/Kg		115	10 - 150
Surrogate	%Recovery	MS Qualifier	Limits						
Tetrachloro- <i>m</i> -xylene	95		19 - 147						

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: 490-111379-13 MS
Matrix: Solid
Analysis Batch: 369206

Client Sample ID: H2-10
Prep Type: Total/NA
Prep Batch: 368949

<i>Surrogate</i>	<i>MS</i> %Recovery	<i>MS</i> Qualifier	<i>Limits</i>
<i>DCB Decachlorobiphenyl (Surr)</i>	115		20 - 150

Lab Sample ID: 490-111379-13 MSD
Matrix: Solid
Analysis Batch: 369206

Client Sample ID: H2-10
Prep Type: Total/NA
Prep Batch: 368949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		0.166	0.1783		mg/Kg		107	10 - 150	5	50
PCB-1260	ND		0.166	0.1964		mg/Kg		118	10 - 150	3	50

<i>Surrogate</i>	<i>MSD</i> %Recovery	<i>MSD</i> Qualifier	<i>Limits</i>
<i>Tetrachloro-m-xylene</i>	101		19 - 147
<i>DCB Decachlorobiphenyl (Surr)</i>	121		20 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 490-368979/1-A
Matrix: Solid
Analysis Batch: 369072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.00		mg/Kg		09/09/16 13:02	09/09/16 15:32	1
Cadmium	ND		1.00		mg/Kg		09/09/16 13:02	09/09/16 15:32	1
Nickel	ND		2.00		mg/Kg		09/09/16 13:02	09/09/16 15:32	1
Zinc	ND		10.0		mg/Kg		09/09/16 13:02	09/09/16 15:32	1

Lab Sample ID: MB 490-368979/1-A
Matrix: Solid
Analysis Batch: 369469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		1.00		mg/Kg		09/09/16 13:02	09/12/16 11:39	1

Lab Sample ID: LCS 490-368979/2-A
Matrix: Solid
Analysis Batch: 369072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	19.8	20.10		mg/Kg		102	80 - 120
Cadmium	19.8	20.04		mg/Kg		101	80 - 120
Nickel	198	199.6		mg/Kg		101	80 - 120
Zinc	198	194.2		mg/Kg		98	80 - 120

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

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

Lab Sample ID: LCS 490-368979/2-A
Matrix: Solid
Analysis Batch: 369469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	79.2	79.68		mg/Kg		101	80 - 120

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

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

GC/MS VOA

Analysis Batch: 368862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-2	T1-2-16	Total/NA	Solid	8260B	368942
490-111379-4	T2-2-16	Total/NA	Solid	8260B	368942
490-111379-6	T3-2-16	Total/NA	Solid	8260B	368942
490-111379-9	D1-4.5	Total/NA	Solid	8260B	368942
490-111379-12	H1-10	Total/NA	Solid	8260B	368942
490-111379-13	H2-10	Total/NA	Solid	8260B	368942
MB 490-368862/10	Method Blank	Total/NA	Solid	8260B	
LCS 490-368862/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-368862/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-368862/5	Lab Control Sample Dup	Total/NA	Solid	8260B	
490-111379-12 MS	H1-10	Total/NA	Solid	8260B	368942
490-111379-12 MSD	H1-10	Total/NA	Solid	8260B	368942

Prep Batch: 368941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-10	D2-4.5	Total/NA	Solid	5030B	
490-111379-11	D3-4.5	Total/NA	Solid	5030B	
490-111379-14	H3-10	Total/NA	Solid	5030B	

Prep Batch: 368942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-2	T1-2-16	Total/NA	Solid	5030B	
490-111379-4	T2-2-16	Total/NA	Solid	5030B	
490-111379-6	T3-2-16	Total/NA	Solid	5030B	
490-111379-7	L1-4.0	Total/NA	Solid	5030B	
490-111379-8	L2-4.0	Total/NA	Solid	5030B	
490-111379-9	D1-4.5	Total/NA	Solid	5030B	
490-111379-12	H1-10	Total/NA	Solid	5030B	
490-111379-13	H2-10	Total/NA	Solid	5030B	
490-111379-15	F-5.0	Total/NA	Solid	5030B	
490-111379-12 MS	H1-10	Total/NA	Solid	5030B	
490-111379-12 MSD	H1-10	Total/NA	Solid	5030B	

Analysis Batch: 369243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-7	L1-4.0	Total/NA	Solid	8260B	368942
490-111379-8	L2-4.0	Total/NA	Solid	8260B	368942
490-111379-10	D2-4.5	Total/NA	Solid	8260B	368941
490-111379-11	D3-4.5	Total/NA	Solid	8260B	368941
490-111379-11	D3-4.5	Total/NA	Solid	8260B	368941
490-111379-14	H3-10	Total/NA	Solid	8260B	368941
490-111379-14	H3-10	Total/NA	Solid	8260B	368941
490-111379-15	F-5.0	Total/NA	Solid	8260B	368942
MB 490-369243/12	Method Blank	Total/NA	Solid	8260B	
MB 490-369243/13	Method Blank	Total/NA	Solid	8260B	
LCS 490-369243/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-369243/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-369243/7	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-369243/9	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-369243/10	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 490-369243/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

TestAmerica Nashville

QC Association Summary

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

GC Semi VOA

Analysis Batch: 368831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-13	H2-10	Total/NA	Solid	8015B	368944
MB 490-368944/1-A	Method Blank	Total/NA	Solid	8015B	368944
LCS 490-368944/2-A	Lab Control Sample	Total/NA	Solid	8015B	368944

Prep Batch: 368944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-12	H1-10	Total/NA	Solid	3550C	
490-111379-13	H2-10	Total/NA	Solid	3550C	
490-111379-14	H3-10	Total/NA	Solid	3550C	
MB 490-368944/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-368944/2-A	Lab Control Sample	Total/NA	Solid	3550C	
490-111379-12 MS	H1-10	Total/NA	Solid	3550C	
490-111379-12 MSD	H1-10	Total/NA	Solid	3550C	

Prep Batch: 368949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-12	H1-10	Total/NA	Solid	3550C	
490-111379-13	H2-10	Total/NA	Solid	3550C	
490-111379-14	H3-10	Total/NA	Solid	3550C	
MB 490-368949/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-368949/2-A	Lab Control Sample	Total/NA	Solid	3550C	
490-111379-13 MS	H2-10	Total/NA	Solid	3550C	
490-111379-13 MSD	H2-10	Total/NA	Solid	3550C	

Analysis Batch: 369161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-12	H1-10	Total/NA	Solid	8015B	368944
490-111379-14	H3-10	Total/NA	Solid	8015B	368944
490-111379-12 MS	H1-10	Total/NA	Solid	8015B	368944
490-111379-12 MSD	H1-10	Total/NA	Solid	8015B	368944

Analysis Batch: 369206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-12	H1-10	Total/NA	Solid	8082	368949
490-111379-13	H2-10	Total/NA	Solid	8082	368949
490-111379-14	H3-10	Total/NA	Solid	8082	368949
MB 490-368949/1-A	Method Blank	Total/NA	Solid	8082	368949
LCS 490-368949/2-A	Lab Control Sample	Total/NA	Solid	8082	368949
490-111379-13 MS	H2-10	Total/NA	Solid	8082	368949
490-111379-13 MSD	H2-10	Total/NA	Solid	8082	368949

Metals

Prep Batch: 368979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-2	T1-2-16	Total/NA	Solid	3051A	
490-111379-4	T2-2-16	Total/NA	Solid	3051A	
490-111379-6	T3-2-16	Total/NA	Solid	3051A	
490-111379-7	L1-4.0	Total/NA	Solid	3051A	
490-111379-8	L2-4.0	Total/NA	Solid	3051A	

QC Association Summary

Client: Stantec Consulting Corp.
 Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
 SDG: 506 International Blvd., Oakland, CA

Metals (Continued)

Prep Batch: 368979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-9	D1-4.5	Total/NA	Solid	3051A	
490-111379-10	D2-4.5	Total/NA	Solid	3051A	
490-111379-11	D3-4.5	Total/NA	Solid	3051A	
490-111379-12	H1-10	Total/NA	Solid	3051A	
490-111379-13	H2-10	Total/NA	Solid	3051A	
490-111379-14	H3-10	Total/NA	Solid	3051A	
490-111379-15	F-5.0	Total/NA	Solid	3051A	
MB 490-368979/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-368979/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Analysis Batch: 369072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-368979/1-A	Method Blank	Total/NA	Solid	6010B	368979
LCS 490-368979/2-A	Lab Control Sample	Total/NA	Solid	6010B	368979

Analysis Batch: 369215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111379-2	T1-2-16	Total/NA	Solid	6010B	368979
490-111379-4	T2-2-16	Total/NA	Solid	6010B	368979
490-111379-6	T3-2-16	Total/NA	Solid	6010B	368979
490-111379-7	L1-4.0	Total/NA	Solid	6010B	368979
490-111379-8	L2-4.0	Total/NA	Solid	6010B	368979
490-111379-9	D1-4.5	Total/NA	Solid	6010B	368979
490-111379-10	D2-4.5	Total/NA	Solid	6010B	368979
490-111379-11	D3-4.5	Total/NA	Solid	6010B	368979
490-111379-12	H1-10	Total/NA	Solid	6010B	368979
490-111379-13	H2-10	Total/NA	Solid	6010B	368979
490-111379-14	H3-10	Total/NA	Solid	6010B	368979
490-111379-15	F-5.0	Total/NA	Solid	6010B	368979

Analysis Batch: 369469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-368979/1-A	Method Blank	Total/NA	Solid	6010B	368979
LCS 490-368979/2-A	Lab Control Sample	Total/NA	Solid	6010B	368979

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: T1-2-16

Lab Sample ID: 490-111379-2

Date Collected: 09/08/16 11:50

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.76 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 16:34	IMA	TAL NSH
Total/NA	Prep	3051A			0.495 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 20:45	RDF	TAL NSH

Client Sample ID: T2-2-16

Lab Sample ID: 490-111379-4

Date Collected: 09/08/16 11:45

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.49 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 17:01	IMA	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 20:50	RDF	TAL NSH

Client Sample ID: T3-2-16

Lab Sample ID: 490-111379-6

Date Collected: 09/08/16 11:40

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.57 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 17:28	IMA	TAL NSH
Total/NA	Prep	3051A			0.508 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 20:55	RDF	TAL NSH

Client Sample ID: L1-4.0

Lab Sample ID: 490-111379-7

Date Collected: 09/08/16 10:20

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.99 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	369243	09/11/16 22:49	IMA	TAL NSH
Total/NA	Prep	3051A			0.501 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:00	RDF	TAL NSH

Client Sample ID: L2-4.0

Lab Sample ID: 490-111379-8

Date Collected: 09/08/16 10:10

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.57 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	369243	09/11/16 23:44	IMA	TAL NSH
Total/NA	Prep	3051A			0.500 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: L2-4.0

Lab Sample ID: 490-111379-8

Date Collected: 09/08/16 10:10

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1			369215	09/09/16 21:05	RDF	TAL NSH

Client Sample ID: D1-4.5

Lab Sample ID: 490-111379-9

Date Collected: 09/08/16 10:25

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.61 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 17:56	IMA	TAL NSH
Total/NA	Prep	3051A			0.496 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:10	RDF	TAL NSH

Client Sample ID: D2-4.5

Lab Sample ID: 490-111379-10

Date Collected: 09/08/16 10:15

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.98 g	5.0 mL	368941	09/09/16 11:25	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.1 mL	5 mL	369243	09/12/16 00:39	IMA	TAL NSH
Total/NA	Prep	3051A			0.504 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:15	RDF	TAL NSH

Client Sample ID: D3-4.5

Lab Sample ID: 490-111379-11

Date Collected: 09/08/16 10:12

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.22 g	5.0 mL	368941	09/09/16 11:25	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.1 mL	5 mL	369243	09/12/16 01:06	IMA	TAL NSH
Total/NA	Prep	5030B			5.22 g	5.0 mL	368941	09/09/16 11:25	JLP	TAL NSH
Total/NA	Analysis	8260B		20	0.1 mL	5 mL	369243	09/12/16 01:34	IMA	TAL NSH
Total/NA	Prep	3051A			0.510 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:32	RDF	TAL NSH

Client Sample ID: H1-10

Lab Sample ID: 490-111379-12

Date Collected: 09/08/16 08:40

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.18 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 18:23	IMA	TAL NSH
Total/NA	Prep	3550C			25.58 g	1.00 mL	368944	09/09/16 11:46	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			369161	09/10/16 14:55	GMH	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: H1-10

Lab Sample ID: 490-111379-12

Date Collected: 09/08/16 08:40

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.93 g	10 mL	368949	09/09/16 11:56	LOJ	TAL NSH
Total/NA	Analysis	8082		1			369206	09/11/16 15:40	MGH	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:37	RDF	TAL NSH

Client Sample ID: H2-10

Lab Sample ID: 490-111379-13

Date Collected: 09/08/16 08:15

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.28 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	368862	09/09/16 19:46	IMA	TAL NSH
Total/NA	Prep	3550C			25.80 g	1.00 mL	368944	09/09/16 11:46	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			368831	09/09/16 23:45	MDW	TAL NSH
Total/NA	Prep	3550C			30.22 g	10 mL	368949	09/09/16 11:56	LOJ	TAL NSH
Total/NA	Analysis	8082		1			369206	09/11/16 15:55	MGH	TAL NSH
Total/NA	Prep	3051A			0.502 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:42	RDF	TAL NSH

Client Sample ID: H3-10

Lab Sample ID: 490-111379-14

Date Collected: 09/08/16 08:20

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.10 g	5.0 mL	368941	09/09/16 11:25	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.1 mL	5 mL	369243	09/12/16 02:01	IMA	TAL NSH
Total/NA	Prep	5030B			5.10 g	5.0 mL	368941	09/09/16 11:25	JLP	TAL NSH
Total/NA	Analysis	8260B		20	0.1 mL	5 mL	369243	09/12/16 02:29	IMA	TAL NSH
Total/NA	Prep	3550C			25.31 g	1.00 mL	368944	09/09/16 11:46	LOJ	TAL NSH
Total/NA	Analysis	8015B		10			369161	09/10/16 15:43	GMH	TAL NSH
Total/NA	Prep	3550C			30.92 g	10 mL	368949	09/09/16 11:56	LOJ	TAL NSH
Total/NA	Analysis	8082		1			369206	09/11/16 16:42	MGH	TAL NSH
Total/NA	Prep	3051A			0.499 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH
Total/NA	Analysis	6010B		1			369215	09/09/16 21:47	RDF	TAL NSH

Client Sample ID: F-5.0

Lab Sample ID: 490-111379-15

Date Collected: 09/08/16 12:10

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.99 g	5.0 mL	368942	09/09/16 11:30	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	369243	09/12/16 02:56	IMA	TAL NSH
Total/NA	Prep	3051A			0.504 g	100 mL	368979	09/09/16 13:02	PG1	TAL NSH

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Client Sample ID: F-5.0

Lab Sample ID: 490-111379-15

Date Collected: 09/08/16 12:10

Matrix: Solid

Date Received: 09/09/16 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1			369215	09/09/16 21:52	RDF	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Method Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL NSH
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-111379-2
SDG: 506 International Blvd., Oakland, CA

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2938	10-31-16

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8015B	3550C	Solid	Oil Range Organics (C20-C34)

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5030B	Solid	Diisopropyl ether



COOLER RECEIPT FORM



Cooler Received/Opened On 9/9/2016 @ 0935

Time Samples Removed From Cooler _____ Time Samples Placed In Storage 1053 (2 Hour Window)

1. Tracking # 6417 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960353 pH Strip Lot HC564992 Chlorine Strip Lot 012516A

2. Temperature of rep. sample or temp blank when opened: 5.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO NA

If yes, how many and where: 0

5. Were the seals intact, signed, and dated correctly? YES...NO NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AS

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Ice Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) AS

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AS

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AS

I certify that I attached a label with the unique LIMS number to each container (initial) AS

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

Chain of Custody Record

Client Information Client Contact: Amanda Magee Phone: (916) 472-3985 Company: Stantec Consulting Corp. Address: 3875 Atherton Road City: Rocklin State, Zip: CA, 95765-3716 Email: amanda.magee@stantec.com Project Name: 37634 Tank Pull Site: 506 International Blvd, Oakland, CA		Lab PM: Wagner, Heather E-Mail: heather.wagner@testamericainc.com Phone: (916) 529-7804 Carrier Tracking No(s):	
Due Date Requested: TAT requested (days): 48 hours PO #: Purchase Order Requested WO #:		Analysis Requested Lead EPA 6010 TPH ₉ , BTEX 8260 EDB, SDC, t5 compounds 8260 TPH ₄ , G80-080 8260 Cd, Cr, Pb, Ni, Zn 6010 PCBs	
Sample Identification H1-10 H2-10 H3-10 F-5.0		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 8260B - (MOD) BTEX + OXY + 1,2DCA, EDB + GRO Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - N ₂ E - I ₂ F - M G - J H - J I - Ic J - E K - E L - E Other:	
Sample Date 9/8/16 9/8/16 9/8/16 9/8/16		Sample Time 8:10 8:15 8:20 12:10	
Sample Type (C=Comp, G=grab) G G G G		Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air) S S S S	
Sample Date 9/8/16 9/8/16 9/8/16 9/8/16		Preservation Code G G G G	
Total Number of containers		Special Instructions/Note:	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]			
Date/Time: 9/8/16 2:00pm Date/Time:		Date/Time: 9/16/16 09:35 Date/Time:	
Date: 9/8/16 Date:		Date: 9/16/16 Date:	
Company: [Blank]		Company: TAN Company:	
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.1	



Chain of Custody Record

Client Information		Sampler: Colin Ryan		Lab PM: Wagner, Heather		Carrier Tracking No(s):	
Amanda Magee (916) 472-3985		Phone: (916) 529-7804		E-Mail: heather.wagner@testamerica.com		COC No: 490-54281-17611.1	
Startec Consulting Corp.		Address: 3875 Atherton Road		City: Rocklin		State, Zip: CA, 95765-3716	
Phone:		TAT Requested (days):		Due Date Requested:		Job #:	
Purchase Order Requested		Various - see below		PO #:		Preservation Codes:	
WO #:		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Project #: 49008288		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
SSOW#:		Sample Date		Sample Time		Preservation Code:	
Site: 506 International Blvd, Oakland, CA		Sample Date		Sample Time		Preservation Code:	
Sample Identification		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
T1-1-16		9/8/16		12:05		G S	
T1-2-16		9/8/16		11:50		G S	
T2-1-16		9/8/16		12:06		G S	
T2-2-16		9/8/16		11:45		G S	
T3-1-16		9/8/16		11:55		G S	
T3-2-16		9/8/16		11:40		G S	
L1-4.0		9/8/16		10:26		G S	
L2-4.0		9/8/16		10:10		G S	
D1-4.5		9/8/16		10:25		G S	
D2-4.5		9/8/16		10:15		G S	
D3-4.5		9/8/16		10:12		G S	
Possible Hazard Identification		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input checked="" type="checkbox"/> Non-Hazard		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Flammable		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Skin Irritant		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Poison B		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Unknown		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Radiological		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Empty Kit Relinquished by:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Relinquished by: [Signature]		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Relinquished by:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Relinquished by:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Custody Seal No.:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Analysis Requested		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Lead EPA 6010		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
T04g, BTEX 82608		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
EPA, EDC + 50 mys via 8408		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Naphthalene 8260		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
8260B - (MOD) BTEX + OXY + 1,2DCA, EDB + GRO		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Field Filtered Sample (Yes or No)		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Perform. MS/MSD (Yes or No)		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Total Number of Containers		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Special Instructions/Note:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
24-hour rush		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour turnaround		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
24 hour rush		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
24-hour rush		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
18-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
48-hour TAT		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Return To Client		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Disposal By Lab		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
<input type="checkbox"/> Archive For		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Special Instructions/QC Requirements:		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Received by: [Signature]		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Received by: [Signature]		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Received by: [Signature]		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	
Cooler Temperature(s) °C and Other Remarks: 5.1		Sample Date		Sample Time		Matrix (W=water, S=solid, O=oil, BT=Tissue, A=Air)	



Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 490-111379-2
SDG Number: 506 International Blvd., Oakland, CA

Login Number: 111379

List Number: 1

Creator: Stvartak, Anthony Q

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-112117-1
Client Project/Site: 7-11 No. 37634 Tank Pull

For:
Stantec Consulting Corp.
3875 Atherton Road
Rocklin, California 95765-3716

Attn: Amanda Magee



Authorized for release by:
9/29/2016 10:08:44 PM

Heather Wagner, Project Manager I
(615)301-5763
heather.wagner@testamericainc.com

LINKS

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

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

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-112117-1	H3-13.5A	Solid	09/19/16 08:15	09/20/16 09:30
490-112117-2	H3-13.5B	Solid	09/19/16 08:20	09/20/16 09:30

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Case Narrative

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Job ID: 490-112117-1

Laboratory: TestAmerica Nashville

Narrative

**Job Narrative
490-112117-1**

Comments

No additional comments.

Receipt

The samples were received on 9/20/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Client Sample ID: H3-13.5A

Lab Sample ID: 490-112117-1

Date Collected: 09/19/16 08:15

Matrix: Solid

Date Received: 09/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Toluene	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Ethylbenzene	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Xylenes, Total	ND		0.00526		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Methyl tert-butyl ether	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Tert-amyl methyl ether	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
tert-Butyl alcohol (TBA)	ND		0.0439		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
1,2-Dibromoethane (EDB)	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Diisopropyl ether	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
1,2-Dichloroethane	ND		0.00175		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Ethyl tert-butyl ether	ND		0.00439		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
GRO (C4-C12)	ND		0.0877		mg/Kg		09/21/16 09:29	09/23/16 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 130				09/21/16 09:29	09/23/16 23:08	1
4-Bromofluorobenzene (Surr)	100		70 - 130				09/21/16 09:29	09/23/16 23:08	1
Dibromofluoromethane (Surr)	100		70 - 130				09/21/16 09:29	09/23/16 23:08	1
Toluene-d8 (Surr)	103		70 - 130				09/21/16 09:29	09/23/16 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.93		mg/Kg		09/28/16 09:25	09/28/16 13:41	1
Oil Range Organics (C20-C34)	ND		9.85		mg/Kg		09/28/16 09:25	09/28/16 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	110		50 - 150				09/28/16 09:25	09/28/16 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
PCB-1221	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
PCB-1232	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
PCB-1242	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
PCB-1248	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
PCB-1254	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
PCB-1260	ND		0.0330		mg/Kg		09/21/16 10:58	09/22/16 11:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	132		19 - 147				09/21/16 10:58	09/22/16 11:36	1
DCB Decachlorobiphenyl (Surr)	134		20 - 150				09/21/16 10:58	09/22/16 11:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.990		mg/Kg		09/21/16 11:39	09/21/16 21:57	1
Chromium	27.6		0.990		mg/Kg		09/21/16 11:39	09/21/16 21:57	1
Nickel	22.8		1.98		mg/Kg		09/21/16 11:39	09/21/16 21:57	1
Lead	3.52		0.990		mg/Kg		09/21/16 11:39	09/21/16 21:57	1
Zinc	16.6		9.90		mg/Kg		09/21/16 11:39	09/21/16 21:57	1

TestAmerica Nashville

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Client Sample ID: H3-13.5B

Lab Sample ID: 490-112117-2

Date Collected: 09/19/16 08:20

Matrix: Solid

Date Received: 09/20/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Toluene	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Ethylbenzene	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Xylenes, Total	ND		0.00576		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Methyl tert-butyl ether	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Tert-amyl methyl ether	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
tert-Butyl alcohol (TBA)	ND		0.0480		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
1,2-Dibromoethane (EDB)	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Diisopropyl ether	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
1,2-Dichloroethane	ND		0.00192		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
Ethyl tert-butyl ether	ND		0.00480		mg/Kg		09/21/16 09:29	09/23/16 23:40	1
GRO (C4-C12)	ND		0.0960		mg/Kg		09/21/16 09:29	09/23/16 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	09/21/16 09:29	09/23/16 23:40	1
4-Bromofluorobenzene (Surr)	98		70 - 130	09/21/16 09:29	09/23/16 23:40	1
Dibromofluoromethane (Surr)	100		70 - 130	09/21/16 09:29	09/23/16 23:40	1
Toluene-d8 (Surr)	100		70 - 130	09/21/16 09:29	09/23/16 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		4.84		mg/Kg		09/28/16 09:25	09/28/16 14:32	1
Oil Range Organics (C20-C34)	ND		9.67		mg/Kg		09/28/16 09:25	09/28/16 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	88		50 - 150	09/28/16 09:25	09/28/16 14:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1
PCB-1221	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1
PCB-1232	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1
PCB-1242	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1
PCB-1248	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1
PCB-1254	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1
PCB-1260	ND		0.0331		mg/Kg		09/21/16 10:58	09/22/16 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		19 - 147	09/21/16 10:58	09/22/16 11:51	1
DCB Decachlorobiphenyl (Surr)	140		20 - 150	09/21/16 10:58	09/22/16 11:51	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.994		mg/Kg		09/21/16 11:39	09/21/16 22:02	1
Chromium	24.2		0.994		mg/Kg		09/21/16 11:39	09/21/16 22:02	1
Nickel	36.5		1.99		mg/Kg		09/21/16 11:39	09/21/16 22:02	1
Lead	5.05		0.994		mg/Kg		09/21/16 11:39	09/21/16 22:02	1
Zinc	24.7		9.94		mg/Kg		09/21/16 11:39	09/21/16 22:02	1

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

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

Lab Sample ID: MB 490-372745/9

Matrix: Solid

Analysis Batch: 372745

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			09/23/16 22:37	1
Toluene	ND		0.00200		mg/Kg			09/23/16 22:37	1
Ethylbenzene	ND		0.00200		mg/Kg			09/23/16 22:37	1
Xylenes, Total	ND		0.00600		mg/Kg			09/23/16 22:37	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			09/23/16 22:37	1
Tert-amyl methyl ether	ND		0.00200		mg/Kg			09/23/16 22:37	1
tert-Butyl alcohol (TBA)	ND		0.0500		mg/Kg			09/23/16 22:37	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			09/23/16 22:37	1
Diisopropyl ether	ND		0.00200		mg/Kg			09/23/16 22:37	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			09/23/16 22:37	1
Ethyl tert-butyl ether	ND		0.00500		mg/Kg			09/23/16 22:37	1
GRO (C4-C12)	ND		0.100		mg/Kg			09/23/16 22:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		09/23/16 22:37	1
4-Bromofluorobenzene (Surr)	100		70 - 130		09/23/16 22:37	1
Dibromofluoromethane (Surr)	100		70 - 130		09/23/16 22:37	1
Toluene-d8 (Surr)	102		70 - 130		09/23/16 22:37	1

Lab Sample ID: LCS 490-372745/3

Matrix: Solid

Analysis Batch: 372745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05499		mg/Kg		110	70 - 130
Toluene	0.0500	0.05660		mg/Kg		113	70 - 130
Ethylbenzene	0.0500	0.05638		mg/Kg		113	70 - 130
Xylenes, Total	0.100	0.1087		mg/Kg		109	70 - 130
Methyl tert-butyl ether	0.0500	0.05150		mg/Kg		103	54 - 145
Tert-amyl methyl ether	0.0500	0.04614		mg/Kg		92	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.4465		mg/Kg		89	10 - 150
1,2-Dibromoethane (EDB)	0.0500	0.05275		mg/Kg		105	69 - 130
Diisopropyl ether	0.0500	0.06385		mg/Kg		128	68 - 134
1,2-Dichloroethane	0.0500	0.05093		mg/Kg		102	65 - 134
Ethyl tert-butyl ether	0.0500	0.05322		mg/Kg		106	19 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

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

Lab Sample ID: LCS 490-372745/7

Matrix: Solid

Analysis Batch: 372745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1.00	0.9578		mg/Kg		96	48 - 150

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 490-372745/4

Matrix: Solid

Analysis Batch: 372745

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.0500	0.05884		mg/Kg		118	70 - 130	7	37
Toluene	0.0500	0.05799		mg/Kg		116	70 - 130	2	40
Ethylbenzene	0.0500	0.05686		mg/Kg		114	70 - 130	1	38
Xylenes, Total	0.100	0.1077		mg/Kg		108	70 - 130	1	38
Methyl tert-butyl ether	0.0500	0.05263		mg/Kg		105	54 - 145	2	36
Tert-amyl methyl ether	0.0500	0.04774		mg/Kg		95	10 - 150	3	50
tert-Butyl alcohol (TBA)	0.500	0.5018		mg/Kg		100	10 - 150	12	50
1,2-Dibromoethane (EDB)	0.0500	0.05434		mg/Kg		109	69 - 130	3	17
Diisopropyl ether	0.0500	0.06548		mg/Kg		131	68 - 134	3	36
1,2-Dichloroethane	0.0500	0.05057		mg/Kg		101	65 - 134	1	16
Ethyl tert-butyl ether	0.0500	0.05422		mg/Kg		108	19 - 150	2	37

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
Toluene-d8 (Surr)	104		70 - 130

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

Lab Sample ID: MB 490-373708/1-A

Matrix: Solid

Analysis Batch: 373701

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 373708

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.00		mg/Kg		09/28/16 09:25	09/28/16 13:07	1
Oil Range Organics (C20-C34)	ND		10.0		mg/Kg		09/28/16 09:25	09/28/16 13:07	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl (Surr)	108		50 - 150	09/28/16 09:25	09/28/16 13:07	1

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

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

Lab Sample ID: LCS 490-373708/2-A

Matrix: Solid

Analysis Batch: 373701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 373708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	40.0	43.42		mg/Kg		109	54 - 130
Surrogate		LCS %Recovery	LCS Qualifier				Limits
<i>o</i> -Terphenyl (Surr)		116					50 - 150

Lab Sample ID: 490-112117-1 MS

Matrix: Solid

Analysis Batch: 373701

Client Sample ID: H3-13.5A

Prep Type: Total/NA

Prep Batch: 373708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		39.4	33.72		mg/Kg		76	10 - 142
Surrogate		MS %Recovery		MS Qualifier					Limits
<i>o</i> -Terphenyl (Surr)		86							50 - 150

Lab Sample ID: 490-112117-1 MSD

Matrix: Solid

Analysis Batch: 373701

Client Sample ID: H3-13.5A

Prep Type: Total/NA

Prep Batch: 373708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		38.5	28.88		mg/Kg		65	10 - 142	15	47
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
<i>o</i> -Terphenyl (Surr)		78							50 - 150		

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

Lab Sample ID: MB 490-371832/1-A

Matrix: Solid

Analysis Batch: 372059

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 371832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
PCB-1221	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
PCB-1232	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
PCB-1242	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
PCB-1248	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
PCB-1254	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
PCB-1260	ND		0.0333		mg/Kg		09/21/16 10:58	09/22/16 09:52	1
Surrogate		MB %Recovery		MB Qualifier			Prepared	Analyzed	Dil Fac
Tetrachloro- <i>m</i> -xylene		128					09/21/16 10:58	09/22/16 09:52	1
DCB Decachlorobiphenyl (Surr)		123					09/21/16 10:58	09/22/16 09:52	1

TestAmerica Nashville

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

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

Lab Sample ID: LCS 490-371832/2-A
Matrix: Solid
Analysis Batch: 372059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	0.333	0.2651		mg/Kg		80	60 - 137		
PCB-1260	0.333	0.2363		mg/Kg		71	56 - 141		
		LCS	LCS						
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	143		19 - 147						
DCB Decachlorobiphenyl (Surr)	134		20 - 150						

Lab Sample ID: LCSD 490-371832/24-A
Matrix: Solid
Analysis Batch: 372059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 371832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit	
PCB-1016	0.327	0.2202		mg/Kg		67	60 - 137		18	50	
PCB-1260	0.327	0.2016		mg/Kg		62	56 - 141		16	50	
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
Tetrachloro-m-xylene	123		19 - 147								
DCB Decachlorobiphenyl (Surr)	113		20 - 150								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 490-371881/1-A
Matrix: Solid
Analysis Batch: 372136

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.988		mg/Kg		09/21/16 11:39	09/21/16 20:49	1
Chromium	ND		0.988		mg/Kg		09/21/16 11:39	09/21/16 20:49	1
Nickel	ND		1.98		mg/Kg		09/21/16 11:39	09/21/16 20:49	1
Lead	ND		0.988		mg/Kg		09/21/16 11:39	09/21/16 20:49	1
Zinc	ND		9.88		mg/Kg		09/21/16 11:39	09/21/16 20:49	1

Lab Sample ID: LCS 490-371881/2-A
Matrix: Solid
Analysis Batch: 372136

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Cadmium	20.1	19.38		mg/Kg		97	80 - 120	
Chromium	80.3	79.80		mg/Kg		99	80 - 120	
Nickel	201	195.9		mg/Kg		98	80 - 120	
Lead	20.1	19.44		mg/Kg		97	80 - 120	
Zinc	201	188.9		mg/Kg		94	80 - 120	

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

GC/MS VOA

Prep Batch: 371744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	5030B	
490-112117-2	H3-13.5B	Total/NA	Solid	5030B	

Analysis Batch: 372745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	8260B	371744
490-112117-2	H3-13.5B	Total/NA	Solid	8260B	371744
MB 490-372745/9	Method Blank	Total/NA	Solid	8260B	
LCS 490-372745/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-372745/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-372745/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 371832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	3550C	
490-112117-2	H3-13.5B	Total/NA	Solid	3550C	
MB 490-371832/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-371832/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-371832/24-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 372059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	8082	371832
490-112117-2	H3-13.5B	Total/NA	Solid	8082	371832
MB 490-371832/1-A	Method Blank	Total/NA	Solid	8082	371832
LCS 490-371832/2-A	Lab Control Sample	Total/NA	Solid	8082	371832
LCSD 490-371832/24-A	Lab Control Sample Dup	Total/NA	Solid	8082	371832

Analysis Batch: 373701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	8015B	373708
490-112117-2	H3-13.5B	Total/NA	Solid	8015B	373708
MB 490-373708/1-A	Method Blank	Total/NA	Solid	8015B	373708
LCS 490-373708/2-A	Lab Control Sample	Total/NA	Solid	8015B	373708
490-112117-1 MS	H3-13.5A	Total/NA	Solid	8015B	373708
490-112117-1 MSD	H3-13.5A	Total/NA	Solid	8015B	373708

Prep Batch: 373708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	3550C	
490-112117-2	H3-13.5B	Total/NA	Solid	3550C	
MB 490-373708/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-373708/2-A	Lab Control Sample	Total/NA	Solid	3550C	
490-112117-1 MS	H3-13.5A	Total/NA	Solid	3550C	
490-112117-1 MSD	H3-13.5A	Total/NA	Solid	3550C	

TestAmerica Nashville

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Metals

Prep Batch: 371881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	3051A	
490-112117-2	H3-13.5B	Total/NA	Solid	3051A	
MB 490-371881/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-371881/2-A	Lab Control Sample	Total/NA	Solid	3051A	

Analysis Batch: 372136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-112117-1	H3-13.5A	Total/NA	Solid	6010B	371881
490-112117-2	H3-13.5B	Total/NA	Solid	6010B	371881
MB 490-371881/1-A	Method Blank	Total/NA	Solid	6010B	371881
LCS 490-371881/2-A	Lab Control Sample	Total/NA	Solid	6010B	371881

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Client Sample ID: H3-13.5A

Lab Sample ID: 490-112117-1

Date Collected: 09/19/16 08:15

Matrix: Solid

Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.70 g	5.0 mL	371744	09/21/16 09:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	372745	09/23/16 23:08	IMA	TAL NSH
Total/NA	Prep	3550C			25.37 g	1.00 mL	373708	09/28/16 09:25	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			373701	09/28/16 13:41	MDW	TAL NSH
Total/NA	Prep	3550C			30.28 g	10 mL	371832	09/21/16 10:58	MNM	TAL NSH
Total/NA	Analysis	8082		1			372059	09/22/16 11:36	MGH	TAL NSH
Total/NA	Prep	3051A			0.505 g	100 mL	371881	09/21/16 11:39	PG1	TAL NSH
Total/NA	Analysis	6010B		1			372136	09/21/16 21:57	ADN	TAL NSH

Client Sample ID: H3-13.5B

Lab Sample ID: 490-112117-2

Date Collected: 09/19/16 08:20

Matrix: Solid

Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.21 g	5.0 mL	371744	09/21/16 09:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	372745	09/23/16 23:40	IMA	TAL NSH
Total/NA	Prep	3550C			25.84 g	1.00 mL	373708	09/28/16 09:25	LOJ	TAL NSH
Total/NA	Analysis	8015B		1			373701	09/28/16 14:32	MDW	TAL NSH
Total/NA	Prep	3550C			30.14 g	10 mL	371832	09/21/16 10:58	MNM	TAL NSH
Total/NA	Analysis	8082		1			372059	09/22/16 11:51	MGH	TAL NSH
Total/NA	Prep	3051A			0.503 g	100 mL	371881	09/21/16 11:39	PG1	TAL NSH
Total/NA	Analysis	6010B		1			372136	09/21/16 22:02	ADN	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL NSH
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 7-11 No. 37634 Tank Pull

TestAmerica Job ID: 490-112117-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2938	10-31-16

The following analytes are included in this report, but are not certified under this certification:

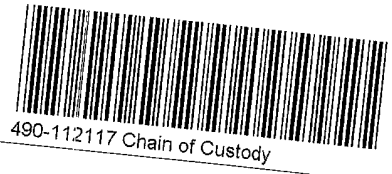
Analysis Method	Prep Method	Matrix	Analyte
8015B	3550C	Solid	Oil Range Organics (C20-C34)

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5030B	Solid	Diisopropyl ether



COOLER RECEIPT FORM



Cooler Received/Opened On 9/20/2016 @ 0930

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

- 1. Tracking # 6984 (last 4 digits, FedEx) Courier: FedEx _____
IR Gun ID 97310166 pH Strip Lot HC564992 Chlorine Strip Lot 012516A
- 2. Temperature of rep. sample or temp blank when opened: 3.5 Degrees Celsius
- 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)
- 4. Were custody seals on outside of cooler? YES...(NO)...NA
If yes, how many and where: _____
- 5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)
- 6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) HGG

- 7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)
Were these signed and dated correctly? YES...NO...(NA)
- 8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
- 9. Cooling process: (ice) Ice-pack Ice (direct contact) Dry ice Other None
- 10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA
- 11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA
- 12. Did all container labels and tags agree with custody papers? (YES)...NO...NA
- 13a. Were VOA vials received? YES...(NO)...NA
b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)
- 14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (initial) AD

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)
b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)
- 16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ED

- 17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA
- 18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA
- 19. Were correct containers used for the analysis requested? (YES)...NO...NA
- 20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ED

I certify that I attached a label with the unique LIMS number to each container (initial) ED

- 21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...# _____

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 490-112117-1

Login Number: 112117

List Source: TestAmerica Nashville

List Number: 1

Creator: Dawson, Keith M

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

