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1	Air Sparge And Soil Vapor Extraction and Dual-Phase Extraction Pilot Test Report

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# **AIR SPARGE AND SOIL VAPOR EXTRACTION AND DUAL-PHASE EXTRACTION PILOT TEST REPORTS**

**SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET  
PLEASANTON, CALIFORNIA**

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INCIDENT NO. 98995840  
AGENCY NO. RO0000360**

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## EXECUTIVE SUMMARY

- AS/SVE pilot testing was performed by sparging air into well AS-1 and extracting soil vapors from well SVE-5.
- The minimum optimal air flow rate of greater than 10 cubic feet per minute was not achieved during air sparging. Short-circuiting into the former tank pit and nearby well MW-4 was experienced during the pilot test work, and thus prevented vapor volatilized by air sparging from being effectively controlled with the SVE system.
- DPE testing was performed on wells EW-1 and EW-2.
- Due to the erratic flow patterns and noted varying radii of influence out to the various observation wells, CRA inferred that a significant amount of short-circuiting occurred during the testing on well AS-1 and EW-1. Soil vapor flow rates from well EW-2 were within acceptable operational parameters for a DPE system; however, the mass removal rates were not sufficient to warrant the construction of a remediation system on the site.
- DPE test results indicated successful dewatering was achieved in both wells used for DPE application; however, a significant water table drawdown and corresponding exposure of the saturated soil matrix for possible vapor extraction purposes could not be obtained by performance of DPE.
- The two major COCs in the dissolved-phase groundwater plume at the site are benzene and MTBE. The pilot test results indicated negligible mass recovery rates for these two constituents.
- Based on the results of these pilot tests, AS/SVE and DPE remedial technologies are not feasible remediation strategies for the site.
- Based on the results of the pilot test, in review of the current noted concentration levels of the COCs in the shallow soils and groundwater at the site and other remedial technologies potentially applicable for implementation at the site as presented in a previously submitted CAP, CRA recommends natural attenuation as the most prudent, cost-effective, and environmentally sustainable remedial strategy for the remaining residual COC impacts at the site.
- CRA believes that this site meets SWRQCB's low-threat closure policy requirements. On behalf of Shell, a low-threat closure request will be submitted under separate cover.

## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA), on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), prepared this report to summarize the results of remedial method pilot test work performed at the Shell-branded service station located at 4212 First Street, in Pleasanton, California. The work performed included pilot tests for air sparging (AS) in combination with soil vapor extraction (SVE), and dual-phase extraction (DPE).

For the AS/SVE pilot test work described in this report, CRA followed the scope of work and procedures presented in CRA's May 8, 2012 *Air Sparge/Soil Vapor Extraction Pilot Test Work Plan* and April 12, 2012 *Dual-Phase Extraction Pilot Test Work Plan* which were conditionally approved in ACEH's June 26, 2012 letter.

## 2.0 SITE BACKGROUND

This Shell-branded service station is located on the southeastern corner of the intersection of First Street and Vineyard Avenue, in a mixed residential and commercial area of Pleasanton, California (Figure 1). The site layout includes three current fuel underground storage tanks (USTs), a former fuel UST complex, two fuel dispenser islands, a former waste oil UST, and a station building (Figure 2).

A summary of previous work performed at the site and additional background information is presented in Appendix A.

### 2.1 GEOLOGY AND HYDROGEOLOGY

According to the *Evaluation of Ground Water Resources: Livermore and Sunol Valleys* (California Department of Water Resources [DWR] Bulletin No. 118-2, June 1974), the site is located in the Bernal sub-basin of the Livermore Valley groundwater basin. Streams draining Livermore Valley merge in the Bernal sub-basin and then leave the valley as Arroyo de la Laguna.

Sediments below the site are inter-layered clays, silts, and sands with occasional gravel lenses to the total explored depth of approximately 108 feet below grade (fbg). DWR Bulletin No. 118-2 indicates that surface soils extend to 110 fbg in the area of the site and that water-bearing materials below these shallow sediments are comprised of the valley-fill materials. These materials are present as a sequence of sandy gravel and

sandy clayey gravel aquifers up to 100 feet in thickness. The aquifers are separated by silt and clay confining beds up to 30 feet in thickness.

### **2.1.1 GROUNDWATER DEPTH AND FLOW DIRECTION**

The depth to first-encountered groundwater typically ranges between 31 to 34 fbg. A groundwater contour map for the second quarter 2012 groundwater monitoring event is included as Figure 3. As illustrated on Figure 3, the groundwater flow direction for the site is predominantly toward the north-northwest, which is consistent with historical groundwater flow direction.

### **2.1.2 GROUNDWATER**

The California State Water Resources Control Board's (SWRCB's) Geotracker website file for the environmental case at this site states that the groundwater at this site is considered a "drinking water supply"; however, the Site and neighboring properties receive potable water from the City of Pleasanton.

## **2.2 EXTENT OF PETROLEUM-HYDROCARBON IMPACT**

### **2.2.1 DELINEATION OF IMPACTED SOIL**

Concentrations of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX) in the vadose zone soils exceeding the applicable San Francisco Bay Regional Water Quality Control Board's environmental screening levels (ESLs)<sup>1</sup> for soil, where groundwater is a potential source of drinking water with commercial land use, have been found beneath the former dispensers, product piping, and the former UST tank pit, in the area around MW-4. Vadose zone soil samples from other borings, drilled both on- and off-site, have not contained TPHg or BTEX concentrations exceeding ESLs. Fuel oxygenates have not been detected at concentrations exceeding ESLs in soil samples. The soil impacts observed at or below the soil/water interface are likely representative of groundwater impact. Thus, impacted vadose zone soil is adequately delineated horizontally to below ESLs and appears to be confined to area of the former UST complex.

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<sup>1</sup> *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008].*



### **2.2.2 DELINEATION OF IMPACTED GROUNDWATER**

Currently, there are four shallow monitoring wells (with screened intervals from 20 to 35, 26 to 46, 37 to 47, and 37.5 to 57.5 fbg) and one deeper groundwater monitoring well (screened from 100 to 108 fbg) located on site. The hydrocarbon plume in groundwater is adequately delineated down gradient to the north and northwest by wells at the 76 Station at 4191 First Street, Pleasanton.

## **3.0 AS AND VAPOR EXTRACTION WELL INSTALLATIONS**

To facilitate the pilot test work planned, supplemental sparging, extraction, and observation/monitoring wells were required to be installed, as discussed in additional detail below. CRA followed the scope of work and procedures presented in the May 8, 2012 *Air Sparge/Soil Vapor Extraction Pilot Test Work Plan* and April 12, 2012 *Dual-Phase Extraction Pilot Test Work Plan*, which were conditionally approved in ACEH's June 26, 2012 letter.

The AS and extraction wells were placed in areas of and at depth intervals of inferred highest COC impacts based on previous assessment work performed by CRA and others at the site, and based on field observations made and screening results obtained as the boring for each well was drilled. The locations of the particular wells are as illustrated on Figures 2 and 3.

### **3.1 PERMIT**

To facilitate the installation of the required wells, CRA obtained a drilling permit from Zone 7 Water Agency (Appendix B).

### **3.2 DRILLING DATES**

August 20 through 22, 2012.

### **3.3 DRILLING COMPANY**

Gregg Drilling and Testing, Inc.

### **3.4 CRA PERSONNEL**

Environmental scientist Cristina Arganbright directed the drilling activities under the supervision of California Professional Geologist Peter Schaefer.

### **3.5 DRILLING METHOD**

Hollow-stem auger.

### **3.6 NUMBER OF BORINGS**

Six soil borings were drilled and converted to one AS well (AS-1) and one SVE well (SVE-5), two extraction wells (EW-1 and EW-2), and two piezometers (P-1 and P-2).

The boring and well specifications and soil types encountered are described on the boring logs, presented as Appendix C. The well locations are shown on Figure 2.

### **3.7 BORING DEPTHS**

22 to 48 fbg.

### **3.8 GROUNDWATER DEPTHS**

Groundwater was initially measured at 33.42 to 34.55 fbg in wells AS-1, P-2, and EW-2 on August 31, 2012. Wells EW-1 and P-1 were dry.

### **3.9 SOIL CHEMICAL ANALYSIS**

Selected soil samples from the well borings were analyzed for TPHg, BTEX, methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA) by EPA Method 8260B. The soil chemical analytical data are summarized in Table 1.

### 3.10 WASTE DISPOSAL

Soil and sludge generated during field activities were stored on site in 55-gallon drums, sampled, and profiled for disposal. Waste disposal confirmation documentation is pending and will be provided by CRA upon request. The laboratory analytical report for the waste samples is presented in Appendix D.

### 4.0 AS AND SVE PILOT TEST

AS and SVE are common remediation technologies used to address gasoline fuel impacts at UST sites and are most effective in moderate to high permeability soils. AS involves introducing air into the saturated soil matrix by applying pressurized air to an injection well to introduce air flow into the formation and strip and volatilize COCs (primarily hydrocarbons) from the saturated and capillary fringe areas of the shallow soil horizon and groundwater. AS also promotes the aerobic biodegradation of hydrocarbons in the groundwater and soil horizon by increasing the oxygen concentration levels in the subsurface. SVE involves applying a vacuum to extraction wells to extract COC-bearing vapors from the vadose zone and capillary fringe area. SVE also captures the COC-bearing vapors stripped by AS. Extracted vapors are typically treated by granular activated carbon, catalytic or thermal oxidizers, or internal combustion engines.

The objective of the AS/SVE pilot test was to determine if AS/SVE is a viable remedial technology for potential application at the site and to obtain design information for potential remedial system implementation. The specific goals of the AS/SVE pilot test were to:

1. Determine if sufficient air (e.g. a minimum of 10 actual cubic feet per minute [acfm]) can be introduced and adequately dispersed into and through the target area (i.e., suspected area of highest COC impacts on site);
2. Determine the optimal air injection flow rate and corresponding application pressure;
3. Determine the magnitude and duration of extracted COC vapor concentrations in vapor extraction wells using initially SVE alone and then utilizing SVE in combination with AS within the target area; and
4. Determine if remaining residual COC impacts on site could be effectively mitigated with AS/SVE remedial methodologies.

#### **4.1        TEST EQUIPMENT**

A Mako Industries, Ltd AS trailer with a rotary screw air compressor capable of providing 28 cubic feet per minute (cfm) and 125 pounds per square inch (psi) was used for conducting the AS portion of the AS/SVE pilot test. An air hose was attached to the injection well from an existing manifold. Rotameters were mounted on the manifold to measure air flow. A Solleco model 300 trailer-mounted SVE unit with a 25-horsepower liquid-ring pump and a thermal catalytic oxidizer for vapor treatment was used for the SVE portion of the AS/SVE pilot test. A 125 kilo-volts amperes trailer-mounted portable diesel generator was used to power the AS and SVE equipment. Propane was used as an auxiliary fuel for the thermal oxidizer

Field volatile organic compound (VOC) vapor concentrations were measured with a Horiba Model MEXA554J organic vapor analyzer (OVA) calibrated to a hexane standard and a MiniRAE photoionization detector (PID) calibrated to an isobutylene standard. Extracted vapor samples were collected in one-liter Tedlar® bags using a Gast rotary-vane sample pump. The vacuum at the manifold, the vacuum applied to the extraction wellheads, and induced pressure or vacuum in observation wells were measured with a Dwyer digital manometer. A TSI thermo-anemometer was used to measure vapor extraction flow rates and temperature. A magnehelic gauge was used to determine both the pressure and the vapor flow rates at the positive side of the blower. A Solinst water-level meter was used to measure depth to groundwater in all test and observation wells. YSI 600 XLM multi-parameter meters were used to measure dissolved oxygen (DO) and oxidation reduction potential (ORP). Level Troll pressure transducers were used to measure and record in-situ groundwater levels. Helium concentrations were monitored using a Marks Product inline helium detector when helium tracer gas was introduced into the AS system near the end of the AS/SVE testing process.

#### **4.2        TEST PROCEDURE**

On September 11, 2012, CRA initially performed AS/SVE pilot testing at the site. Due to meter calibration problems, CRA cancelled the remainder of the pilot test work on this day. CRA staff returned to the site on the following day (September 12, 2012) and completed the AS/SVE pilot test work. The collected field data and analytical laboratory results obtained are summarized and presented in Tables 2A through 5.

The approved AS/SVE work plan intended that the pilot test work would be run on a 12- to 24-hour basis. The actual length of the constant rate test was to depend on the AS

and SVE testing results. However, as first determined during the well installation work necessary for performing the AS/SVE and DPE pilot tests, City of Pleasanton noise ordinance requirements (as interpreted by the City police) prevented the use of AS/SVE equipment from the hours of 7:00 p.m. to 8:00 a.m. Thus the AS/SVE could not be run more than a 10 hour period, and not allowed to operate overnight. However, CRA staff judged that extended AS/SVE pilot testing was not warranted as VOC vapor concentrations did not rise or fall by an order of magnitude and were relatively stable, there was relatively stable SVE extraction flow rates (and corresponding applied vacuum rates) noted during testing, and relatively stable radius of influence (ROI) measurements were noted.

During the AS/SVE test work performed, CRA completed a two incremental step and a constant rate application for the AS portion of the test. CRA performed AS step tests on the initial day of testing, and a threshold for effective AS air flow application was established as greater than 25 psi. During the test, pressurized air was injected into well AS-1 and vapors were extracted from well SVE-5. CRA utilized wells EW-1, EW-2, P-1, P-2, SVE-3, SVE-4, and MW-4 as observation wells to monitor concentrations, induced vacuums, changes in depth to water, and induced pressures.

Prior to testing, CRA collected vapor samples and static depth to groundwater (DTW) measurements from wells SVE-5, EW-1, EW-2, P-1, P-2, SVE-3, and SVE-4.

CRA systematically increased (stepped) the AS injection pressure to determine the maximum possible air sparge flow rate into the soil formation in the target area. The initial injection pressure was set at 25 psi (the pressure at which air flow was initially observed to facilitate air dispersion. The pressure was then incrementally increased up to the calculated maximum injection pressure, being established as 75 percent (%) of the overburden pressure, which was determined to be 44 psi. Based on this calculated maximum pressure CRA staff did not exceed an applied pressure of 40 psi in order to protect against potential fracturing of the soil formation within the target area. The target injection pressure range for these tests was thus established as 25 to 40 psi. Air flow was monitored at each applied pressure interval.

During AS testing, vapor extraction was induced within the target area by performing SVE extraction on well SVE-5. Hydrocarbon vapor concentrations were periodically field-measured from the extraction well and observation wells during the AS/SVE work performed. Vapor samples were collected during each step test and at specified intervals during the constant rate testing for laboratory analysis to assess concentration levels of extracted COCs and to compare with field VOC concentrations measured in the field with the OVA and PID.

DTW in the observation and extraction wells was measured periodically during testing.

During the test, CRA conducted a helium tracer test for approximately 1 hour to assess the distribution and recovery of injected air. Helium gas was added to the injected air at a concentration of approximately 4% of the SVE flow rate; helium concentrations were periodically measured from the AS manifold and in the observation wells.

#### **4.3        DATA COLLECTION AND SAMPLING**

CRA collected AS/SVE system data on prepared field forms at approximate 30-minute intervals during step testing and at approximate 30- to 60-minute intervals during the constant rate testing.

CRA collected initial (i.e., pre-pilot test work) soil vapor samples from all observation and extraction wells involved in the pilot test work. These vapor samples were collected and analyzed to establish the background hydrocarbon vapor concentrations present in proximity to these wells. Static DTW was also collected from all test and observation wells prior to testing. Additional vapor samples were collected from all wells during the midpoint and end of the testing. Vapor samples from the extraction well (collected near the well head and labeled Infl-1) and from the positive side of the blower after dilution air (Infl-2) were collected during each step test and at the beginning, approximate middle, and end of the constant-rate test. As previously stated, field instruments were used to record water level data, recovered vapor concentrations and flow rates, and induced pressure or vacuum from observation wells. DO and ORP were measured from observation wells MW-4 and EW-2, and helium concentrations were measured from wells P-1, EW-1, SVE-3, SVE-4, EW-2, P-2, MW-4, and SVE-5. Appendix E includes copies of the test field data sheets completed as part of the pilot testing work. Tables 2A and 2B summarize the AS and observation well data collected during the AS/SVE pilot test work.

Collected vapor samples were analyzed for TPHg by EPA Method 8260 and for BTEX and MTBE by EPA Method 8260B (M). Table 3 presents the results of the laboratory analysis. Appendix D includes the laboratory analytical reports.

#### 4.4 RESULTS

The AS/SVE pilot test was initially started on September 11, 2012 and completed on September 12, 2012. Table 4 presents SVE operational data collected and analytical results obtained, and corresponding calculated mass removal rates obtained. Table 5 presents the helium tracer test data collected.

**AS Applied Pressure and Flow:** CRA increased air injection pressures in steps of 25 and 40 psi. A sparge flow rate of 4 acfm was achieved at an injection pressure of 25 psi; an average sparge flow rate of approximately 8.0 cfm was achieved at the maximum permissible injection pressure of approximately 40 psi. No sparge air flow was observed at an injection pressure below 25 psi as indicated by the previous day's work. Figure 4 illustrates the changes in sparge pressure during the test along with SVE flow and influent hydrocarbon concentrations.

**Induced Vacuum and Pressure:** CRA observed induced pressure or vacuum at wells SVE-3, SVE-4, P-2, and EW-2 during the test. Wells SVE-4 and EW-2, closest to extraction well SVE-5, indicated induced vacuums ranging from approximately 13 to 18 inches of water column (inWC). Wells SVE-3, P-2, and EW-1 also indicated induced vacuums during the AS/SVE pilot test ranging from approximately 2.5 to 3.8 inWC, 1.2 to 2.5 inWC, and 0.6 to 1.2 inWC, respectively. One minor detection (0.6 inWC) of vacuum was noted in well P-1, but is not likely indicative of true vacuum influence from the extraction on well SVE-5. Well MW-4 did show an increase in pressure during the test ranging from approximately 2.0 to 5.8 inWC (0.07 to 0.21 psi). This pressure presence noted in the well is indicative of a probable preferential pathway between injection well AS-1 and MW-4, resulting in short-circuiting between the two wells. It was also noted that the rubber seal for the wellhead fitting for the transducer cable was pushed out from the resulting pressure in the well, and it is inferred this was the reason for the lack of pressure or vacuum readings noted on this well during the majority of the testing period.

**SVE Vacuum and Flow:** The applied vacuum on extraction well SVE-5 during the step testing portion of the AS/SVE testing work ranged from approximately 46 to 103 inWC with corresponding extracted soil vapor flow rates ranging from approximately 118 to greater than 165 scfm. (standard cubic feet per minute; 165 scfm exceeding the limits of the thermo-anemometer). During the constant rate testing, applied vacuums to well SVE-5 ranged from 96.3 to 98.5 inWC with resulting extracted soil vapor flow rates which exceeded the limits of the thermo-anemometer, and were assumed to range from approximately 165 to 167 scfm for mass calculation purposes (with minor deviations as the result of minor changes in extracted vapor temperature). However, the flow rate

after the blower was measured utilizing the magnehelic gauge, with estimated vapor flow rates ranging from approximately 185 to 207 scfm. Figure 4 presents the vapor extraction flow rate over the course of the AS/SVE test.

**Vapor Concentrations and Calculated Mass Removal Rates:** Field-measured VOC concentrations in the extracted vapor stream from the wellhead of SVE-5 (Infl-1) indicated a slight declining trend from approximately 926 to 625 parts per million volume (ppmv), and then a slight increasing trend from 625 to 1,083 ppmv over the course of the testing work conducted on September 12, 2012 (Table 4). The corresponding analytical results of the periodic sampling of Infl-1 during this same period indicated a general decline in TPH-g concentrations from 1,000 to 370 ppmv, only negligible benzene concentrations ranging from below method reporting limits to 1.3 ppmv, and no MTBE detected above method reporting limits. Field measurement of the extracted vapor stream at Infl-2 (at a point of the positive side of the blower [i.e. post blower and any dilution air added to the vapor stream prior to thermal destruction]) indicated field measured vapor concentrations ranging from 765 to 1,365 ppmv with no apparent trend. The corresponding analytical results of the periodic sampling of Infl-2 during this same period indicated a slight increasing trend from 550 to 1,100 ppmv, only negligible benzene concentrations ranging from 0.91 to 1.7 ppmv (with no apparent trend), and no MTBE detected above method reporting limits. The minor increase in field measured and TPH-g concentrations when comparing Infl-1 (at the well head) to Infl-2 (post blower) could not be readily explained, but is not a significant difference warranting further assessment or investigation.

As described above, the flows at the Infl-1 sampling port exceeded the measuring capability of the thermo-anemometer. CRA is utilizing the higher concentrations and flows as measured in the Infl-2 sampling port to determine the amount of VOC mass removed, as TPHg, benzene, and MTBE. Using Infl-2 sample results and vapor flow rates, over the duration of the AS/SVE testing period (approximately 8.8 hours), a total of 20.0 pounds of TPHg mass was removed, at a mass removal rate ranging from 35.9 to 85.0 pounds per day (ppd), with an averaged mass removal rate of 54.6 ppd; and 0.027 pounds of benzene mass removed, at mass removal rates ranging from 0.052 to 0.100 ppd, with an averaged mass removal rate of 0.075 ppd. As noted above, MTBE concentrations were not detected above the method reporting limit. To estimate the maximum potential MTBE mass removal rate, the method reporting limit for the samples collected was utilized in the MTBE mass calculations. Using this approach, up to 0.013 pounds of MTBE mass was removed, at mass removal rates up to 0.031 to 0.038 ppd, with an averaged mass removal rate of less than 0.036 ppd.



Table 3 summarizes the laboratory analytical data obtained, Table 4 summarizes the SVE operational data, and Figure 4 illustrates the field-measured Infl-2 field measured VOC and analytical sample TPHg vapor-concentration trends over the course of the test.

A decrease in TPHg concentrations was also detected in observation wells EW-2 and SVE-4 during pilot testing (Table 3). Wells P-2 and SVE-3 showed detections of TPHg the day before the pilot test, but no concentrations were detected during the pilot test itself. All other wells showed no detections of petroleum hydrocarbons or fuel oxygenates except for well MW-4. A sample was collected from this well at the end of the test even though the screen was submerged (and likely was not influenced from performance of the limited amount of AS/SVE testing). The TPHg and MTBE concentrations in the sample collected from well MW-4 were 550 and 18 ppmv, respectively.

**Water Levels:** Prior to the test, the static depths to water in wells MW-4, P-2, SVE-5, and EW-2 were approximately 34.12, 34.02, 31.91, and 34.10 feet below grade (fbg), respectively. Figure 6 shows the DTW measurements versus time. The maximum mounding observed was approximately 12.8 feet in MW-4. As discussed above, a preferential pathway between AS-1 and MW-4 is likely the cause of this significant water level rise in MW-4 (mounding). Well EW-2 experienced inferred mounding of 1.38 feet. Wells SVE-5 and P-2 showed increases in groundwater levels of 0.46 and 0.567 feet, respectively. These changes in depth to groundwater do not show the same short circuiting as in well MW-4. The mounding noted could result in migration of the dissolved-phase plume outside its current area should the level of mounding not be adequately controlled and monitored.

**Bio-Parameters:** Table 2A presents the DO and ORP data collected during the AS/SVE test for observation wells EW-2 and MW-4 performed on September 12, 2012. Figure 7 illustrates this data versus time. The DO data collected on September 10, 2012 (the day before any air sparging or SVE occurred) showed DO levels in EW-2 and MW-4 of 4.29 and 2.91 milligrams per liter (mg/L), respectively. Well MW-4 DO concentrations closely match those collected on May 23, 2012 of 1.44 mg/L as reported in the site quarterly monitoring report. Air sparging activities on September 11, 2012 caused elevated levels of DO to remain in groundwater. CRA measured DO levels prior to the AS/SVE test on 9/12/13 in EW-2 and MW-4 to be 7.05 and 11.02 mg/L. The levels of DO show some minor increases in wells EW-2 and MW-4 of 7.22 and 10.94 mg/L, respectively, immediately prior to air sparging; and increases to 9.26 and 12.5 mg/L respectively, at the end of the first step test. DO in EW-2 increased to 11.11 during the second step test. The final reading in well EW-2 was 11.31 mg/L. DO achieved a brief maximum of 21.23 mg/L in well MW-4 at the beginning of the second step test before

decreasing to 14.27 at the end of the test. No further readings in the last 3 hours of the test could be gathered due to a failure of the YSI meter. CRA interprets that the significant and rapid increase in DO levels is likely caused by short-circuiting of air flow in the formation. The rate of DO levels changes would typically occur at a slower rate and over a longer period of time in a saturated soil horizon consisting of predominately silts and clays with some minor sand and gravel lenses.

**Helium Tracer Test:** During the test, CRA injected helium into the AS line from 3 pm to 6 pm. The helium was used to act as a tracer and to correlate how much of the soil vapor removed by SVE was related to sparged air. Injection was relatively constant excluding a time period needed as helium vessels were changed out. Table 5 summarizes the helium flow rates and helium concentrations observed in the injected air flow and in the observation wells. During the helium tracer test, helium was monitored at the AS manifold and in wells EW-2, SVE-5, SVE-3, SVE-4, P-2, P-1, and EW-1. A moderate percentage of helium was recovered at the SVE system influents (SVE-5 and INF-2 helium measurements), which indicates that sparged air was captured by SVE. Helium was also detected in the observation wells, indicating that the capture zone of the SVE was not sufficient to capture all soil vapors and sparged air released by AS.

## 5.0 AS/SVE CONCLUSIONS AND RECOMMENDATIONS

The following limitations were identified during the AS/SVE pilot test:

- The minimum optimal air flow of 10 acfm could not be reached without exceeding the maximum pressure of 40 psi.
- With the preferential pathway noted between AS-1 and MW-4, and the varying amounts of helium tracer gas being captured by the SVE system and showing up in the observation wells, (with no definitive pattern noted), sparged VOCs would likely not be effectively controlled. The noted short-circuit would likely prevent SVE from successfully capturing all fugitive emissions generated from AS application.

The AS/SVE pilot test data indicates the following:

- The minimum desirable AS flow rate of 10 acfm was not achieved at the maximum permissible (based on calculations utilizing particulars of the soil formation and water levels experienced) injection pressure of 40 psi. Moreover, at 40 psi, the short-circuiting was inferred to be occurring between AS-1 and

MW-4, and would likely prevent capture of VOCs that could practicably be released during air sparging, which would likely result in fugitive vapor emissions and migration.

- The significant amount of mounding noted resulting from the necessary pressure needed to apply the minimum desired AS flow may lead to an expansion of a currently stable dissolved COC plume into non-impacted areas of the site.
- The increase in TPHg vapor concentrations as a result of air sparging application in the inferred area of highest residual hydrocarbon mass impacts was noted, but was not at a significant enough level that would typically warrant AS/SVE application to meet the remedial objectives of the site. The mass recovery potential and rates of recovery of the two main COC (benzene and MTBE, at averaged rates of 0.075 ppd, and 0.036 ppd, respectively) were negligible and further affirm that AS/SVE application would not be a prudent, cost-effective, or environmentally sustainable choice for addressing the residual mass of these particular COCs.

In summary, the results of the AS/SVE test indicate that AS/SVE is marginally technologically viable at the site. The relative low mass recovery noted and the potential short-circuiting and mounding problems noted, would indicate that AS/SVE is not a prudent, cost-efficient, or environmentally sustainable technology recommended to be employed at the site.

## 6.0 DPE PILOT TEST

The specific objectives of the DPE portion of the pilot test work were to determine:

1. Determine groundwater yield utilizing vertical extraction wells;
2. Determine if sufficient drawdown of the water table in proximity to the extraction well could be obtained to expose any remaining residual hydrocarbons in the saturated soil matrix within the target area;
3. Determine the required applied vacuum and corresponding extraction flow rate obtained to induce mass removal, and determine corresponding ROI from each extraction well within the target area under the applied vacuum and corresponding extracted soil vapor flow rate;
4. Determine the magnitude and duration of extractable COC vapor concentrations and corresponding COC mass removal rates; and
5. Determine if remaining residual COC impacts on site could be effectively mitigated with DPE remedial technology.

The DPE pilot test was performed using extraction wells EW-2 and EW-1. Monitoring wells SVE-3, SVE-4, SVE-5, MW-4, P-2, and P-1 were utilized as observation wells; EW-1 and EW-2 were used as observation wells when not utilized for extraction purposes during pilot testing. The primary extraction and observation well configuration was as follows:

<i>Extraction Well</i>	<i>Observation wells</i>
EW-2	MW-4, SVE-3, SVE-4, SVE-5, P-1, P-2, and EW-1
EW-1	MW-4, SVE-3, SVE-4, SVE-5, P-1, P-2, and EW-2

## 6.1 TEST EQUIPMENT AND PROCEDURES

CRA performed a DPE vacuum step test followed by a constant vacuum rate test on well EW-2 on September 13, 2012. A step and constant rate test was performed utilizing DPE on well EW-1 on September 14, 2012. The DPE work plan called for the DPE tests to last between 24 to 36 hours on each of the two extraction wells, operating on a continuous mode, with the length of tests depending on the results obtained. Due to the noise ordinance limitations interpreted by the City of Pleasanton Police Department, the tests were limited to the hours of 8:00 a.m. to 6:00 p.m. The initial results of the testing work indicated negligible groundwater yield, relatively low mass removal rates, and relatively stable vacuum and flow rates and ROI readings. Based on this information, and the information gathered from the previous AS/SVE testing, the reduced duration of the DPE testing was judged by CRA staff to be of adequate length to obtain the information needed regarding the viability of DPE technology application to the site. Thus CRA considered further duration of the DPE testing period to not provide any supplemental relevant data.

These DPE tests were performed using an electric submersible pump to dewater the well under extraction. The submersible pump extracted groundwater at the rate the formation would yield. A vacuum was applied to the respective test well to extract soil vapor and potentially increase groundwater recovery. During the step test, the vacuum applied to the extraction well was systematically increased (stepped) to determine the optimum applied vacuum that would yield the highest mass removal rate. The constant rate vacuum test was performed using data gathered from the step test on each of the respective wells.

The critical components for DPE testing included an extraction device, water storage, and a vapor abatement device. A Solleco model 300 trailer-mounted SVE unit with a 25-horsepower liquid-ring pump and a thermal catalytic oxidizer (TCAT) for extracted vapor treatment was used for SVE. A 125 kilo-volts amperes trailer-mounted portable diesel generator was used to power the SVE equipment. Propane was used as an auxiliary fuel for the TCAT.

During the test, CRA measured parameters of elapsed time, groundwater extraction volume and flow rates, applied wellhead vacuum, VOC concentrations in extracted vapor, vapor flow rates, and induced vacuum at the observation wells. A TSI thermo-anemometer was used to measure vapor flow rates and temperature. A magnehelic gauge was used to determine both the pressure and the vapor flow rates at the positive side of the blower. A manometer was used to measure the vacuum applied at the extraction wellhead and induced vacuum in the observation wells. Water level in the respective wells was measured from the surface using a water level indicator probe, and in-situ using pressure transducers.

Both a Horiba OVA (calibrated to a hexane standard) and a MiniRAE 3000 PID (calibrated to an isobutylene standard) were used to measure hydrocarbon vapor concentrations from the extraction wells in the field. A Thomas Industries vacuum pump was used to collect soil vapor samples in one-liter Tedlar® bags for laboratory analysis to compare with field measurements. Soil vapor samples were collected in Tedlar® bags at the wellhead (Infl -1) and at the "pressure side" sample port (Infl-2) of the SVE unit (prior to be introduced into the thermal oxidizer) during the pilot test. The collected soil vapor samples were handled under chain-of-custody protocol and analyzed for TPHg, BTEX, and MTBE concentrations by EPA Method 8260B, at TestAmerica Laboratories, Inc. in Irvine, California (TestAmerica). Samples of the groundwater extracted from wells EW-1 and EW-2 were collected prior to discharge into the storage tank. The collected samples were submitted to TestAmerica under chain-of-custody protocol and were analyzed for TPHg, BTEX, and MTBE concentrations by EPA Method 8260B.

## **6.2 PILOT TEST RESULTS**

CRA monitored groundwater drawdown and flow rates, vacuum and pressure readings at the system and in the well field, vapor flow rates, and concentrations of gasoline constituents in groundwater and soil vapor during each step and constant vacuum test. These results are presented in Tables 6, 7, 8, and 9 and discussed below.

## 6.2.1 GROUNDWATER MONITORING, YIELD/EXTRACTION, AND MASS REMOVAL DATA

Groundwater drawdown in the observation wells ranged from 0 to 0.84 ft. Specific drawdown measurements and mass removal data are discussed below.

### 6.2.1.1 DPE FROM WELL EW-2

As illustrated in the table below, SVE-5, located 8 feet from extraction well EW-2, demonstrated the greatest response to dewatering of the aquifer as the result of DPE application on well EW-2. Well MW-4 demonstrated only half of the drawdown seen in SVE-5, with well MW-4 being located 9.7 feet from well EW-2. The drawdown recorded in well P-2 during the DPE testing on well EW-2 was 0.22 feet. It should be noted that this minor logged drawdown could also have been attributed to normal daily fluctuations in the water table, and not directly influenced by DPE application.

<i>Extraction Well (EW-2)</i>	<i>Observation Wells</i>		
	MW-4	SVE-5	P-2
Maximum Drawdown	0.41	0.84	0.22
Distance from EW-2	9.7	8.0	19.1

The collected groundwater drawdown data are summarized in Table 6. Transducer data was used in lieu of manual depth to water readings in wells MW-4 and SVE-5.

Groundwater removal rates ranged from 0.02 to 0.48 gallons per minute (gpm) from EW-2. A total of 46.2 gallons was removed during the 7.75 hours of DPE pilot testing on EW-2, resulting in an averaged extraction rate (or groundwater yield under vacuum) of approximately 0.1 gpm, which equates to approximately 143 gallons of recovery potential per day.

Pre- and post DPE pilot test work concentrations of dissolved-phase TPHg and MTBE in well EW-2 ranged from 3,600 to 3,800 micrograms per liter ( $\mu\text{g/L}$ ) and from 3,400 to 4,100  $\mu\text{g/L}$ , respectively. The groundwater extraction portion of the DPE testing recovered approximately 0.0014 and 0.0016 pounds (lb) of TPHg and MTBE mass, respectively. Benzene concentrations above method reporting limits were not detected in the samples collected from the water extracted from well EW-2.

The maximum drawdown observed in the observation wells versus their distance from the extraction well is graphically presented in Figure 8. Field data sheets are included as Appendix E. The certified laboratory analytical reports are included in Appendix D.

**6.2.1.2 DPE FROM WELL EW-1**

As seen in the table below, drawdown in all wells was less than 0.28 feet. EW-1 was screened much higher than the aquifer in hopes of targeting a perched aquifer near the former tank pit. Drawdown is likely due to daily fluctuations in the water table, and most likely not from effects of DPE on EW-1.

<i>Extraction Well (EW-1)</i>	<i>Observation Wells</i>			
	EW-2	MW-4	SVE-5	P-2
Max Drawdown	0.22	0	0.21	0.28
Distance from EW-1	30.0	22.0	35.5	9.5

The collected groundwater drawdown data are summarized in Table 6.

Groundwater removal rates ranged from 0.0 to 0.05 gallons per minute (gpm) from EW-1. A total of 5.0 gallons was removed during the 7.75 hours of DPE pilot testing on EW-1, resulting in an averaged extraction rate (or groundwater yield under vacuum) of approximately 0.01 gpm, which equates to approximately 16 gallons of recovery potential per day.

Concentrations of dissolved-phase TPHg and benzene in EW-1 ranged from 0 to 1,600 µg/L and from 0 to 3.8 µg/L, respectively. Concentrations of dissolved-phase MTBE in EW-1 ranged from 3.6 to 36 µg/L. Based on the groundwater extraction rates obtained, DPE recovered negligible (less than 0.0001 pounds) of TPHg, benzene, or MTBE mass from the recovered groundwater removed during the DPE pilot test work conducted on EW-1. The groundwater production and mass removal data are presented in Table 7.

Field data sheets are included as Appendix E. The certified laboratory analytical reports are included in Appendix D.

## 6.2.2 SVE MONITORING AND MASS REMOVAL DATA

CRA monitored pressure and vacuum readings from the SVE system, the extraction wells, and the observation wells. VOC vapor concentrations were measured during step and constant rate extraction tests on wells EW-1 and EW-2. As previously discussed, vapor flow rates were measured at the wellhead (Infl-1) and after the blower (Infl-2). CRA also periodically measured the induced vacuum at nearby observation wells to determine the vacuum ROI. Individual well monitoring data are described below.

SVE monitoring data and mass removal calculations are presented in Tables 8A (Infl-1 measured flow rates and concentrations) and Table 8B (Infl-2 measured flow rates and concentrations). Measured vacuums in the observation wells during the two DPE tests, and calculated ROI from SVE operation, are summarized in Table 9. The applied casing vacuum and mass removal rates for wells EW-1 and EW-2 are graphed over time in Figures 9A and 9A, respectively for Infl-1 and Infl-2 data. The certified laboratory analytical reports are included in Appendix D.

### 6.2.2.1 WELL EW-2

There was some discrepancy noted in the Infl-1 and Infl-2 flow rates measured during the DPE testing on EW-2: Infl-1 flow rates ranged from 39.1 to 66.1 scfm; Infl-2 flow rates ranged from 69.0 to 136.0 scfm. The vapor stream being recovered from Infl-1 was noted to be moist. The vapor stream noted at Infl-2 was assumed to be drier after having passed through the SVE system's water knock-out tank and the blower. According to the manufacturer, the thermo-anemometer is very susceptible to error when used in a moist air flow. The Infl-2 flow readings seemed to be more consistent. Therefore, to provide a range of COC mass recovered by the DPE system during the pilot test, CRA calculated mass removals for both the Infl-1 (Table 8A) and Infl-2 (Table 8B) sampling points.

CRA applied casing vacuums between 50 and 250 inWC during the incremental step tests on well EW-2. Excluding the initial VOC concentration measurement of 1,785 ppmv near the commencement of SVE on well EW-2, field measured VOC concentrations during the step testing on well EW-2 ranged from 825 to 1,088 ppmv in Infl-1, with corresponding grab sample analytical COC concentrations ranging from 970 to 440 ppmv of TPHg, and 2.0 to 0.92 ppmv benzene. For Infl-2, the field measured VOC concentrations ranged from 846 to 1,150 ppmv, with corresponding grab sample analytical COC concentrations ranging from 1,300 to 610 ppmv of TPHg, and 1.7 to



1.3 ppmv benzene. There were no concentrations of MTBE detected above the method reporting limits in the extracted vapor stream collected during DPE testing on EW-2.

Based on information gathered during the step test work, the constant vacuum rate applied on well EW-2 test (judged to provide optimal flow rate and vapor concentration recovery) was an average vacuum of 152 inWC.

Utilizing the measured recovered vapor flow reading and samples from Infl-1, the calculations in Table 8A indicate that over the duration of the DPE testing period (approximately 8.3 hours) a total of 3.74 pounds of TPHg mass was removed, at mass removal rates ranging from 6.69 to 20.0 ppd, with an averaged mass removal rate of 11.5 ppd; and 0.01 pounds of benzene mass removed, at mass removal rates ranging from 0.011 to 0.033 ppd, with an averaged mass removal rate of 0.02 ppd. As noted above, MTBE concentrations were not detected above the method reporting limit. To estimate MTBE mass removal, the method reporting limit for the samples collected was utilized in the MTBE mass calculations. Using this approach, up to 0.003 pounds of MTBE mass was removed, at mass removal rates ranging from 0.008 to 0.012 ppd, with an averaged mass removal rate of less than 0.009 ppd.

Utilizing the measured recovered vapor flow reading and samples from Infl-2, the calculations from Table 8B indicate that over the duration of the DPE testing period (approximately 8.3 hours) a total of 6.98 pounds of TPHg mass was removed, at a mass removal rate ranging from 3.77 to 66.0 ppd with an averaged mass removal rate of 21.5 ppd; and 0.01 pounds of benzene mass removed, at mass removal rates ranging from 0.015 to 0.059 ppd, with an averaged mass removal rate of 0.03 ppd. Using the method reporting limit for MTBE for Infl-2 samples, up to 0.005 pounds of MTBE mass was removed, at mass removal rates ranging from 0.012 to 0.025 ppd, with an averaged mass removal rate of less than 0.016 ppd. The analytical laboratory results of the collected samples illustrated a general declining trend in COC concentrations during the DPE step test and constant rate testing periods on EW-2.

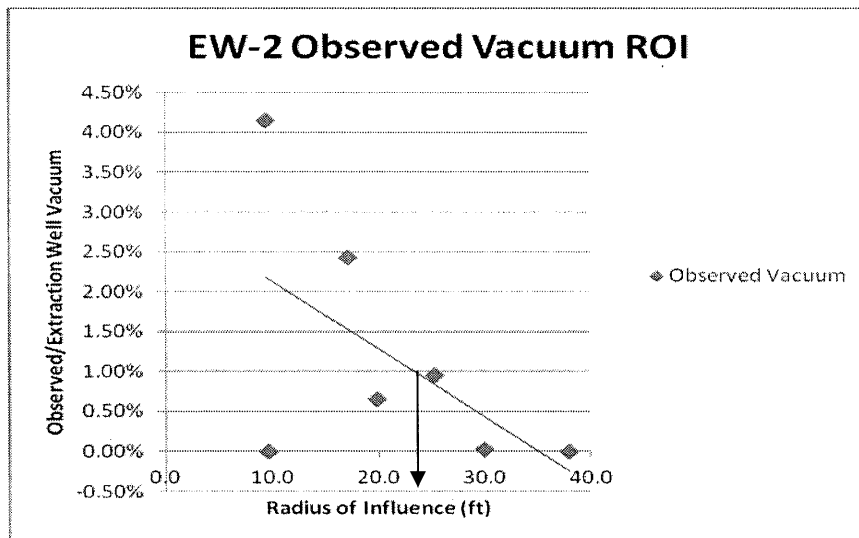
CRA periodically measured the induced vacuum at nearby observation wells (Table 6). Induced vacuum ranges in the observation wells were as follows:

	<i>SVE-3</i>	<i>SVE-4</i>	<i>SVE-5</i>	<i>P-2</i>
<b>Induced Vacuum (inWC)</b>	0.0 to 2.1	1.5 to 4.6	2.7 to 8.2	0.0 to 1.7

EW-1 had one measurement of induced vacuum of 0.06 inWC. This one measurement was anomalous and is not indicative of any sustained vacuum ROI from well EW-2. P-1

and MW-4 all measured 0.0 inWC induced vacuum. MW-4 had a fully submerged screen during the testing event. EW-1 and P-1 were interpreted to be outside the ROI of extraction well EW-2.

Theoretical effective ROI was calculated using the Johnson-Komblowski equation and is presented in Table 9. The effective ROI is any observation well that records greater than 1% of the applied vacuum to the extraction well. As noted in Table 9, using the Johnson-Komblowski equation, the ROI was estimated at between 20 to 25 feet. Plotting the results obtained (as noted in the chart below), as effective ROI of approximately 22 feet was determined, which corresponds with the calculations using the Johnson-Komblowski equation.



### 6.2.2.2 WELL EW-1

CRA applied casing vacuums ranging between 50 and 169 inWC during the incremental step tests applied to well EW-1. Field measured VOC concentrations ranged from 118 to 205 ppmv in Infl-1, with corresponding grab sample analytical COC concentrations ranging from <24 to 140 ppmv of TPHg. No benzene or MTBE was detected in the extracted vapor stream collected during DPE testing on EW-1, with the exception of one detection of 1.0 ppmv benzene in a sample collected from Infl-2.

Similar to the flow measurements gathered from DPE test work on EW-2, there was some discrepancy noted in the Infl-1 and Infl-2 flow rates measured during the DPE testing on EW-2. Similar to the calculations regarding the testing work performed on

well EW-2, to provide a range of COC mass recovered by the DPE system during the pilot test on well EW-1, CRA calculated mass removals for both the Infl-1 (Table 8A) and Infl-2 (Table 8B) sampling points.

Based on information gathered during the step test work, the constant vacuum rate applied on well EW-1 (judged to provide optimal flow rate and vapor concentration recovery) was an average vacuum of 154 inWC.

Utilizing the measured recovered vapor flow reading and samples collected from Infl-1, the calculations in Table 8A indicate that over the duration of the DPE testing period (approximately 7.9 hours), a total of 1.26 pounds of TPHg mass was removed, at mass removal rates ranging from 0.58 to 6.78 ppd, with an averaged mass removal rate of 3.83 ppd. As noted above, benzene and MTBE concentrations were not detected above the respective method reporting limit. To estimate potential benzene and MTBE mass removal, the method reporting limits for the samples collected was utilized in the benzene and MTBE mass calculations. Using this approach for estimating potential benzene mass removal, a total of up to 0.007 pounds of benzene mass was removed, at mass removal rates ranging from 0.012 to 0.024 ppd, with an averaged mass removal rate of less than 0.020 ppd. For MTBE, a total of up to 0.006 pounds of MTBE mass was removed, at mass removal rates ranging from 0.012 to 0.024 ppd, with an averaged mass removal rate of less than 0.020 ppd.

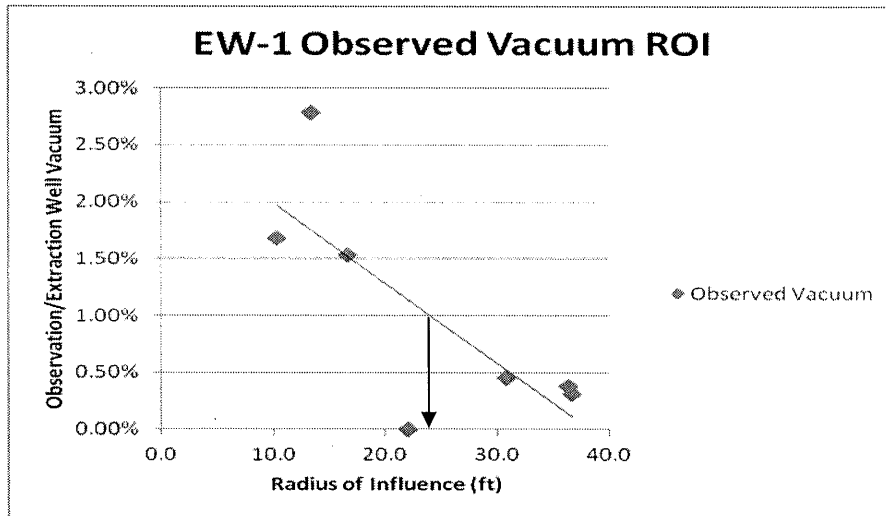
Utilizing the measured recovered vapor flow reading and samples from Infl-2, the calculations from Table 8B indicate that over the duration of the DPE testing period (approximately 7.9 hours) a total of 3.20 pounds of TPHg mass was removed, at a mass removal rate ranging from 1.13 to 30.73 ppd with an averaged mass removal rate of 9.72 ppd. As noted above, only one minor detection of benzene was noted in the samples collected from Infl-2, the remainder of the samples collected do not contain concentrations of benzene or MTBE above the respective method reporting limits. To estimate potential benzene and MTBE mass removal, the method reporting limits for the samples collected were utilized in the benzene and MTBE mass calculations. Using this approach for estimating potential benzene mass removal, a total of up to 0.010 pounds of benzene mass was removed, at mass removal rates ranging from 0.014 to 0.047 ppd, with an averaged mass removal rate of less than 0.029 ppd. For MTBE, a total of up to 0.008 pounds of MTBE mass was removed, at mass removal rates ranging from 0.013 to 0.030 ppd, with an averaged mass removal rate of less than 0.026 ppd.

CRA periodically measured the induced vacuum at nearby observation wells (Table 6). The induced vacuum in the observation wells was recorded as follows:

	<i>SVE-3</i>	<i>SVE-4</i>	<i>SVE-5</i>	<i>EW-2</i>	<i>P-1</i>	<i>P-2</i>
<b>Induced Vacuum (inWC)</b>	0.8 to 2.9	0.0 to 0.9	0.0 to 1.0	0.0 to 1.3	2.0 to 5.2	0.9 to 3.2

MW-4 measured 0.0 inWC induced vacuum.

Theoretical effective ROI was calculated using the Johnson-Komblowski Equation and is presented in Table 9. As noted previously, the effective ROI is any observation well that records that is greater than 1% of the applied vacuum to the extraction well. As noted in Table 9, using the Johnson-Komblowski equation, the effective ROI for well EW-1 was estimated at between 17 to 25 feet. Plotting the results obtained (as noted in the chart below), as effective ROI of approximately 22 feet was determined, which corresponds with the calculations using the Johnson-Komblowski equation.



### 6.2.3 METHANE INTERFERENCE

In addition to the standard hydrocarbon analysis, vapor samples were collected from EW-2 and EW-1 during the pilot test for analysis of methane by TestAmerica using Method SCAQMD 25.3. The methane concentration reported was 24 ppmv in well EW-2 and 11 ppmv in well EW-1. The methane analysis was conducted to allow CRA to assess potential methane interference with the thermal destruction process of petroleum hydrocarbons. The concentrations of methane detected are lower than the

concentrations that would be expected to cause interference with the combustion of petroleum hydrocarbons. Therefore, methane interference would not be expected with implementation of a SVE/DPE system. Additionally, no abnormal temperatures in the TCAT combustion chamber were observed during the pilot test that would indicate the presence of high levels of methane. As such, CRA concludes that there would not be any operational issues associated with methane gas interference with operation of a full-scale SVE/DPE system. The certified laboratory analytical reports for methane are included in Appendix D.

## 7.0 DPE PILOT TEST CONCLUSIONS

The conclusions obtained from the DPE pilot test work performed on wells EW-1 and EW-2 are as follows:

- The groundwater yield obtained and the drawdown ROIs noted are considered marginal and not typical for effective formation dewatering to permit effective DPE application.
- There was relatively low TPHg mass recovery noted from EW-2 and EW-1. The averaged TPHg removal rate for EW-2 using Infl-1 and Infl-2 calculations are 11.5 and 21.5 ppd, respectively. The averaged TPHg removal rate for EW-1 using Infl-1 and Infl-2 calculations are 3.83 and 9.72 ppd, respectively.
- The mass recovery potential and rates of recovery of the two main COCs (benzene and MTBE) were minimal. The averaged benzene removal rate for EW-2 using Infl-1 and Infl-2 calculations are 0.020 and 0.030 ppd, respectively, and for EW-1 using Infl-1 and Infl-2 calculations are 0.020 and 0.029 ppd, respectively. There was no detection of MTBE above method reporting limits. These negligible mass recovery potential and rates of recovery for the two main COCs of the site further affirm that DPE would not be a prudent, cost-effective, or environmentally sustainable choice for addressing the residual concentration of these particular COCs.

Based on the results of the DPE pilot testing work performed, DPE is not recommended as a prudent, cost-effective, or environmentally sustainable technology that should be employed at the site.

## 8.0 OVERALL PILOT TEST WORK CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the pilot testing work discussed in this report, CRA does not consider AS/SVE or DPE to be prudent, cost-effective, or environmentally sustainable remediation technologies to meet the remedial objectives of the site. As originally recommended in our October 24, 2011 *Corrective Action Plan*, CRA recommends natural attenuation as the most prudent, cost-effective, and environmentally sustainable remedial technology to address the residual COC concentrations present in the shallow soils and groundwater underlying the site.

CRA believes that this site meets SWRCB's *Low-Threat Underground Storage Tank Case Closure Policy* (adopted on September 17, 2012) closure requirements. On behalf of Shell, we will submit a low-threat closure request under separate cover.

All of Which is Respectfully Submitted,  
CONESTOGA-ROVERS & ASSOCIATES



Peter Schaefer, CHG, CEG



Lee Brennan, PE



Dated 10/30/2012

## FIGURES



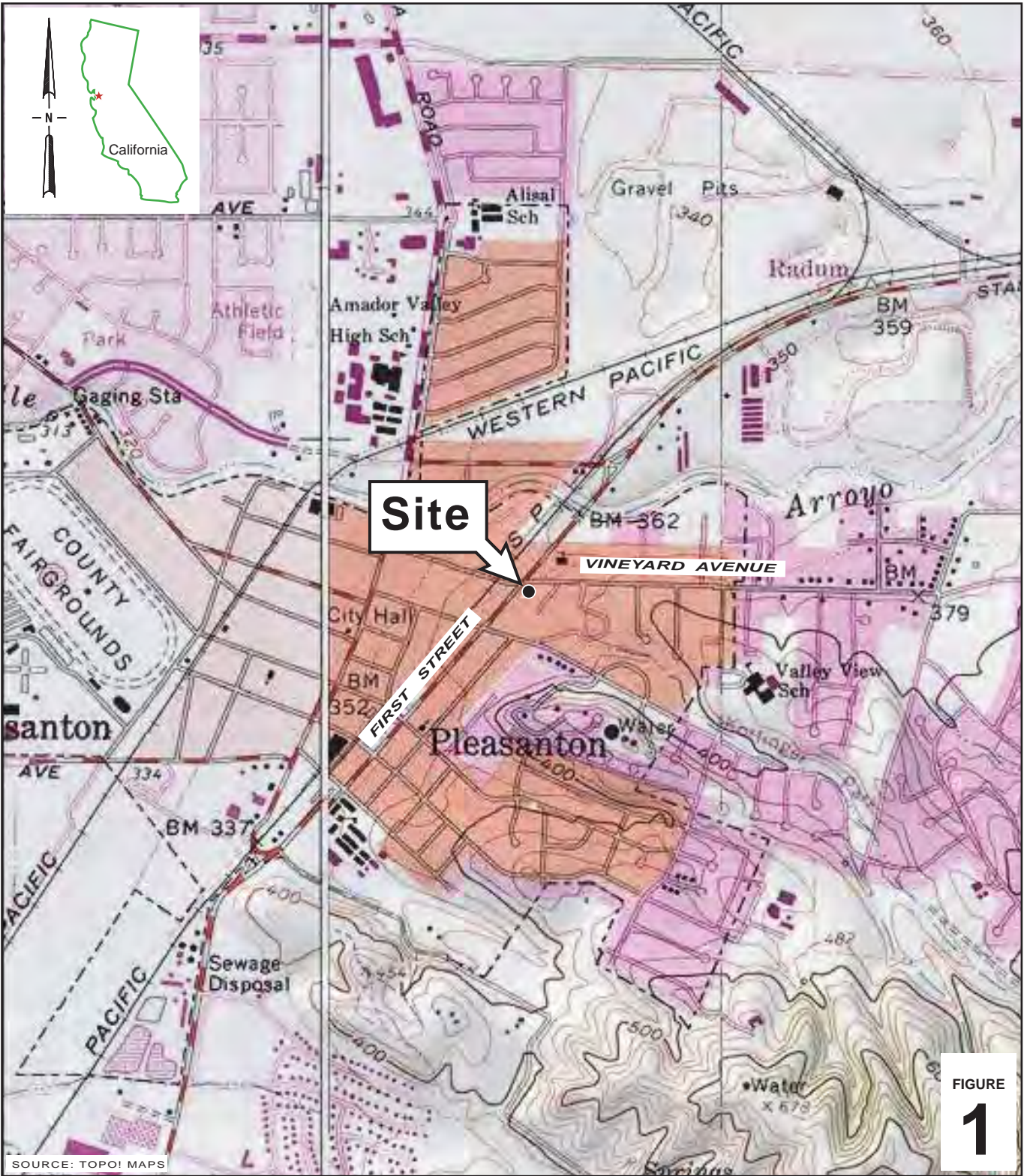


FIGURE  
**1**

I:\Shell\6-charts\2405--\240523-Pleasanton\_4212\_First\240523-FIGURES\240523 VICINITY (F1).AI

### Shell-branded Service Station

4212 First Street  
Pleasanton, California



**CONESTOGA-ROVERS  
& ASSOCIATES**

### Vicinity Map

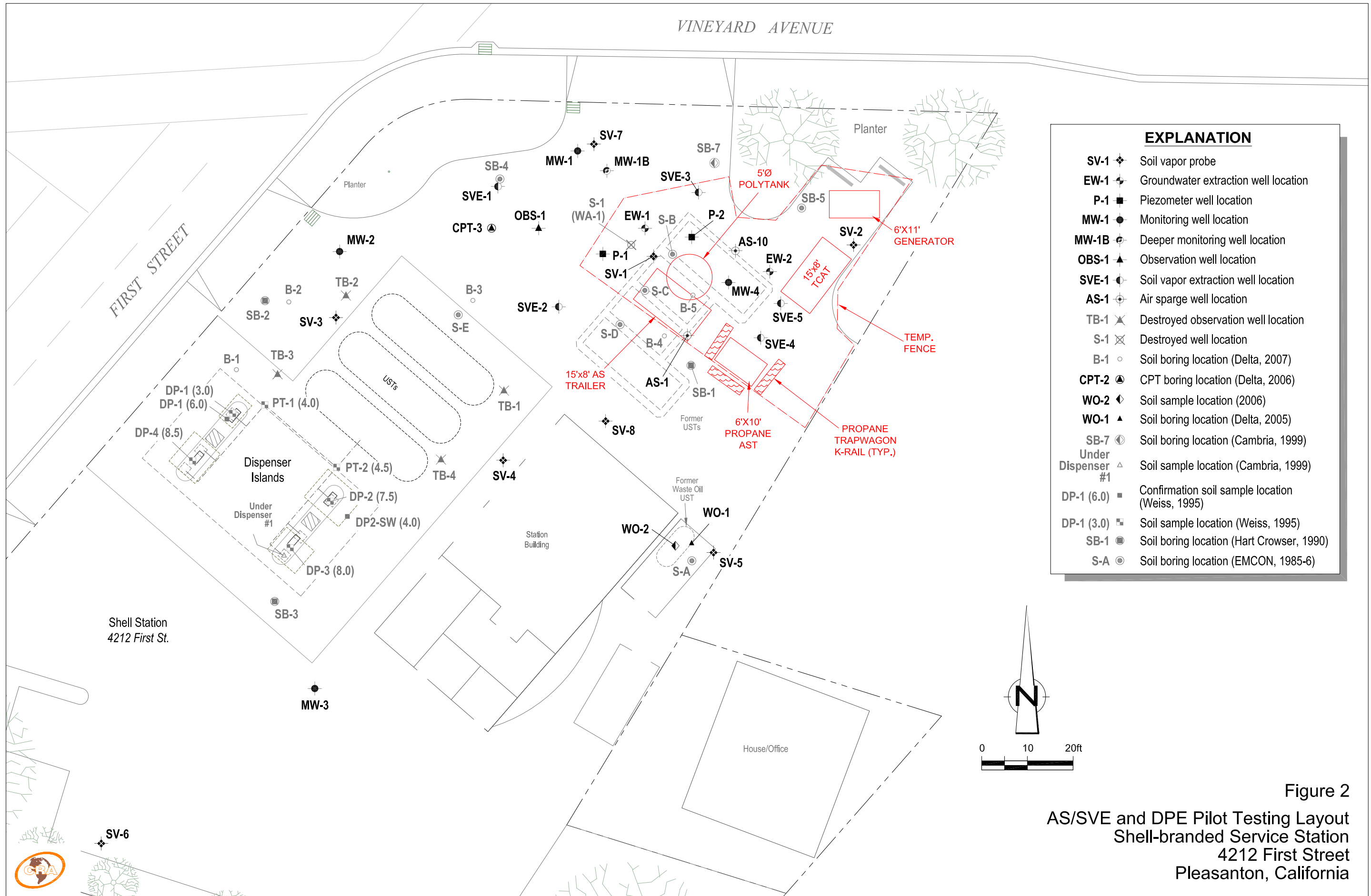


Figure 2  
 AS/SVE and DPE Pilot Testing Layout  
 Shell-branded Service Station  
 4212 First Street  
 Pleasanton, California

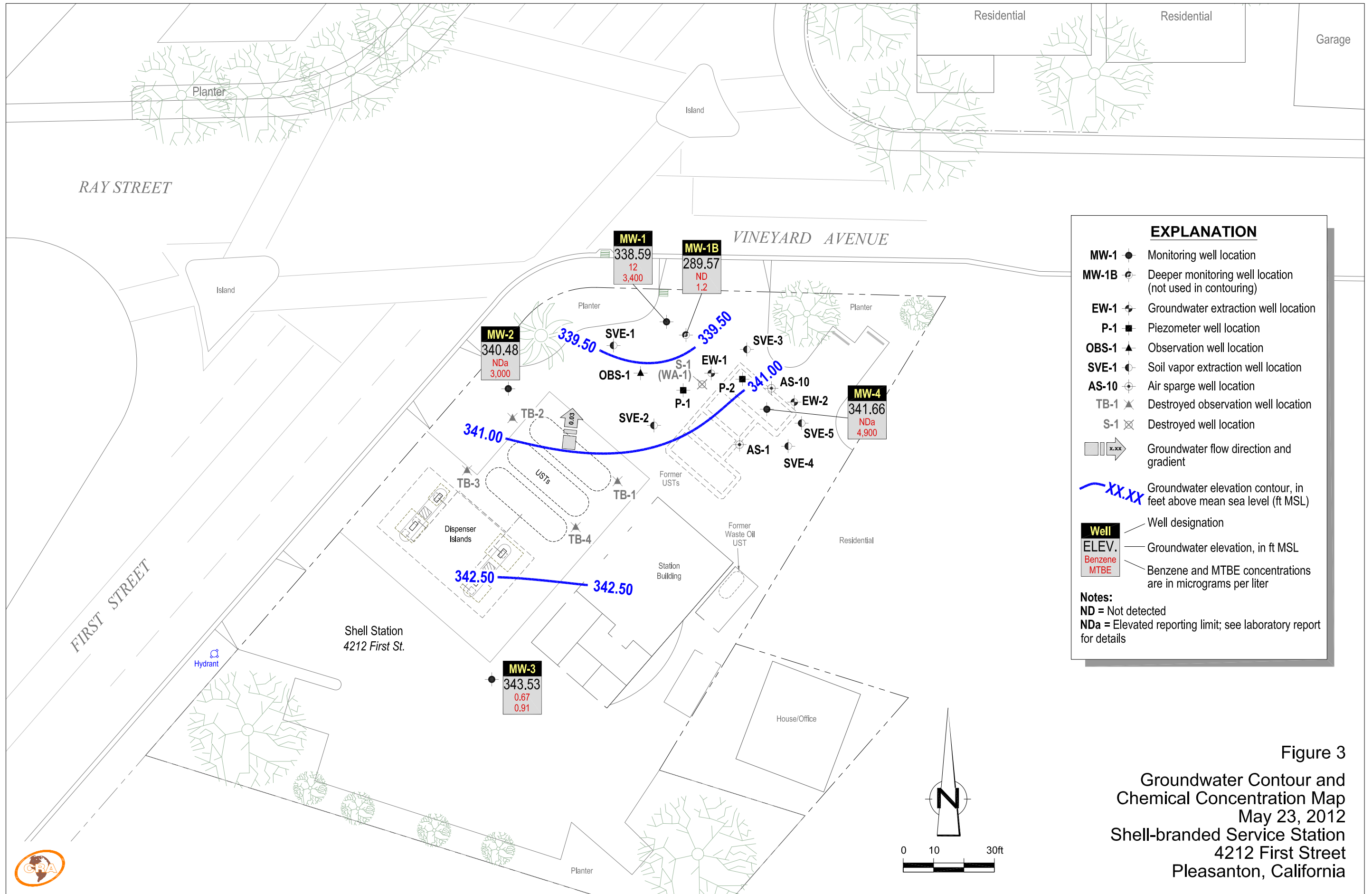


Figure 3  
 Groundwater Contour and  
 Chemical Concentration Map  
 May 23, 2012  
 Shell-branded Service Station  
 4212 First Street  
 Pleasanton, California

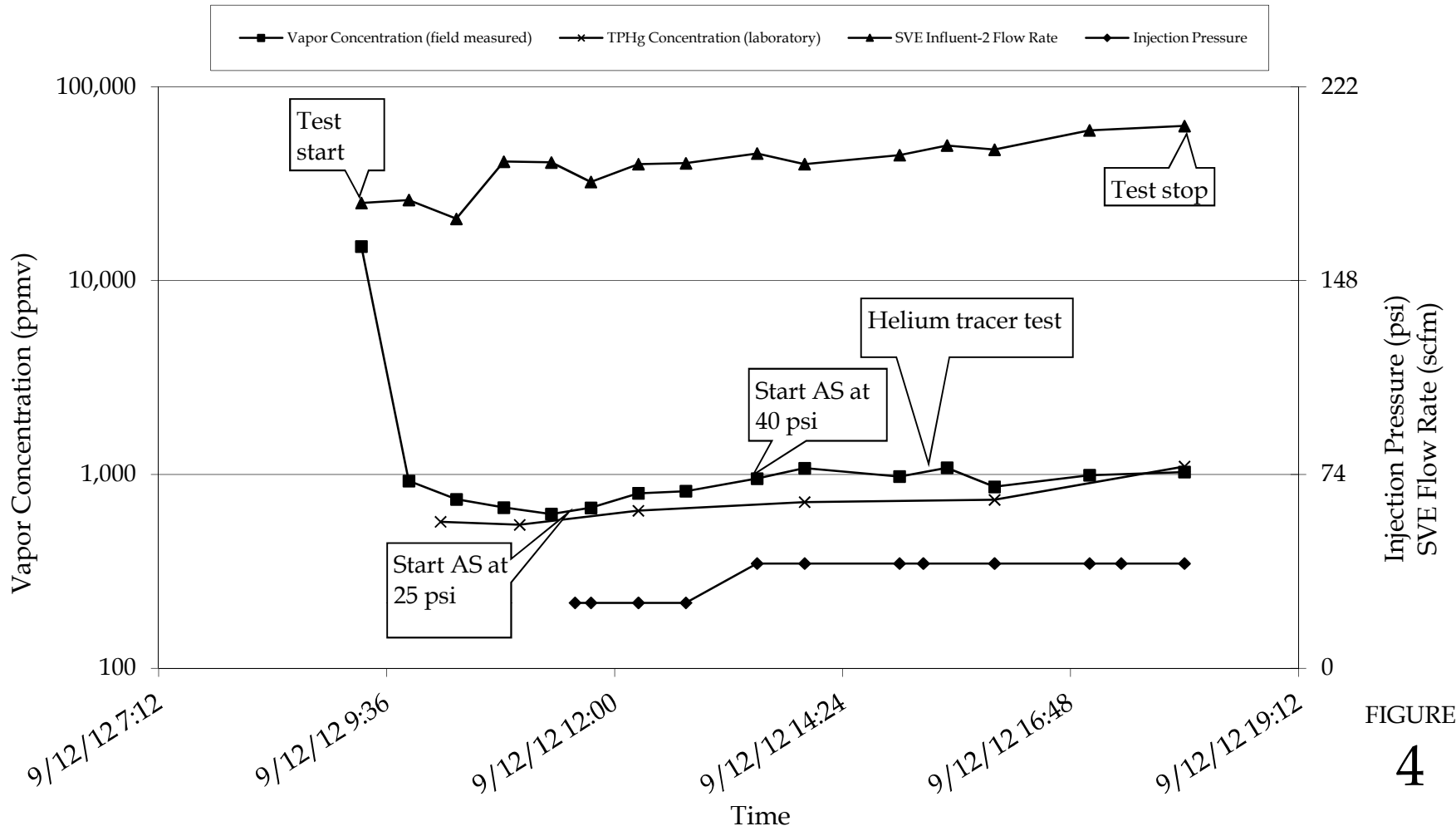


FIGURE  
4

SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET  
PLEASANTON, CALIFORNIA



INFLUENT TPHG VAPOR  
CONCENTRATION, SVE FLOW, AND  
INJECTION PRESSURE VS.  
OPERATIONAL TIME

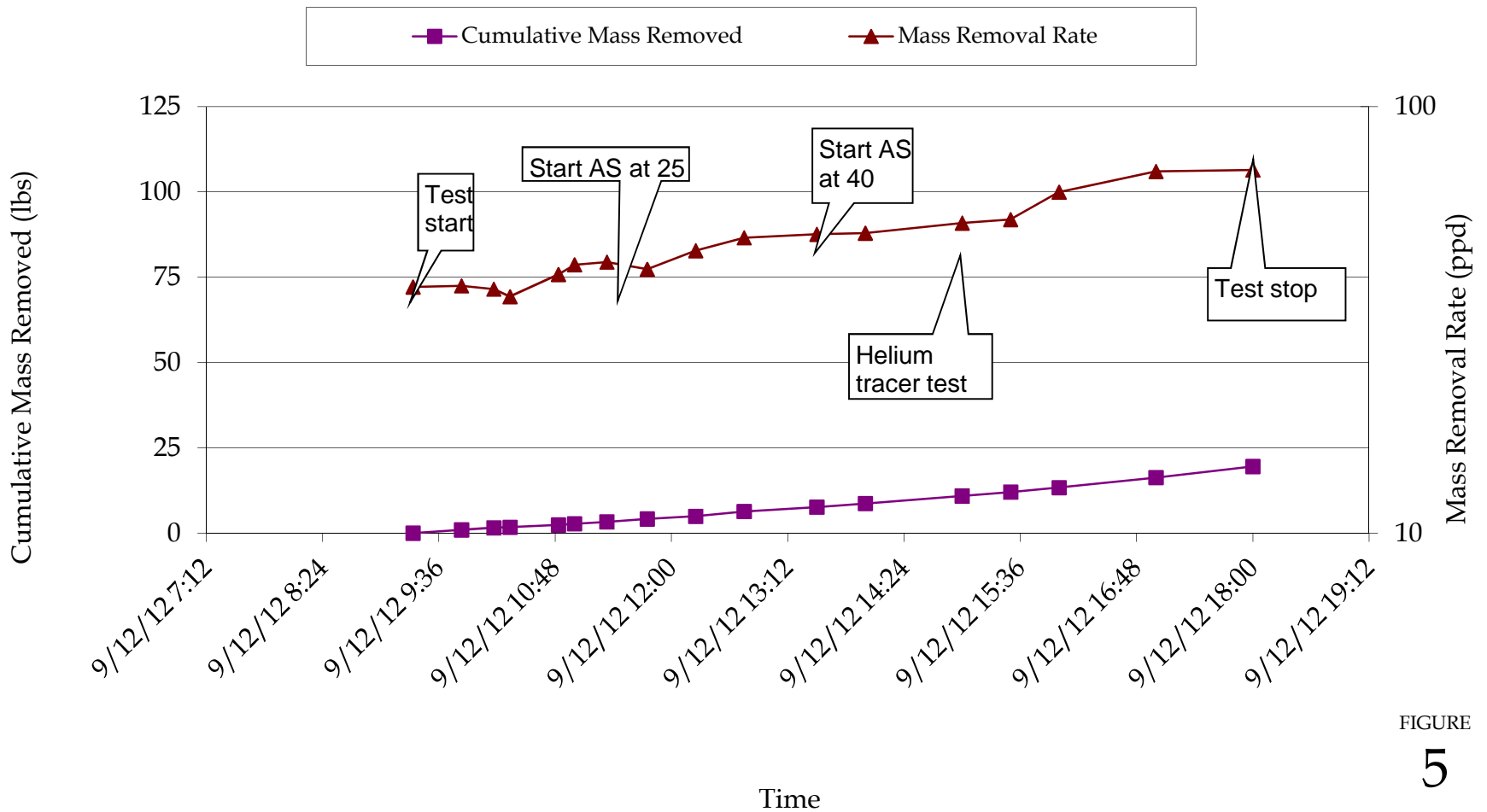


FIGURE  
5

SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET  
PLEASANTON, CALIFORNIA



TPHg MASS REMOVED AND MASS  
REMOVAL RATE VS. OPERATIONAL  
TIME

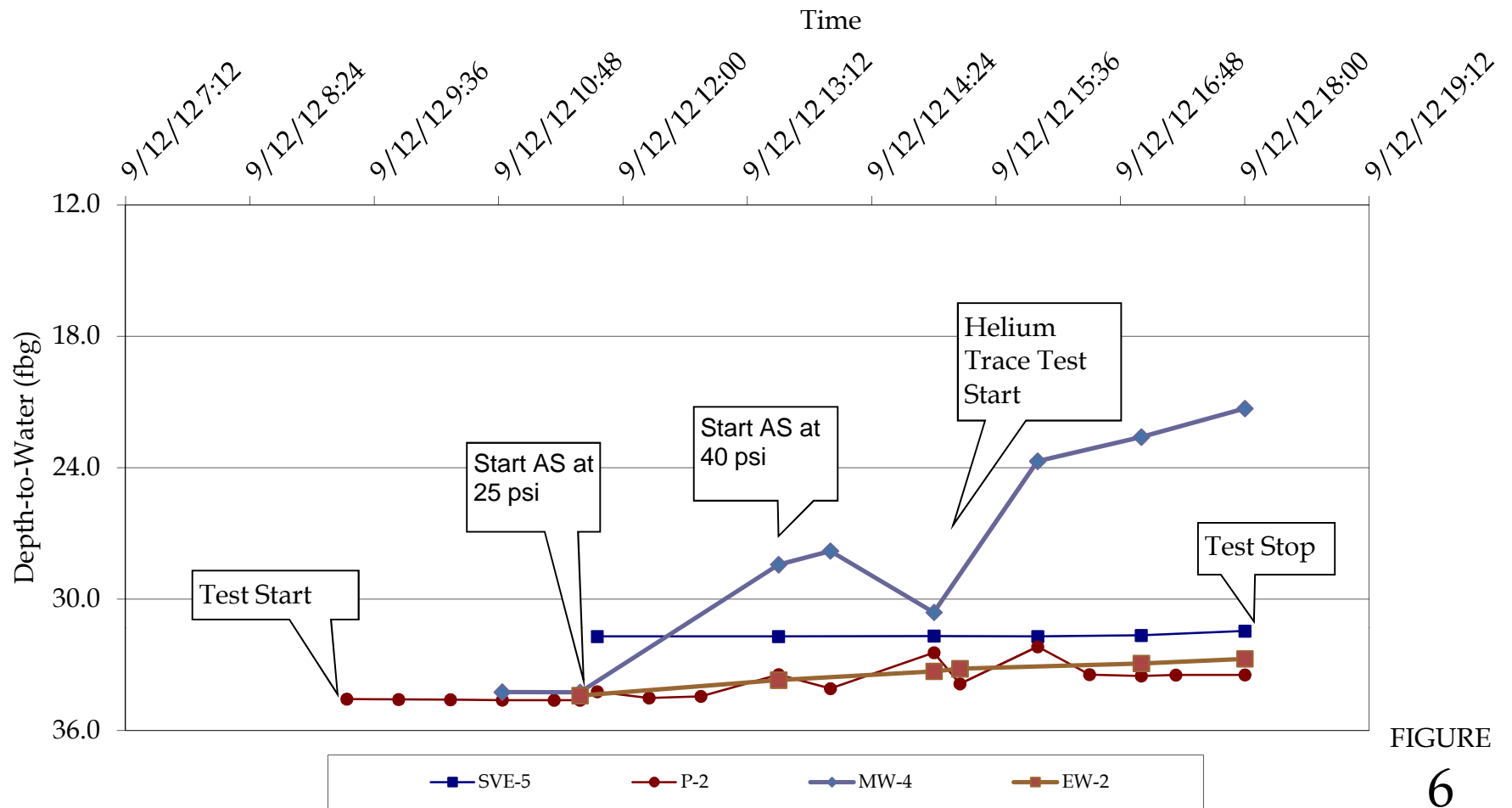


FIGURE  
6

SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET  
PLEASANTON, CALIFORNIA



DEPTH TO WATER VS. TIME

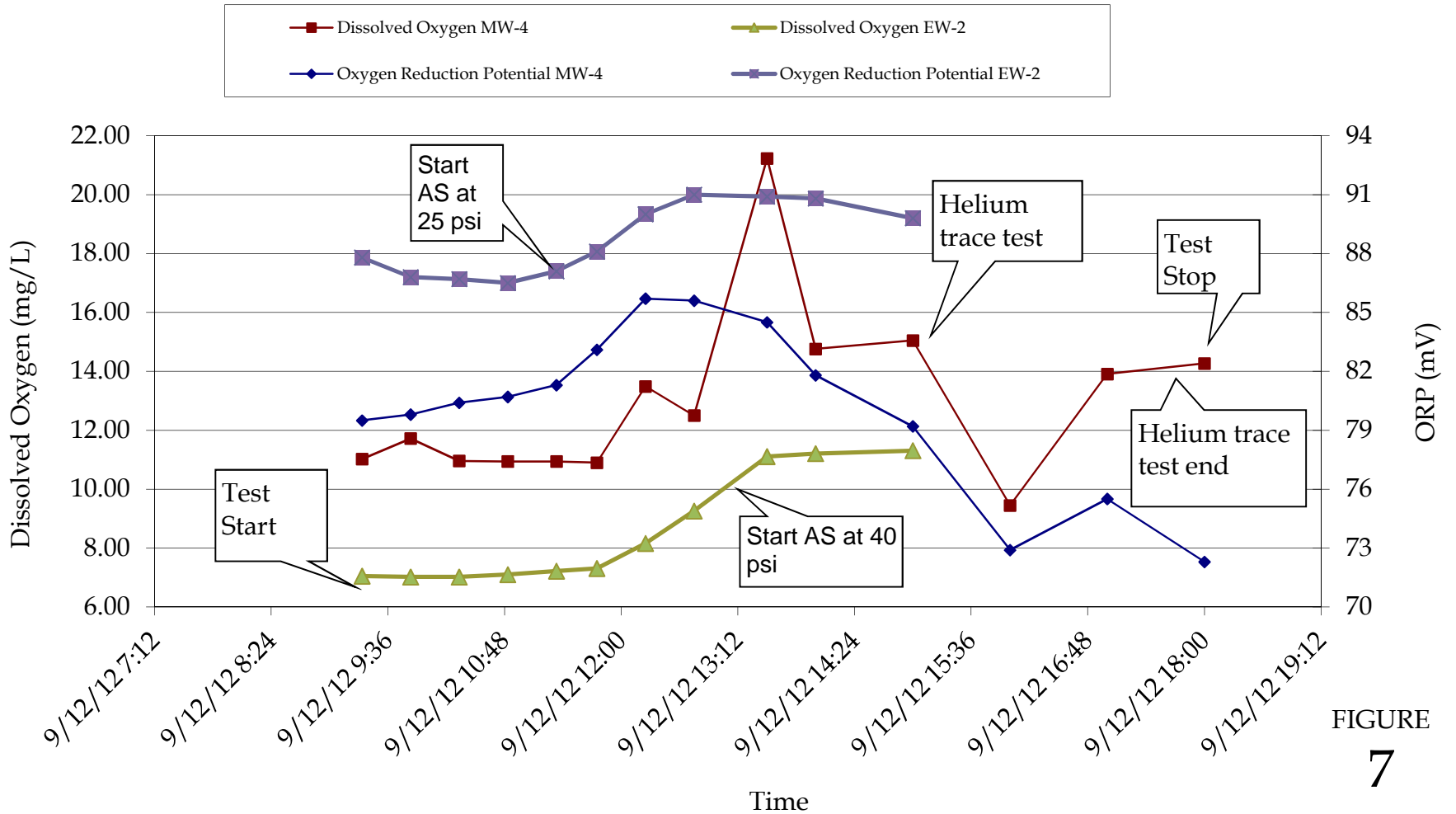
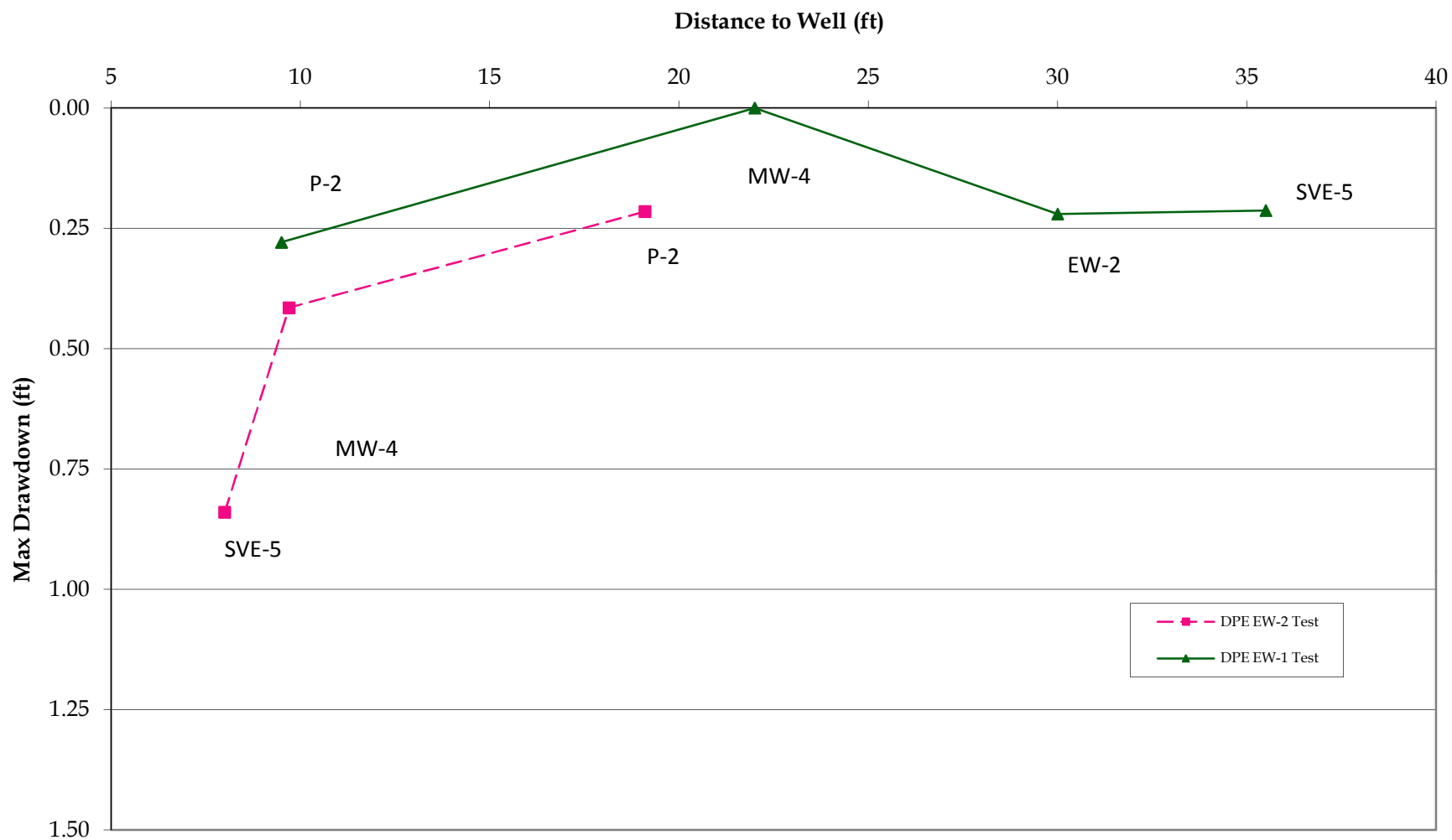


FIGURE  
7

SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET  
PLEASANTON, CALIFORNIA



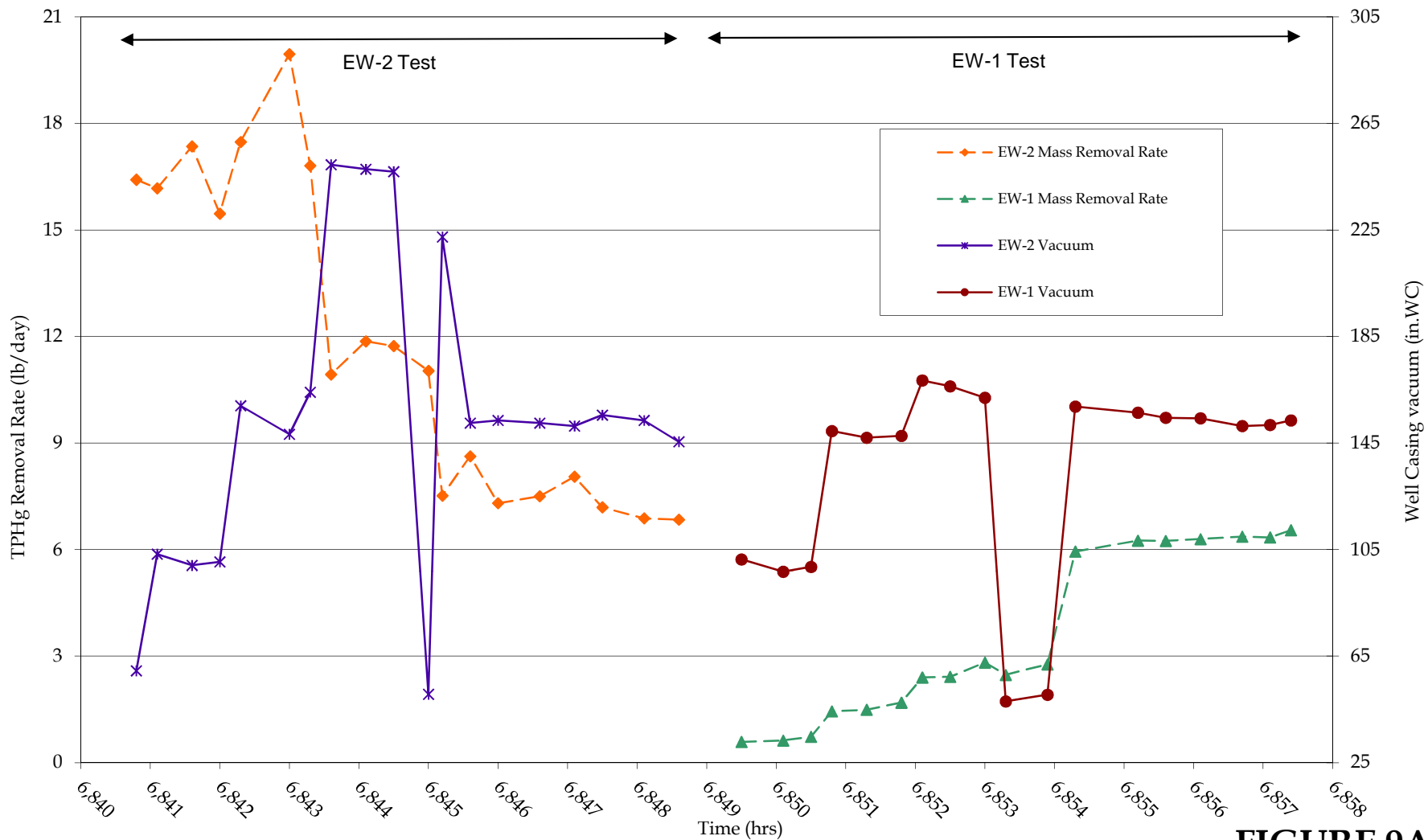
MW-4 AND EW-2: DISSOLVED OXYGEN  
AND OXIDATION POTENTIAL OVER  
TIME



**DPE Pilot Test**  
4212 First Street, Pleasanton, CA

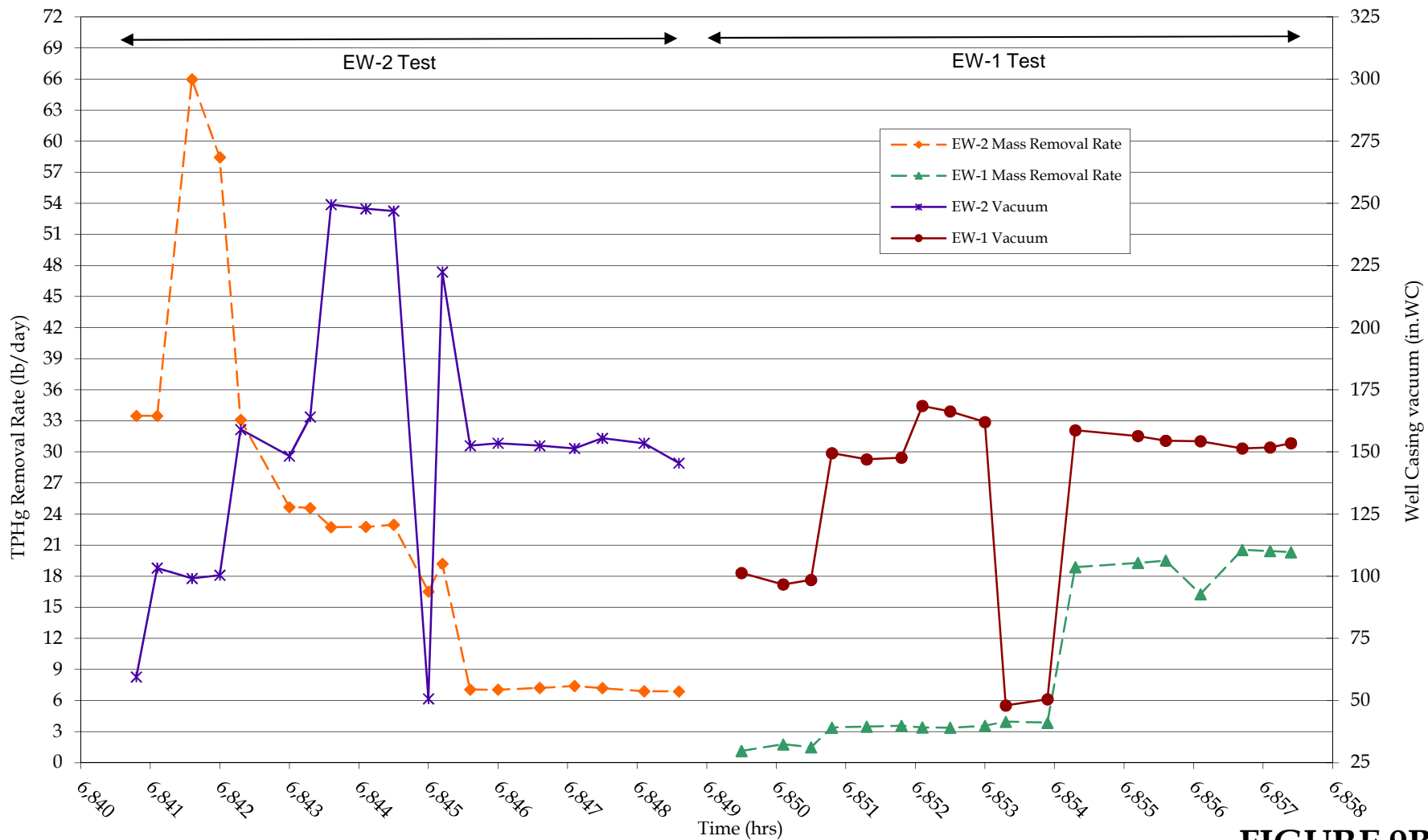
**FIGURE 8**  
Groundwater Drawdown vs. Distance for Wells EW-2,  
MW-4, SVE-5, and P-2





**DPE Pilot Test**  
 4212 First Street, Pleasanton, CA

**FIGURE 9A**  
 System Performance (INF-1) for  
 Wells EW-2 and EW-1



**DPE Pilot Test**  
 4212 First Street, Pleasanton, CA

**FIGURE 9B**  
 System Performance (INF-1) for  
 Wells EW-2 and EW-1

## TABLES

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPH<sub>mo</sub> (mg/kg)</i>	<i>TPH<sub>d</sub> (mg/kg)</i>	<i>TPH<sub>g</sub> (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
S-A	9/24/1985	7-8.5	---	<20	---	---	---	---	---	---	---	---	---	---	---	---	---
S-B	9/27/1985	3.5-5	---	---	---	2.0	<0.10 a	<0.10 a	---	---	<0.40 a	---	---	---	---	---	---
S-B	9/27/1985	7-8.5	---	---	---	460	<2.0 a	2.0 a	---	---	32 a	---	---	---	---	---	---
S-B	9/27/1985	10.5-12	---	---	---	610	<2.0 a	3.5 a	---	---	63 a	---	---	---	---	---	---
S-B	9/27/1985	14-15.5	---	---	---	1,300	<2.5 a	9.6 a	---	---	260 a	---	---	---	---	---	---
S-B	9/27/1985	19-20	---	---	---	<2.0	<0.10 a	<0.10 a	---	---	<0.40 a	---	---	---	---	---	---
S-C	9/27/1985	10.5-12	---	---	---	<2.0	<0.10 a	<0.10 a	---	---	<0.40 a	---	---	---	---	---	---
S-D	9/27/1985	10.5-12	---	---	---	<2.0	<0.10 a	<0.10 a	---	---	<0.40 a	---	---	---	---	---	---
S-E	3/1986	5.5	---	---	---	ND	ND	ND	---	---	ND	---	---	---	---	---	---
S-E	3/1986	10.5	---	---	---	ND	ND	ND	---	---	ND	---	---	---	---	---	---
S-E	3/1986	15.5	---	---	---	ND	ND	ND	---	---	ND	---	---	---	---	---	---
SB-1	3/5/1990	15	---	---	---	4.2	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
SB-1	3/5/1990	35	---	---	---	18	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
SB-1	3/5/1990	50	---	---	---	<1.0	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
SB-2	3/5/1990	15	---	---	---	<1.0	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
SB-2	3/5/1990	30	---	---	---	7.2	<0.050	0.17	<0.10	<0.10	---	---	---	---	---	---	---
SB-3	3/5/1990	10	---	---	---	<1.0	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
SB-3	3/5/1990	30	---	---	---	<1.0	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
WA-1 (S-1)	3/6/1990	30	---	---	---	380	2.2	2.7	5.3	32	---	---	---	---	---	---	---
WA-1 (S-1)	3/6/1990	35	---	---	---	290	1.8	0.35	0.24	1.5	---	---	---	---	---	---	---
WA-1 (S-1)	3/6/1990	40	---	---	---	<1.0	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G (mg/kg)	TPH <sub>mo</sub> (mg/kg)	TPH <sub>d</sub> (mg/kg)	TPH <sub>g</sub> (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	E & X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Ethanol (mg/kg)
WA-1 (S-1)	3/6/1990	50	---	---	---	<1.0	<0.050	<0.10	<0.10	<0.10	---	---	---	---	---	---	---
SB-4-15	7/17/1990	15	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
SB-4-35	7/17/1990	35	---	---	---	<1.0	0.023	0.0071	<0.0050	0.0055	---	---	---	---	---	---	---
SB-4-50	7/17/1990	50	---	---	---	<1.0	0.030	0.0059	<0.0050	<0.0050	---	---	---	---	---	---	---
SB-5-35	7/17/1990	35	---	---	---	820	65	3.7	6.5	65	---	---	---	---	---	---	---
SB-5-40	7/17/1990	40	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
SB-5-50	7/17/1990	50	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
DP-1	9/8/1995	3	---	---	---	1.3	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
DP-1	9/11/1995	6	---	---	---	2.5	<0.0050	<0.0050	0.020	0.035	---	---	---	---	---	---	---
DP-2	9/8/1995	7.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
DP-2-SW	9/8/1995	4	---	---	---	1.7	<0.0050	<0.0050	0.0075	0.017	---	---	---	---	---	---	---
DP-3	9/8/1995	8	---	---	---	120	<0.12	<0.12	<0.12	<0.12	---	---	---	---	---	---	---
DP-4	9/8/1995	8.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
PT-1	9/8/1995	4	---	---	---	2.5	0.0080	<0.0050	0.038	0.19	---	---	---	---	---	---	---
PT-2	9/8/1995	4.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
SB-6-15.5' (MW-1)	4/9/1999	15.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-6-19.5' (MW-1)	4/9/1999	19.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-6-25.0' (MW-1)	4/9/1999	25	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-6-30.0' (MW-1)	4/9/1999	30	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPHmo (mg/kg)</i>	<i>TPHd (mg/kg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
SB-6-35.0' (MW-1)	4/9/1999	35	---	---	---	<1.0	0.0069	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-6-40.0' (MW-1)	4/9/1999	40	---	---	---	<1.0	<0.0050	0.28	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-6-45.0' (MW-1)	4/9/1999	45	---	---	---	<1.0	<b>0.10</b>	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-15.0'	4/7/1999	15	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-19.5'	4/7/1999	19.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-24.5'	4/7/1999	24.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-29.3'	4/7/1999	29.3	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-34.3'	4/7/1999	34.3	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-40.0'	4/7/1999	40	---	---	---	<b>83</b>	<0.0050	0.37	0.26	0.26	---	<0.025	---	---	---	---	---
SB-7-44.5'	4/7/1999	44.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.025	---	---	---	---	---
SB-7-59.5'	4/7/1999	59.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.050	---	---	---	---	---
SB-7-64.5'	4/7/1999	64.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.050	---	---	---	---	---
MW-2-6.3'	1/18/2000	6.3	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-2-16.5'	1/18/2000	16.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-2-21.5'	1/18/2000	21.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-2-26.0'	1/18/2000	26	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-2-30.5'	1/18/2000	30.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-2-35.0'	1/18/2000	35	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-3-5.0'	1/18/2000	5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-3-10.5'	1/18/2000	10.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-3-15.5'	1/18/2000	15.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-3-20.5'	1/18/2000	20.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
MW-3-25.5'	1/18/2000	25.5	---	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.010	---	<0.050	---	---	---	---	---
WO-1@10	6/10/2005	10	<100	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	---	---	---	---	---
WO-1@20	6/10/2005	20	<100	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	---	---	---	---	---

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPHmo (mg/kg)</i>	<i>TPHd (mg/kg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
WO-1@30	6/10/2005	30	<100	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	---	---	---	---	---
WO-2-14	7/20/2006	14	26	---	5.5 b	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	0.021	<0.0050	<0.0050	<0.0050	<0.0050	---
MW-1B@65'	8/23/2006	65	---	---	---	<2.5	<0.025	<0.025	<0.025	<0.050	---	<0.025	<0.250	---	---	---	---
MW-1B@69.5'	8/23/2006	69.5	---	---	---	<2.5	<0.025	<0.025	<0.025	<0.050	---	<0.025	<0.250	---	---	---	---
MW-1B@95'	8/23/2006	95	---	---	---	<2.5	<0.025	<0.025	<0.025	<0.050	---	<0.025	<0.250	---	---	---	---
MW-4@35'	8/24/2006	35	---	---	---	51	<0.025	<0.025	<0.025	<0.050	---	0.17	<0.250	---	---	---	---
MW-4@36.5'	8/24/2006	36.5	---	---	---	380	<0.025	<0.025	1.2	1.6	---	0.092	<0.250	---	---	---	---
MW-4@39.5'	8/24/2006	39.5	---	---	---	6.7	<0.025	<0.025	0.050	0.064	---	0.038	<0.250	---	---	---	---
MW-4@44.5'	8/24/2006	44.5	---	---	---	<2.5	<0.025	<0.025	<0.025	<0.050	---	0.59	<0.250	---	---	---	---
MW-4@50'	8/24/2006	50	---	---	---	<2.5	<0.025	<0.025	<0.025	<0.050	---	0.56	<0.250	---	---	---	---
B-1@5	3/27/2007	5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-1@9.5	3/29/2007	9.5	---	---	---	5.4	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-1@14.5	3/29/2007	14.5	---	---	---	0.13 d	<0.0050	<0.0050	<0.0050	<0.0050	---	0.046	0.068	---	---	---	---
B-1@19.5	3/29/2007	19.5	---	---	---	0.57 d	<0.010	<0.010	<0.010	<0.010	---	0.60	0.80	---	---	---	---
B-1@24.5	3/29/2007	24.5	---	---	---	0.92 d	<0.050	<0.050	<0.050	<0.050	---	0.78	0.20	---	---	---	---
B-1@29.5	3/29/2007	29.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	0.059	<0.020	---	---	---	---
B-1@34.5	3/29/2007	34.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	0.12	0.033	---	---	---	---
B-2@5	3/27/2007	5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-2@9.5	3/29/2007	9.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-2@14.5	3/29/2007	14.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-2@19.5	3/29/2007	19.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	0.082	---	---	---	---
B-2@24.5	3/29/2007	24.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	0.11	0.030	---	---	---	---
B-2@29	3/29/2007	29	---	---	---	0.25	<0.0050	<0.0050	<0.0050	<0.0050	---	0.22	0.14	---	---	---	---
B-2@34.5	3/29/2007	34.5	---	---	---	0.32 d	<0.0050	<0.0050	<0.0050	<0.0050	---	0.45	0.75	---	---	---	---

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPH<sub>mo</sub> (mg/kg)</i>	<i>TPH<sub>d</sub> (mg/kg)</i>	<i>TPH<sub>g</sub> (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
B-3@5	3/27/2007	5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-3@9.5	3/28/2007	9.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-3@14.5	3/28/2007	14.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<b>0.080</b>	<0.020	---	---	---	---
B-3@19.5	3/28/2007	19.5	---	---	---	0.11 d	<0.0050	<0.0050	<0.0050	<0.0050	---	<b>0.14</b>	0.021	---	---	---	---
B-3@24.5	3/28/2007	24.5	---	---	---	0.45	<0.0050	<0.0050	<0.0050	<0.0050	---	<b>0.083</b>	<0.020	---	---	---	---
B-3@29	3/28/2007	29	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	0.016	0.073	---	---	---	---
B-3@34.5	3/28/2007	34.5	---	---	---	<b>710</b>	<b>0.096</b>	<0.05	2.3	<b>16</b>	---	<0.025	<5.0	---	---	---	---
B-4@5	3/27/2007	5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-4@9.5	3/28/2007	9.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-4@14.5	3/28/2007	14.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-4@20	3/28/2007	20	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<b>0.040</b>	<0.020	---	---	---	---
B-4@24.5	3/28/2007	24.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<b>0.026</b>	<0.020	---	---	---	---
B-4@29.5	3/28/2007	29.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	0.0063	0.071	---	---	---	---
B-4@35	3/28/2007	35	---	---	---	0.54 d	<0.025	<0.025	<0.025	<0.025	---	<b>0.80</b>	<b>0.63</b>	---	---	---	---
B-5@5	3/27/2007	5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-5@10.5	3/28/2007	10.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-5@15.5	3/28/2007	15.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-5@20.5	3/28/2007	20.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	0.0054	<0.020	---	---	---	---
B-5@25.5	3/28/2007	25.5	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.020	---	---	---	---
B-5@30	3/28/2007	30	---	---	---	<0.10	<0.0050	<0.0050	<0.0050	<0.0050	---	<b>0.065</b>	<b>0.10</b>	---	---	---	---
B-5@35	3/28/2007	35	---	---	---	<0.50	<0.025	<0.025	<0.025	<0.025	---	<b>0.30</b>	<b>0.46</b>	---	---	---	---
Under Dispenser #1	1/22/2009	3	---	---	<9.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.050	<0.010	<0.010	<0.010	---
AS-10@30'	1/14/2010	30	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50



TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPHmo (mg/kg)</i>	<i>TPHd (mg/kg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
AS-10@35'	1/14/2010	35	---	---	---	140	<0.50	<0.50	0.50	0.90	---	<0.50	<5.0	<1.0	<1.0	<1.0	<50
AS-10@40'	1/14/2010	40	---	---	---	<50	<0.50 e	<0.50 e	<0.50 e	<0.50 e	---	<0.50 e	<5.0 e	<1.0 e	<1.0 e	<1.0 e	<50
AS-10@45'	1/14/2010	45	---	---	---	0.90	<0.0050	<0.0050	<0.0050	<0.0050	---	0.62	0.19	<0.010	<0.010	<0.010	<0.50
AS-10@50'	1/14/2010	50	---	---	---	1.4	<0.0050	<0.0050	<0.0050	<0.0050	---	0.36 f	0.14	<0.010	<0.010	<0.010	<0.50
OBS-1@30'	1/13/2010	30	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50
OBS-1@35'	1/13/2010	35	---	---	---	350	<1.0	<1.0	<1.0	<1.0	---	<1.0	<10	<2.0	<2.0	<2.0	<100
OBS-1@40'	1/13/2010	40	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	0.0089	<0.050	<0.010	<0.010	<0.010	<0.50
SVE-1@30'	1/14/2010	30	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.50
AS-1-5'	8/22/2012	5	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
AS-1-10'	8/22/2012	10	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
AS-1-15'	8/22/2012	15	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	0.0035	<0.050	---	---	---	---
AS-1-20'	8/22/2012	20	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
AS-1-25'	8/22/2012	25	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
AS-1-30'	8/22/2012	30	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	0.0038	<0.050	---	---	---	---
AS-1-33'	8/22/2012	33	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
AS-1-35'	8/22/2012	35	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	0.0040	<0.050	---	---	---	---
AS-1-40'	8/22/2012	40	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	0.012	0.61	---	---	---	---
AS-1-45'	8/22/2012	45	---	---	---	0.55	<0.0024	<0.0024	<0.0024	<0.0049	---	0.76	0.24	---	---	---	---
EW-1-5.5'	8/20/2012	5.5	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-1-10'	8/20/2012	10	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-1-12.5'	8/20/2012	12.5	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-1-15.5'	8/20/2012	15.5	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-1-17.5'	8/20/2012	17.5	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-1-20.5'	8/20/2012	20.5	---	---	---	0.12	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	0.083	---	---	---	---
EW-1-22.5'	8/20/2012	22.5	---	---	---	0.33	<0.0010	<0.0010	<0.0010	<0.0020	---	0.0035	0.39	---	---	---	---

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPHmo (mg/kg)</i>	<i>TPHd (mg/kg)</i>	<i>TPHg (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
EW-2-5.5'	8/20/2012	5.5	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-2-10'	8/20/2012	10	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-2-15'	8/20/2012	15	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-2-20'	8/20/2012	20	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.049	---	---	---	---
EW-2-25'	8/20/2012	25	---	---	---	<0.098	<0.00098	<0.00098	<0.00098	<0.0020	---	<0.0020	<0.049	---	---	---	---
EW-2-30'	8/20/2012	30	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
EW-2-35'	8/20/2012	35	---	---	---	<b>110</b>	<0.20	<0.20	<0.20	<0.40	---	<0.50	<10	---	---	---	---
EW-2-40'	8/20/2012	40	---	---	---	0.30	<0.00098	<0.00098	<0.00098	<0.0020	---	<b>0.094</b>	<0.049	---	---	---	---
P-1-1.5	8/21/2012	1.5	---	---	---	<0.098	<0.00098	<0.00098	<0.00098	<0.0020	---	<0.0020	<0.049	---	---	---	---
P-1-10	8/21/2012	10	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-1-14.5	8/21/2012	14.5	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-1-16.5	8/21/2012	16.5	---	---	---	0.85	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-1-20	8/21/2012	20	---	---	---	1.0	<0.0010	<0.0010	<0.0010	<0.0020	---	0.0020	<b>0.21</b>	---	---	---	---
P-1-21.5	8/21/2012	21.5	---	---	---	0.49	<0.00099	<0.00099	<0.00099	<0.0020	---	0.0029	<b>0.42</b>	---	---	---	---
P-2-5.5'	8/22/2012	5.5	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-2-10'	8/22/2012	10	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-2-15'	8/22/2012	15	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-2-20'	8/22/2012	20	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
P-2-25'	8/22/2012	25	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<b>0.24</b>	---	---	---	---
P-2-30'	8/22/2012	30	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	0.0030	0.066	---	---	---	---
P-2-35'	8/22/2012	35	---	---	---	0.24	0.0098	<0.0010	<0.0010	<0.0020	---	<b>0.080</b>	<b>0.29</b>	---	---	---	---
P-2-40'	8/22/2012	40	---	---	---	0.21	<0.0010	<0.0010	0.0020	<0.0020	---	0.016	<b>0.20</b>	---	---	---	---
SVE-5-5.5	8/21/2012	5.5	---	---	---	<0.098	<0.00098	<0.00098	<0.00098	<0.0020	---	<0.0020	<0.049	---	---	---	---
SVE-5-10	8/21/2012	10	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	<0.0020	<0.050	---	---	---	---
SVE-5-15	8/21/2012	15	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---

**HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>O&amp;G (mg/kg)</i>	<i>TPH<sub>mo</sub> (mg/kg)</i>	<i>TPH<sub>d</sub> (mg/kg)</i>	<i>TPH<sub>g</sub> (mg/kg)</i>	<i>B (mg/kg)</i>	<i>T (mg/kg)</i>	<i>E (mg/kg)</i>	<i>X (mg/kg)</i>	<i>E &amp; X (mg/kg)</i>	<i>MTBE (mg/kg)</i>	<i>TBA (mg/kg)</i>	<i>DIPE (mg/kg)</i>	<i>ETBE (mg/kg)</i>	<i>TAME (mg/kg)</i>	<i>Ethanol (mg/kg)</i>
SVE-5-20	8/21/2012	20	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
SVE-5-25	8/21/2012	25	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	<0.0020	<0.050	---	---	---	---
SVE-5-30	8/21/2012	30	---	---	---	<0.10	<0.0010	<0.0010	<0.0010	<0.0020	---	0.0025	<0.050	---	---	---	---
SVE-5-35	8/21/2012	35	---	---	---	<0.099	<0.00099	<0.00099	<0.00099	<0.0020	---	0.0028	<0.049	---	---	---	---
SVE-5-40	8/21/2012	40	---	---	---	0.21	<0.0019	<0.0019	<0.0019	<0.0039	---	<b>0.13</b>	<0.097	---	---	---	---
<i>Shallow Soil (≤10 fbg) ESL<sup>g</sup>:</i>			NA	2,500	83	83	0.044	2.9	3.3	2.3	NA	0.023	0.075	NA	NA	NA	NA
<i>Deep Soil (&gt;10 fbg) ESL<sup>g</sup>:</i>			NA	5,000	83	83	0.044	2.9	3.3	2.3	NA	0.023	0.075	NA	NA	NA	NA

Notes:

O&amp;G = Oil and grease analyzed by EPA Method 1664 A (Modified)

TPH<sub>mo</sub> = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015 (Modified)TPH<sub>d</sub> = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015 (Modified)TPH<sub>g</sub> = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before July 6, 2006, analyzed by EPA Method 8015

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before July 6, 2006, analyzed by EPA Method 8020 unless otherwise noted

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before July 6, 2006, analyzed by EPA Method 8020

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Ethanol analyzed by EPA Method 8260B

fbg = Feet below grade

mg/kg = Milligrams per kilogram

ND = Not detected; detection limit unknown

&lt;x = Not detected at reporting limit x

--- = Not analyzed

NA = No applicable ESL

Results in **bold** equal or exceed applicable ESL

a = Analyzed by EPA Method 8015

b = Hydrocarbons reported as TPH<sub>d</sub> do not exhibit a typical Diesel chromatographic pattern. These hydrocarbons are higher boiling than typical diesel fuel.

d = Hydrocarbon result partly due to individual peak(s) in quantitation range

e = The reporting limit is elevated resulting from matrix interference.

f = Results were evaluated to the MDL, and concentration was &gt;= to the MDL but &lt; RL

HISTORICAL SOIL ANALYTICAL DATA - PETROLEUM HYDROCARBONS, FUEL OXYGENATES, AND ETHANOL  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

<i>Sample ID</i>	<i>Date</i>	<i>Depth</i> <i>(fbg)</i>	<i>O&amp;G</i> <i>(mg/kg)</i>	<i>TPHmo</i> <i>(mg/kg)</i>	<i>TPHd</i> <i>(mg/kg)</i>	<i>TPHg</i> <i>(mg/kg)</i>	<i>B</i> <i>(mg/kg)</i>	<i>T</i> <i>(mg/kg)</i>	<i>E</i> <i>(mg/kg)</i>	<i>X</i> <i>(mg/kg)</i>	<i>E &amp; X</i> <i>(mg/kg)</i>	<i>MTBE</i> <i>(mg/kg)</i>	<i>TBA</i> <i>(mg/kg)</i>	<i>DIPE</i> <i>(mg/kg)</i>	<i>ETBE</i> <i>(mg/kg)</i>	<i>TAME</i> <i>(mg/kg)</i>	<i>Ethanol</i> <i>(mg/kg)</i>
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g = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is a potential source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* , California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May

TABLE 2A  
 AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST -  
 WATER QUALITY OBSERVATION WELL DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Date & Time (m/d/yy hh:mm)	Elapsed Time (hours)	Injection Pres. (psi)	Air Flow (cfm)	DTW (fbg)	MW-4							EW-2									
					DTW (fbg)	Vacuum (in WC)	Water Level Change (ft WC)	pH	ORP (millivolts)	Dissolved Oxygen (mg/L)	Vapor Conc. (ppmv)	Helium Conc. (ppmv)	DTW (fbg)	Vacuum (in WC)	Water Level Change (ft WC)	pH	ORP (millivolts)	Dissolved Oxygen (mg/L)	Vapor Conc. (ppmv)	Helium Conc. (ppmv)	
Static Data 9/11/2012								6.68	-76.90	2.91											
Static Data 9/12/2012					34.12									34.10				6.51	94.6	4.29	
<b>SVE only: SVE in SVE-5</b>																					
9/12/12 9:20	0.00	NM	NM		NM	0.0	NM	7.10	79.5	11.02	NM	NM	NM	13.5	NM		6.82	87.8	7.05	NM	NM
9/12/12 9:50	0.50	NM	NM		NM	0.0	NM	7.09	79.8	11.72	NM	NM	NM	14.0	NM		6.81	86.8	7.02	NM	NM
9/12/12 10:20	1.00	NM	NM		NM	0.0	NM	7.10	80.4	10.96	NM	NM	NM	18.2	NM		6.80	86.7	7.02	NM	NM
9/12/12 10:50	1.50	NM	NM		34.24	0.0	0.1	7.09	80.7	10.94	NM	NM	NM	17.2	NM		6.79	86.5	7.10	NM	NM
9/12/12 11:20	2.00	NM	NM		NM	0.0	NM	7.09	81.3	10.94	NM	NM	NM	17.4	NM		6.78	87.1	7.22	NM	NM
<b>Step One at 25 psi: SVE in SVE-5 and AS in AS-1</b>																					
9/12/12 11:35	2.25	25	5.0		34.25	NM	0.1	NM	NM	NM	NM	NM	34.40	NM	0.3		NM	NM	NM	NM	NM
9/12/12 11:45	2.42	25	4.0		NM	0.0	NM	7.05	83.1	10.90	NM	NM	NM	18.0	NM		6.78	88.1	7.31	NM	NM
9/12/12 12:15	2.92	25	4.0		NM	0.0	NM	7.01	85.7	13.49	NM	NM	NM	17.3	NM		6.70	90.0	8.16	2.1	NM
9/12/12 12:45	3.42	25	4.0		NM	0.0	NM	7.08	85.6	12.50	NM	NM	NM	16.9	NM		6.67	91.0	9.26	NM	NM
<b>Step Two and Constant Rate at 40 psi: SVE in SVE-5 and AS in AS-1</b>																					
9/12/12 13:30	4.17	40	7.0		28.42	0.0	-5.7	7.10	84.5	21.23	NM	NM	33.69	15.2	-0.4		6.69	90.9	11.11	NM	NM
9/12/12 14:00	4.67	40	7.5		27.80	-5.0*	-6.3	7.21	81.8	14.76	NM	NM	NM	15.2	NM		6.75	90.8	11.21	2.2	NM
9/12/12 15:00	5.67	40	8.0		30.6	-5.8*	-3.5	7.29	79.2	15.05	NM	NM	33.29	15.1	-0.8		6.85	89.8	11.31	1.7	NM
9/12/12 15:15	5.92	40	8.0		NM	NM	NM	NM	NM	NM	NM	NM	33.17	NM	-0.9		NM**	NM**	NM**	NM	NM
9/12/12 16:00	6.67	40	8.5		23.70	NM	-10.4	7.20	72.9	9.45	NM	NM	NM	16.8	NM		NM**	NM**	NM**	2	600
9/12/12 16:30	7.17	NM	NM		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM		NM**	NM**	NM**	NM	25
9/12/12 17:00	7.67	40	7.5		22.6	NM	-11.5	7.37	75.5	13.91	NM	NM	32.93	15.3	-1.2		NM**	NM**	NM**	1.8	75
9/12/12 17:20	8.00	40	8.0		NM	NM	NM	NM	NM	NM	NM	NM	NM	15.9	NM		NM**	NM**	NM**	0.4	50
9/12/12 18:00	8.67	40	8.0		21.3	-2.0*	-12.8	7.50	72.3	14.27	928	6100	32.72	15.2	-1.4		NM**	NM**	NM**	NM	NM

**Abbreviations and Notes:**

m/d/yy hh:mm = month/day/year hour:minute.

psi = pounds per square inch.

cfm = cubic feet per minute.

conc. = concentration

ppmv = parts per million by volume

DTW = depth to water

fbg = feet below grade

\* Noticed pressure build up in MW-4, installed a pressure gauge to measure/ record

\*\*YSI data logger battery failure

ft WC = feet of water column

in. WC = inches of water column

mg/L = milligrams per liter

ORP = oxidation reduction potential

Pres. = pressure

Vac. = vacuum

NA/NM = not applicable or not measured

TABLE 2B  
 AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST  
 OBSERVATION WELL DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Date & Time (m/d/yy hh:mm)	Elapsed Time (hours)	Extraction Well											Observation Wells/Probes																	
		Injection Well		SVE-5					P-2				SVE-3			SVE-4			P-1			EW-1			EW-2					
		Injection Pres. (psi)	Air Flow (cfm)	DTW (fbg)	Water Level Change (ft WC)	Hydrocarbon Conc. (ppmv)	Helium Conc. (%v/v)	Casing Vac. (in. WC)	DTW (fbg)	Water Level Change (ft WC)	Hydrocarbon Conc. (ppmv)	Helium Conc. (%v/v)	Casing Vac. (in. WC)	Hydrocarbon Conc. (ppmv)	Helium Conc. (%v/v)	Casing Vac. (in. WC)	Hydrocarbon Conc. (ppmv)	Helium Conc. (%v/v)	Casing Vac. (in. WC)	Hydrocarbon Conc. (ppmv)	Helium Conc. (%v/v)	Casing Vac. (in. WC)	DTW (fbg)	Water Level Change (ft WC)	Hydrocarbon Conc. (ppmv)	Helium Conc. (%v/v)	Casing Vac. (in. WC)			
Static Data 9/11/2012							31.91						34.02																	
SVE only: SVE in SVE-5																														
9/12/12 9:20				NM	NM	NM	NM	46.2	34.56	0.54	NM	NM	1.6	NM	NM	2.7	NM	NM	12.6	NM	NM	0.0	NM	NM	0.6	NM	NM	NM	NM	13.5
9/12/12 9:50				NM	NM	926	NM	72.7	34.58	0.56	NM	NM	1.2	NM	NM	2.5	NM	NM	13.0	NM	NM	0.0	NM	NM	0.0	NM	NM	NM	NM	14.0
9/12/12 10:20				NM	NM	745	NM	100.1	34.59	0.57	NM	NM	1.8	NM	NM	3.3	NM	NM	13.4	NM	NM	0.0	NM	NM	0.6	NM	NM	NM	NM	18.2
9/12/12 10:50				NM	NM	675	NM	102.1	34.60	0.58	NM	NM	1.7	NM	NM	3.2	NM	NM	16.5	NM	NM	0.0	NM	NM	0.0	NM	NM	NM	NM	17.2
9/12/12 11:20				NM	NM	625	NM	102.7	34.61	0.59	NM	NM	2.1	NM	NM	4.1	NM	NM	17.2	NM	NM	0.0	NM	NM	0.0	NM	NM	NM	NM	17.4
Step One at 25 psi: SVE in SVE-5 and AS in AS-1																														
9/12/12 11:35		25	5.0	NM	NM		NM		34.61	0.59	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
9/12/12 11:45		25	4.0	31.70	-0.21	673	NM	101.9	34.22	0.20	NM	NM	2.5	NM	NM	3.8	NM	NM	17.3	NM	NM	0.0	NM	NM	1.1	34.40	0.30	NM	NM	NM
9/12/12 12:15		25	4.0	NM		800	NM	101.6	34.51	0.48	3.4	NM	1.7	7.4	NM	3.0	1.4	NM	16.5	2.5	NM	0.0	3.0	NM	0.0	NM	NM	2.1	NM	17.3
9/12/12 12:45		25	4.0	NM		820	NM	100.5	34.43	0.41	NM	NM	1.8	NM	NM	3.2	NM	NM	16.3	NM	NM	0.0	NM	NM	0.0	NM	NM	NM	NM	16.9
Step Two and Constant Rate at 40 psi: SVE in SVE-5 and AS in AS-1																														
9/12/12 13:30		40	7.0	31.70	-0.21	953	NM	98.5	33.44	-0.58	NM	NM	1.7	NM	NM	3.0	NM	NM	15.1	NM	NM	0.0	NM	NM	0.7	33.69	-0.41	NM	NM	15.2
9/12/12 14:00		40	7.5	NM		1,078	NM	98.1	34.08	0.06	5.6	NM	1.8	8.3	NM	3.1	4.8	NM	15.7	2.7	NM	0.0	3.0	NM	1.0	NM	NM	2.2	NM	15.2
9/12/12 15:00		40	8.0	31.68	-0.23	976	NM	98.4	32.44	-1.58	4.0	NM	1.8	4.1	NM	2.9	2.3	NM	15.9	0.8	NM	0.0	1.8	NM	0.8	33.29	-0.81	1.7	NM	15.1
9/12/12 15:15		40	8.0	NM		NM	2.1%		33.86	-0.16	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	33.17	-0.93	NM	NM	NM
9/12/12 16:00		40	8.5	31.70	-0.21	867	4,650	98.2	32.17	-1.85	2.0	0	2.2	1.0	250	3.3	2.5	100	16.2	0.7	0	0.0	1.0	750	1.0	NM	NM	2.0	600	16.8
9/12/12 16:30		NM	NM	NM		NM	NM		33.44	-0.58	NM	NM	NM	NM	0	NM	NM	50	NM	NM	0	NM	NM	0	NM	NM	NM	NM	25	NM
9/12/12 17:00		40	7.5	31.65	-0.26	991	2.4%	96.3	33.50	-0.52	3.6	50	1.9	0.4	0	3.1	1.7	25	15.9	0.5	0	0.6	1.0	275	1.2	32.93	-1.17	1.8	75	15.3
9/12/12 17:20		40	8.0	NM		NM	NM		33.46	-0.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	15.9
9/12/12 18:00		40	8.0	31.45	-0.46	1,030	2,250	97.9	33.45	-0.57	2.5	0	1.2	0.4	0	2.9	0.6	325	16.4	0.2	0	0.0	0.3	50	0.5	32.72	-1.38	0.4	50	15.2

**Abbreviations and Notes:**

m/d/yy hh:mm = month/day/year hour:minute.  
 psi = pounds per square inch.  
 cfm = cubic feet per minute.  
 conc. = concentration  
 ppmv = parts per million by volume  
 DTW = depth to water  
 fbg = feet below grade  
 Helium test started at 15:15

ft WC = feet of water column  
 in. WC = inches of water column  
 mg/L = milligrams per liter  
 ppmv = parts per million by volume  
 ORP = oxygen reduction potential  
 Pres. = pressure  
 Vac. = vacuum  
 Blank cell = not applicable or not measured

AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST  
 VAPOR ANALYTICAL DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well ID	Date and Time	TPHg (ppmv)	MTBE (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylenes (ppmv)
EW-1	9/11/12 7:30	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/11/12 19:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 9:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 11:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 18:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
MW-4	9/12/12 18:00	550	18	<0.63	<0.53	0.79	<1.4
EW-2	9/12/12 9:00	3,800	<2.8	<3.1	<2.7	<2.3	<6.9
	9/12/12 11:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 18:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
P-2	9/11/12 7:30	580	<0.55	<0.63	<0.53	<0.46	<1.4
	9/11/12 19:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 9:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 11:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 18:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
SVE-3	9/11/12 7:30	170	<0.55	<0.63	<0.53	<0.46	<1.4
	9/11/12 19:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 9:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 11:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 18:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
SVE-4	9/11/12 7:30	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/11/12 19:00	190	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 9:00	100	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 11:00	33	<0.55	<0.63	<0.53	<0.46	<1.4
	9/12/12 18:00	<24	<0.55	<0.63	<0.53	<0.46	<1.4
SVE-5	9/11/12 7:30	<24	<0.55	<0.63	<0.53	<0.46	<1.4
	9/11/12 16:15	1,400	<0.55	0.80	<0.53	2.2	3.0
	9/11/12 19:00	1,000	<0.55	1.0	<0.53	2.2	3.0
	9/12/12 9:00	1,000	<0.55	0.74	<0.53	2.1	4.5
	9/12/12 10:10	630	<0.55	1.3	<0.53	3.0	6.4
	9/12/12 11:00	370	<0.55	0.74	<0.53	1.5	2.5
	9/12/12 12:15	190	<0.55	<0.63	<0.53	0.79	1.5
	9/12/12 14:00	510	<0.55	0.72	<0.53	1.1	1.8
	9/12/12 16:00	370	<0.55	0.80	<0.53	1.1	1.7
9/12/12 18:00	300	<0.55	<0.63	<0.53	0.61	<1.4	
INF-2	9/11/12 12:45	710	<0.55	0.75	<0.53	3.6	6.3
	9/11/12 19:00	1,200	<0.55	1.1	<0.53	3.3	6.1
	9/12/12 10:10	570	<0.55	1.2	<0.53	2.5	5.1
	9/12/12 11:00	550	<0.55	0.91	<0.53	3.0	6.2
	9/12/12 12:15	650	<0.55	1.4	<0.53	3.6	8.3
	9/12/12 14:00	720	<0.55	1.0	<0.53	3.4	6.8
	9/12/12 16:00	740	<0.55	1.7	<0.53	4.3	9.0
	9/12/12 18:00	1,100	<0.55	1.4	<0.53	4.2	8.7

AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST  
VAPOR ANALYTICAL DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA

**Abbreviations and Notes:**

TPHg = total petroleum hydrocarbons as gasoline by EPA Method TO-3M

MTBE = methyl tertiary-butyl ether by EPA Method 8260B

BTEX = benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B

ppmv = parts per million by Volume

<x = less than the laboratory method reporting limit

NA = not analyzed



TABLE 4  
 AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST  
 SOIL VAPOR EXTRACTION DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Date/Time	Cumulative Operation (hours)	Hour meter (Hrs)	Infl-1 Vacuum (in.WC)	Infl-1 Temp. (°F)	Infl-1 Vapor Flow Rate		Infl-1 Vapor Conc. (ppmv)	Infl-1 Helium Conc. (ppmv)	Blower Vac (in. Hg)	Inf-2 Pressure (in.WC)	Inf-2 Temp. (°F)	Infl-2 Vapor Flow Rate			Infl-2 Vapor Conc. (ppmv)	Infl-2 Hydrocarbon Concentrations (ppmv)			TPHg		Benzene		MTBE		Notes
					(acfm)	(scfm)						(fpm)	(acfm)	(scfm)		TPHg	Benzene	MTBE	Removal Rate (lbs/day)	Cumulative Removed (lbs)	Removal Rate (lbs/day)	Cumulative Removed (lbs)	Removal Rate (lbs/day)	Cumulative Removed (lbs)	
9/12/12 9:20	0.00	6831.0	46.2	71.4	134	118.0	>15,000 A	NM	15.0	0.35	163	2,400	209	177.7	>15,000 A				37.777	0.000	0.062	0.000	0.032	0.000	Start SVE on SVE-5
9/12/12 9:50	0.6	6831.6	72.7	75.0	172	139.4	926	NM	15.5	0.35	159	2,400	209	178.8	930				38.021	0.951	0.062	0.002	0.032	0.001	
9/12/12 10:10	1.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	570	1.2	<0.55	38.021	1.584	0.062	0.003	0.032	0.001	
9/12/12 10:20	1.1	6832.1	100.1	76.8	218 b	161.7	745	NM	15.5	0.30	158	2,300	201	171.6	863				35.851	1.734	0.053	0.003	0.031	0.001	
9/12/12 10:50	1.5	6832.5	102.1	75.3	218 b	161.1	675	NM	14.0	0.45	160	2,600	227	193.4	815				40.412	2.407	0.061	0.004	0.036	0.002	
9/12/12 11:00	1.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	550	0.91	<0.55	39.690	2.738	0.052	0.004	0.036	0.002	
9/12/12 11:20	2.0	6833.0	102.7	66.3	217	162.7	625	NM	14.5	0.45	161	2,600	227	193.1	765				43.228	3.278	0.066	0.005	0.036	0.003	
9/12/12 11:45	2.5	6833.5	101.9	66.2	218 b	164.0	673	NM	14.5	0.40	161	2,500	218	185.7	781				41.561	4.144	0.064	0.006	0.034	0.004	
9/12/12 12:15	2.9	6833.9	101.6	66.0	218 b	164.2	800	NM	14.5	0.45	163	2,600	227	192.5	966	650	1.4	<0.55	46.680	4.922	0.063	0.007	0.035	0.004	
9/12/12 12:45	3.6	6834.6	100.5	67.2	218 b	164.4	820	NM	15.0	0.45	162	2,600	227	192.8	964				49.273	6.359	0.069	0.009	0.036	0.005	
9/12/12 13:30	4.2	6835.2	98.5	66.8	218 b	165.6	953	NM	15.0	0.48	162	2,650	231	196.5	1,070				50.224	7.615	0.070	0.011	0.036	0.006	
9/12/12 14:00	4.7	6835.7	98.1	67.3	218 b	165.7	1,078	NM	15.0	0.45	163	2,600	227	192.5	1,310	720	1.0	<0.55	51.708	8.692	0.057	0.012	0.035	0.007	
9/12/12 15:00	5.7	6836.7	98.4	66.1	218 b	165.9	976	NM	15.0	0.48	164	2,650	231	195.9	1,347				53.352	10.915	0.079	0.016	0.036	0.008	
9/12/12 15:30	6.2	6837.2	98.5	64.5	218 b	166.3	1,083	2.1%	15.0	0.50	164	2,700	236	199.6	1,365				54.362	12.048	0.080	0.017	0.037	0.009	
9/12/12 16:00	6.7	6837.7	98.2	66.5	218 b	165.9	864	4,650	15.0	0.50	169	2,700	236	198.0	1,015	740	1.7	<0.55	54.668	13.187	0.100	0.019	0.037	0.010	
9/12/12 17:00	7.7	6838.7	96.3	65.1	218 b	167.3	991	2.4%	15.0	0.55	169	2,800	244	205.4	1,170				70.492	16.124	0.095	0.023	0.038	0.011	
9/12/12 18:00	8.8	6839.8	97.9	65.8	218 b	166.2	1,030	2,250	15.0	0.55	164	2,800	244	207.0	1,267	1,100	1.4	<0.55	84.959	20.018	0.086	0.027	0.038	0.013	

Total Pounds Extracted: 20.0  
 Averaged Daily Extraction Rate 54.59 0.075 0.027 0.036 0.013

**Abbreviations and Notes:**

in. Hg = inches of mercury column.  
 in.WC = inches of water column.  
 acfm = actual cubic feet per minute.  
 scfm = standard cubic feet per minute.  
 °F = degrees fahrenheit  
 lbs/day = pounds per day  
 Inf-1 = pre-dilution  
 Inf-2 = post dilution  
 temp. = Temperature

Conc. = Concentration  
 Atmospheric pressure = 406.86 in.wC.  
 $scfm = acfm \times ((406.86 \text{ [in.wC]} + \text{discharge pressure [in.wC]}) / 406.86 \text{ [in.wC]}) \times (528 \text{ [°R]} / (\text{Discharge temperature [°F]} + 460))$   
 TPHg = Total purgeable hydrocarbons as gasoline  
 $\text{Removal/Emission Rate} = C \text{ (ppmv)} \times Q \text{ (cfm)} \times (1 \text{ lb-mole} / 386 \text{ ft}^3) \times MW \text{ (lb/lb-mole)} \times 60 \text{ min/hr} \times 24 \text{ hr/day} \times 10^{-6}$   
 where; C = concentration, Q = flow, MW = molecular weight (100 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, and 88 lb/lb-mole for MTBE)  
 - = not measured or not applicable  
 a = Dilution flow not converted to scfm. The total flow is approximate.  
 b = anemometer flow limit of 218 cfm reached. Flow is greater than or equal to 218 acfm.

TABLE 5

AIR SPARGE/SOIL VAPOR EXTRACTION PILOT TEST  
HELIUM TRACER DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Time	Elapsed Time (hours)	Sparge Pressure (psi)	Sparge flow rate (cfm)	AS-1		Helium Conc (% v)	SVE-5	EW-2	P-2	SVE-3	SVE-4	P-1	EW-1	Notes
				Helium Pressure (psi)	Helium flow rate (cfm)		Helium Conc (% v)	Helium Conc (% v)	Helium Conc (% v)	Helium Conc (% v)	Helium Conc (% v)	Helium Conc (% v)		
9/12/12 15:00	0.00	40	8.0	0	0	0.00	0.0	0.00	NM	NM	NM	NM	NM	Start of helium tracer test
9/12/12 15:15	0.25	40	8.0	80	4.0	16.5 %	NM	NM	NM	NM	NM	NM	NM	
9/12/12 16:00	0.75	40	8.5	0	0	NM	4,650	600	0	250	100	0	75	
9/12/12 17:00	1.00	40	7.5	78	3.0	9.2 %	2.4 %	75	75	0	50	0	0.0	
9/12/12 17:20	0.33	40	8.0	43	4.0	NM	NM	NM	50	0	25	25	275	
9/12/12 18:00	0.67	40	8.0	NM	0	2,375	2,250	50	0.0	0	325	0	50	End of helium tracer test
Distance from AS-1 (feet):							10	16	18	22.5	7	28	25	

Notes and Abbreviations:

psi = pounds per square inch

cfm = cubic feet per minute

%v = percent by volume

conc = concentration

NM = not measured

TABLE 6

DPE PILOT TEST  
- OBSERVATION DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Date	Hour Meter (Hrs)	Elapsed Time (Hrs)	Casing Vacuum (in WC)	EW-2		MW-4		SVE-3		SVE-4		SVE-5		P-1		P-2	
				DTW (ft)	Vacuum (in WC)	DTW (ft) b	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft) b	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)
09/13/12			Static DTW:	35.98		34.12 a		--		--		33.06 a		--		34.87	
09/14/12			Static DTW:	36.42		34.13 a		--		--		33.06 a		--		35.35	
<b>Tests at EW-2</b>				<b>EW-1</b>	<b>MW-4</b>	<b>SVE-3</b>	<b>SVE-4</b>	<b>SVE-5</b>	<b>P-1</b>	<b>P-2</b>							
<b>Step #1</b>																	
9/13/12 11:00	6841.1	0.0	103.3	--	0.0	34.376	0.0	--	0.9	--	2.4	33.491	3.8	--	0.0	35.044	1.2
9/13/12 11:30	6841.6	0.5	99.1	--	0.0	34.337	0.0	--	1.2	--	2.5	33.527	3.6	--	0.0	35.051	0.6
9/13/12 12:00	6842.0	0.9	100.4	--	0.6	34.325	0.0	--	1.3	--	3.1	33.536	4.3	--	0.0	35.047	0.9
<b>Step #2</b>																	
9/13/12 12:15	6842.3	1.2	159.0	--	0.0	34.319	0.0	--	1.4	--	3.4	33.639	5.7	--	0.0	35.055	0.8
9/13/12 12:45	6843.0	1.9	148.3	--	0.0	34.323	0.0	--	1.4	--	3.1	33.647	5.5	--	0.0	35.053	1.0
9/13/12 13:15	6843.3	2.2	164.1	--	0.0	34.329	0.0	--	1.3	--	3.6	33.683	5.8	--	0.0	35.053	0.8
<b>Step #3</b>																	
9/13/12 13:30	6843.6	2.5	249.5	--	0.0	34.331	0.0	--	1.7	--	4.2	33.756	7.7	--	0.0	35.057	1.7
9/13/12 14:00	6844.1	3.0	247.8	--	0.0	34.351	0.0	--	1.8	--	4.3	33.835	8.0	--	0.0	35.055	1.1
9/13/12 14:30	6844.5	3.4	246.9	--	--	34.376	0.0	--	2.1	--	4.6	33.845	8.2	--	0.0	35.038	1.3
<b>Step #4</b>																	
9/13/12 15:00	6845.0	3.9	50.7	--	0.0	34.406	0.0	--	0.0	--	1.5	33.529	2.7	--	0.0	35.032	0.0
<b>Step #5</b>																	
9/13/12 15:15	6845.2	4.1	222.4	--	--	34.416	0.0	--	1.7	--	4.5	33.845	7.6	--	0.0	35.047	0.9
<b>CONSTANT</b>																	
9/13/12 15:30	6845.6	4.5	152.5	--	0.0	34.437	0.0	--	1.8	--	4.3	33.785	7.0	--	0.0	35.051	1.3
9/13/12 16:00	6846.0	4.9	153.5	--	0.0	34.459	0.0	--	1.8	--	4.1	33.483	7.0	--	0.0	35.045	1.1
9/13/12 16:30	6846.6	5.5	152.5	--	0.0	34.48	0.0	--	1.1	--	3.3	33.827	6.1	--	0.0	35.045	0.8
9/13/12 17:00	6847.1	6.0	151.4	--	0.0	34.5	0.0	--	1.3	--	3.4	33.856	6.1	--	0.0	35.051	0.8
9/13/12 17:30	6847.5	6.4	155.5	--	0.0	34.525	0.0	--	1.4	--	4.5	33.746	6.4	--	0.0	35.059	0.9
9/13/12 18:00	6848.1	7.0	153.5	--	0.0	34.535	0.0	--	1.3	--	3.0	33.835	6.3	--	0.0	35.082	0.8
9/13/12 18:30	6848.6	7.5	145.5	--	0.0	--	0.0	--	1.3	--	3.5	33.9	6.4	--	0.0	35.085	0.9

TABLE 6

DPE PILOT TEST  
- OBSERVATION DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA

Date	Hour Meter (Hrs)	Elapsed Time (Hrs)	Casing Vacuum (in WC)	EW-2		MW-4		SVE-3		SVE-4		SVE-5		P-1		P-2	
				DTW (ft)	Vacuum (in WC)	DTW (ft) b	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft) b	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)
<b>Tests at EW-1</b>				<b>EW-2</b>	<b>MW-4</b>	<b>SVE-3</b>	<b>SVE-4</b>	<b>SVE-5</b>	<b>P-1</b>	<b>P-2</b>							
<b>Step #1</b>																	
9/14/12 9:00	6849.5	0.0	101.3	--	0.9	34.13	0.0	--	1.8	--	0.7	33.104	0.7	--	3.2	35.061	2.0
9/14/12 9:30	6850.1	0.6	96.7	36.20	0.0	34.128	0.0	--	0.8	--	0.0	33.119	0.0	--	2.0	35.056	0.9
9/14/12 10:00	6850.5	1.0	98.5	--	0.0	34.126	0.0	--	1.5	--	0.0	33.135	0.0	--	2.8	35.054	1.8
<b>Step #2</b>																	
9/14/12 10:15	6850.8	1.3	149.5	--	0.9	34.126	0.0	--	2.4	--	0.7	33.149	0.8	--	4.1	35.071	2.5
9/14/12 10:45	6851.3	1.8	147.0	36.10	0.0	34.124	0.0	--	1.9	--	0.0	33.161	0.0	--	2.5	35.069	1.8
9/14/12 11:15	6851.8	2.3	147.7	--	0.8	34.12	0.0	--	2.3	--	0.0	33.179	0.6	--	4.1	35.064	2.5
<b>Step #3</b>																	
9/14/12 11:30	6852.1	2.6	168.5	--	0.6	34.116	0.0	--	2.0	--	0.0	33.187	0.6	--	4.1	35.071	2.3
9/14/12 12:00	6852.5	3.0	166.3	36.05	0.6	34.109	0.0	--	2.1	--	0.7	33.198	0.6	--	4.2	35.061	2.4
9/14/12 12:30	6853.0	3.5	162.0	--	1.0	34.095	0.0	--	2.5	--	0.8	33.206	0.9	--	4.6	35.048	2.8
<b>Step #4</b>																	
9/14/12 12:45	6853.3	3.8	48.0	--	0.0	34.083	0.0	--	1.2	--	0.0	33.191	0.0	--	2.0	34.998	1.1
9/14/12 13:15	6853.9	4.4	50.5	35.97	0.0	34.071	0.0	--	1.5	--	0.0	33.2	0.0	--	2.0	34.989	1.5
<b>CONSTANT</b>																	
9/14/12 13:45	6854.3	4.8	158.7	--	0.7	34.065	0.0	--	2.2	--	0.7	33.232	0.6	--	4.3	35.027	2.4
9/14/12 14:30	6855.3	5.8	156.4	35.90	1.1	34.048	0.0	--	2.2	--	0.8	33.246	0.9	--	4.2	35.008	2.4
9/14/12 15:00	6855.6	6.1	154.5	--	0.8	34.032	0.0	--	2.7	--	0.6	33.254	0.6	--	5.0	34.993	3.0
9/14/12 15:30	6856.1	6.6	154.3	--	1.3	34.022	0.0	--	2.3	--	0.9	33.262	1.0	--	4.3	34.983	2.6
9/14/12 16:00	6856.7	7.2	151.4	--	0.9	34.014	0.0	--	2.9	--	0.6	33.271	0.7	--	5.0	34.974	3.1
9/14/12 16:30	6857.1	7.6	151.8	35.85	--	34.001	--	--	--	--	--	33.252	--	--	--	34.917	--
9/14/12 16:45	6857.4	7.9	153.5	--	0.8	33.999	--	--	2.7	--	0.7	33.273	0.6	--	5.2	34.962	3.2

Testing from EW-2	EW-1	MW-4	SVE-3	SVE-4	SVE-5	P-1	P-2
Distance from EW-2 (ft)	30	9.7	24	15.3	8	38	19.1
Maximum DTW (ft)	NA	34.54	NA	NA	33.90	NA	35.09
Max Drawdown (ft)	NA	0.41	NA	NA	0.84	NA	0.22
Testing from EW-1	EW-2	MW-4	SVE-3	SVE-4	SVE-5	P-1	P-2
Distance from EW-1 (ft)	30	22	13.4	36	35.5	11.5	9.5
Maximum DTW (ft)	36.20	34.13	NA	NA	33.27	NA	35.07
Max Drawdown (ft)	0.22	0.00	NA	NA	0.21	NA	0.28

TABLE 6

DPE PILOT TEST  
 - OBSERVATION DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Date	Hour Meter (Hrs)	Elapsed Time (Hrs)	Casing Vacuum (in WC)	EW-2		MW-4		SVE-3		SVE-4		SVE-5		P-1		P-2	
				DTW (ft)	Vacuum (in WC)	DTW (ft) b	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft) b	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)	DTW (ft)	Vacuum (in WC)

**Abbreviations and Notes**

in WC = Inches of water column

Hrs = Hours

DTW = Depth to water

Ft = Feet

-- = Not measured

a = data point taken from transducer immediately before test begins. Transducer recorded previous day's initial depth to water.

**TABLE 7**  
**DPE PILOT TEST**  
**GROUNDWATER EXTRACTION**  
**SHELL-BRANDED SERVICE STATION**  
**4212 FIRST STREET, PLEASANTON, CALIFORNIA**

Date Time	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Cumulative Volume (gal)	Flow Rate (gpm)	TPHg Conc. (ug/L)	TPHg Period Removal (pounds)	TPHg Cumulative Removal (pounds)	Benzene Conc. (ug/L)	Benzene Period Removal (pounds)	Benzene Cumulative Removal (pounds)	Toluene Conc. (ug/L)	Toluene Period Removal (pounds)	Toluene Cumulative Removal (pounds)	Ethyl benzene Conc. (ug/L)	Ethyl benzene Period Removal (pounds)	Ethyl benzene Cumulative Removal (pounds)	Xylene Conc. (ug/L)	Xylene Period Removal (pounds)	Xylene Cumulative Removal (pounds)	MTBE Conc. (ug/L)	MTBE Period Removal (pounds)	MTBE Cumulative Removal (pounds)
<b>EW-2</b>																							
<b>Well Sample Analytical Results</b>																							
Step #1		initial totalizer: 34881.3																					
9/7/12 11:16						3,600			< 25			< 25			< 25			< 50			4,100		
9/13/12 10:45	6840.8	--	0.0	0.0	0		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/13/12 11:00	6841.1	34888.5	7.2	7.2	0.48		0.0002	0.0002		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0002	0.0002
9/13/12 11:30	6841.6	34889.0	0.5	7.7	0.02		0.0000	0.0002		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0002
9/13/12 12:00	6842.0	34891.2	2.2	9.9	0.07		0.0001	0.0003		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0003
Step #2																							
9/13/12 12:15	6842.3	34892.0	0.8	10.7	0.05		0.0000	0.0003		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0003
9/13/12 12:45	6843.0	34894.5	2.5	13.2	0.08		0.0001	0.0004		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0004
9/13/12 13:15	6843.3	34897.5	3.0	16.2	0.10		0.0001	0.0005		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0005
Step #3																							
9/13/12 13:30	6843.6	34898.7	1.2	17.4	0.08		0.0000	0.0005		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0005
9/13/12 14:00	6844.1	34903.4	4.7	22.1	0.16		0.0001	0.0007		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0007
9/13/12 14:30	6844.5	34904.5	1.1	23.2	0.04		0.0000	0.0007		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0007
Step #4																							
9/13/12 15:00	6845.0	34909.6	5.1	28.3	0.17		0.0002	0.0009		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0002	0.0009
Step #5																							
9/13/12 15:15	6845.2	34910.9	1.3	29.6	0.09		0.0000	0.0009		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0009
<b>CONSTANT</b>																							
9/13/12 15:30	6845.6	34913.2	2.3	31.9	0.15		0.0001	0.0010		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0010
9/13/12 16:00	6846.0	34915.1	1.9	33.8	0.06		0.0001	0.0010		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0011
9/13/12 16:30	6846.6	34918.8	3.7	37.5	0.12		0.0001	0.0012		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0012
9/13/12 17:00	6847.1	34921.6	2.8	40.3	0.09		0.0001	0.0012		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0013
9/13/12 17:30	6847.5	34923.9	2.3	42.6	0.08		0.0001	0.0013		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0013
9/13/12 18:00	6848.1	34925.8	1.9	44.5	0.06		0.0001	0.0014		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0014
9/13/12 18:30	6848.6	34927.5	1.7	46.2	0.06		0.0001	0.0014		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0001	0.0014
9/13/12 19:00	6849.1	NM	--	--	--	3,800	--	--	< 25	--	--	< 25	--	--	< 25	--	--	< 50	--	--	3,400	--	--
<b>EW-1</b>																							
<b>Well Sample Analytical Results</b>																							
Step #1																							
9/14/12 8:30						< 50			< 0.50			< 0.50			< 0.50			< 1.0			3.9		
9/14/12 9:00	6849.5	34927.5	0.0	0.0	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 9:30	6850.1	34928.9	1.4	1.4	0.05		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 10:00	6850.5	34929.1	0.2	1.6	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
Step #2																							
9/14/12 10:15	6850.8	34929.5	0.4	2.0	0.03		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 10:45	6851.3	34929.9	0.4	2.4	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 11:15	6851.8	34930.0	0.1	2.5	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
Step #3																							
9/14/12 11:30	6852.1	34930.4	0.4	2.9	0.03		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 12:00	6852.5	34930.7	0.3	3.2	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 12:30	6853.0	34931.0	0.3	3.5	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
Step #4																							
9/14/12 12:45	6853.3	34931.0	0.0	3.5	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 13:15	6853.9	34931.0	0.0	3.5	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
<b>CONSTANT</b>																							

**TABLE 7**  
**DPE PILOT TEST**  
**GROUNDWATER EXTRACTION**  
**SHELL-BRANDED SERVICE STATION**  
**4212 FIRST STREET, PLEASANTON, CALIFORNIA**

Date Time	Hour Meter (hours)	Flow Meter Reading (gal)	Period Volume (gal)	Cumulative Volume (gal)	Flow Rate (gpm)	TPHg Conc. (ug/L)	TPHg		Benzene Conc. (ug/L)	Benzene		Toluene Conc. (ug/L)	Toluene		Ethyl benzene		Xylene Conc. (ug/L)	Xylene		MTBE Conc. (ug/L)	MTBE	
							Period Removal (pounds)	Cumulative Removal (pounds)		Period Removal (pounds)	Cumulative Removal (pounds)		Period Removal (pounds)	Cumulative Removal (pounds)	Period Removal (pounds)	Cumulative Removal (pounds)		Period Removal (pounds)	Cumulative Removal (pounds)		Period Removal (pounds)	Cumulative Removal (pounds)
9/14/12 13:45	6854.3	34931.4	0.4	3.9	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 14:30	6855.2	34931.8	0.4	4.3	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 15:00	6855.6	34931.9	0.1	4.4	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 15:30	6856.1	34932.0	0.1	4.5	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 16:00	6856.7	34932.3	0.3	4.8	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 16:30	6857.1	-	0.0	4.8	0.00		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 16:45	6857.4	34932.5	0.2	5.0	0.01		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000
9/14/12 17:00						1,600			3.8			0.84			20		76			36		

**Abbreviations and Notes:**

- min = Minutes
- gal = Gallons
- mg = Milligrams
- µg/L = Micrograms
- gpm = Gallons per minute
- TPHg = Total petroleum hydrocarbons as gasoline
- cc = cubic centimeters
- L = Liters
- NM= No Measurement

When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.  
 Mass removal (pounds) based on the formula: volume extracted (gal) x Concentration (mg/L) x (g/10<sup>6</sup> ug/L) x pound/453.6g x (3.785 L/gal)  
 Volume removal (gallons) data based on the formula: mass (pounds) x (density)<sup>-1</sup> (cc/g) x 453.6 (g/pound) x (L/1000 cc) x (gal/3.785 L)  
 Density inputs: TPHg = 0.73 g/cc, Benzene = 0.88 g/cc, Toluene = 0.87 g/cc, Ethylbenzene = 0.87 g/cc, Xylene= 0.87 g/cc  
 TPHg and VOCs analyzed by EPA Method 8015 and 8260B

TABLE 8A

**DPE PILOT TEST-SOIL VAPOR EXTRACTION - USING INFL1 DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA**

Well # Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Infl-1 Vacuum in WC	Infl-1 Flow (acfm)	Infl-1 Flow (scfm)	Infl-1 Temp ° F	Infl-1 Vapor (ppmv)	Analytical Results			TPHg		Benzene		MTBE	
								TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
								(ppmv)			(lbs/day)	(lbs)	(lbs/day)	(lbs)	(lbs/day)	(lbs)
<b>EW-2</b>																
<b>Step #1</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/13/12 10:45	6840.8	0	59.5	54.0	45.4	76.6	474				16.416	0.00	0.016	0.000	0.008	0.000
9/13/12 11:00	6841.1	0.3	103.3	61.0	44.7	77.7	1,785	970	1.2	< 0.55	16.173	0.20	0.016	0.000	0.008	0.000
9/13/12 11:30	6841.6	0.8	99.1	65.0	48.0	81.4	830				17.352	0.56	0.017	0.001	0.009	0.000
9/13/12 12:00	6842.0	1.2	100.4	58.5	42.7	84.6	829				15.460	0.82	0.015	0.001	0.008	0.000
<b>Step #2</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/13/12 12:15	6842.3	1.5	159.0	84.5	49.8	85.3	895	940	2.0	< 0.55	17.480	1.04	0.029	0.001	0.009	0.001
9/13/12 12:45	6843.0	2.2	148.3	93.5	56.9	91.4	825				19.954	1.62	0.033	0.002	0.010	0.001
9/13/12 13:15	6843.3	2.5	164.1	83.5	47.9	88.8	992				16.810	1.83	0.028	0.002	0.009	0.001
<b>Step #3</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/13/12 13:30	6843.6	2.8	249.5	104	39.1	83.6	900				10.933	1.97	0.017	0.003	0.007	0.001
9/13/12 14:00	6844.1	3.3	247.8	112	42.4	85.2	975	750	1.5	< 0.55	11.866	2.22	0.019	0.003	0.008	0.001
9/13/12 14:30	6844.5	3.7	246.9	110	41.9	84.7	1,088				11.731	2.41	0.018	0.003	0.008	0.001
<b>Step #4</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/13/12 15:00	6845.0	4.2	50.7	50.5	42.3	92.4	928	700	1.3	< 0.55	11.034	2.64	0.016	0.004	0.008	0.001
<b>Step #5</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/13/12 15:15	6845.2	4.4	222.4	104	45.8	83.7	905	440	0.92	< 0.55	7.517	2.70	0.012	0.004	0.008	0.002
<b>Constant Rate</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/13/12 15:30	6845.6	4.8	152.5	110	66.1	89.5	851	390	0.88	< 0.55	9.615	2.86	0.012	0.004	0.012	0.002
9/13/12 16:00	6846.0	5.2	153.5	93.0	56.0	86.5	939				7.306	2.99	0.012	0.004	0.010	0.002
9/13/12 16:30	6846.6	5.8	152.5	95.5	57.4	88.8	847	<b>INF1 SAMPLES COLLECTED</b>			7.501	3.17	0.013	0.005	0.010	0.002
9/13/12 17:00	6847.1	6.3	151.4	95.0	57.8	84.7	835	310	0.65	< 0.55	6.687	3.31	0.011	0.005	0.010	0.002
9/13/12 17:30	6847.5	6.7	155.5	86.0	51.6	83.5	818				7.029	3.43	0.011	0.005	0.009	0.003
9/13/12 18:00	6848.1	7.3	153.5	82.0	49.4	85.8	824				6.727	3.60	0.011	0.005	0.009	0.003
9/13/12 18:30	6848.6	7.8	145.5	78.5	49.1	82.0	810	<b>Infl-1 SAMPLES COLLECTED</b>			6.689	3.74	0.011	0.005	0.009	0.003
9/13/12 19:00	6849.1	8.3	NM	NM	NM	NM	NM	420	0.87	< 0.55	NM	NM	NM	NM	NM	NM
								<b>Total Pounds Extracted</b>				<b>3.74</b>		<b>0.01</b>		<b>0.003</b>
								<b>Averaged Daily Extraction Rate</b>			<b>11.5</b>		<b>0.02</b>		<b>0.009</b>	



TABLE 8A

DPE PILOT TEST-SOIL VAPOR EXTRACTION - USING INFL1 DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well # Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Infl-1 Vacuum in WC	Infl-1 Flow (acfm)	Infl-1 Flow (scfm)	Infl-1 Temp ° F	Infl-1 Vapor (ppmv)	Analytical Results			TPHg		Benzene		MTBE	
								TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
								(ppmv)			(lbs/day)	(lbs)	(lbs/day)	(lbs)	(lbs/day)	(lbs)
<b>EW-1</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
<b>Step #1</b>								<b>&lt; 24 &lt; 0.63 &lt; 0.55</b>								
9/14/12 9:00	6849.5	0.0	101.3	87.5	65.3	71.6	122				0.584	0.00	0.012	0.000	0.012	0.000
9/14/12 9:30	6850.1	0.6	96.7	92.5	69.7	74.3	118				0.624	0.02	0.013	0.000	0.013	0.000
9/14/12 10:00	6850.5	1.0	98.5	110	81.5	80.2	128				0.730	0.03	0.015	0.001	0.015	0.001
<b>Step #2</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/14/12 10:15	6850.8	1.3	149.5	139	86.1	79.2	160	45	< 0.63	< 0.55	1.445	0.05	0.016	0.001	0.016	0.001
9/14/12 10:45	6851.3	1.8	147.0	142	88.9	78.8	167				1.492	0.08	0.016	0.001	0.016	0.001
9/14/12 11:15	6851.8	2.3	147.7	162	100.7	81.3	165				1.690	0.11	0.018	0.001	0.018	0.001
<b>Step #3</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/14/12 11:30	6852.1	2.6	168.5	180	102.2	85.1	167	63	< 0.63	< 0.55	2.401	0.14	0.019	0.002	0.018	0.002
9/14/12 12:00	6852.5	3.0	166.3	179	102.9	83.1	185				2.418	0.18	0.019	0.002	0.019	0.002
9/14/12 12:30	6853.0	3.5	162.0	207	120.0	88.2	180				2.820	0.24	0.022	0.002	0.022	0.002
<b>Step #4</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/14/12 12:45	6853.3	3.8	48.0	96.5	81.8	89.7	182	81	< 0.63	< 0.55	2.470	0.27	0.015	0.003	0.015	0.003
9/14/12 13:15	6853.9	4.4	50.5	110	91.6	95.3	205				2.768	0.34	0.017	0.003	0.017	0.003
<b>CONSTANT</b>								<b>Infl-1 SAMPLES COLLECTED</b>								
9/14/12 13:45	6854.3	4.8	158.7	209	122.6	89.1	197	120	< 0.63	< 0.55	5.488	0.43	0.022	0.003	0.022	0.003
9/14/12 14:30	6855.2	5.7	156.4	217	128.9	87.2	200				6.252	0.67	0.024	0.004	0.023	0.004
9/14/12 15:00	6855.6	6.1	154.5	215	128.8	86.9	196	<b>Infl-1 SAMPLES COLLECTED</b>			6.484	0.78	0.024	0.005	0.023	0.005
9/14/12 15:30	6856.1	6.6	154.3	218	129.8	90.4	190	140	< 0.63	< 0.55	6.780	0.92	0.024	0.005	0.023	0.005
9/14/12 16:00	6856.7	7.2	151.4	217	131.2	88.2	198	<b>Infl-1 SAMPLES COLLECTED</b>			6.609	1.08	0.024	0.006	0.024	0.006
9/14/12 16:30	6857.1	7.6	151.8	209	125.9	89.4	205	130	< 0.63	< 0.55	6.107	1.18	0.023	0.006	0.023	0.006
9/14/12 16:45	6857.4	7.9	153.5	218	130.0	91.4	NM				6.305	1.26	0.024	0.007	0.023	0.006
<b>Total Pounds Extracted</b>											<b>1.26</b>		<b>0.007</b>		<b>0.006</b>	
<b>Averaged Daily Extraction Rate</b>											<b>3.83</b>		<b>0.020</b>		<b>0.020</b>	

DPE PILOT TEST-SOIL VAPOR EXTRACTION - USING INFL1 DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well # Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Infl-1 Vacuum in WC	Infl-1 Flow (acfm)	Infl-1 Flow (scfm)	Infl-1 Temp ° F	Infl-1 Vapor (ppmv)	Analytical Results			TPHg		Benzene		MTBE	
								TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
								(ppmv)			(lbs/day)	(lbs)	(lbs/day)	(lbs)	(lbs/day)	(lbs)

**Abbreviations and Notes:**

lbs = Pounds  
 ppmv = Parts per million by volume  
 TPHg = Total petroleum hydrocarbons as gasoline  
 NM=no measurement  
*Italicized* measurements are estimates based on comparable readings  
 fpm = feet per minute  
 ACFM = Actual cubic feet per minute  
 SCFM = Standard cubic feet per minute  
 in WC = inches water column  
 Atmospheric pressure = 406.86 in WC  
 Absolute = Atmospheric pressure - gauge vacuum (in WC)  
 System flow rates and vacuum readings taken from two inch system header pipes  
 Inf-1= influent readings at the wellhead

TPHg analyzed by EPA Method 8260, BTEX analyzed by EPA Method 8260B from 1 liter Tedlar bag samples  
 MTBE = methyl tertiary butyl ether  
 SCFM = ACFM(406.86+gauge pressure)/406  
 $ACFM = fpm * (PI) * ((radius\ of\ pipe\ in\ feet\ (2/12))^2)$   
 $Removal/Emission\ Rate = C\ (ppmv) \times Q\ (cfm) \times (1lb-mole/386ft^3) \times MW\ (lb/lb-mole) \times 60\ min/hr \times 24\ hr/day \times 10^{-6}$   
 where; C = concentration, Q = flow, MW= molecular weight (100 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, and 88 lb/lb-mole for MTBE )  
 Cumulative removal = removal rate multiplied by the hour-interval of operation plus the previous total  
**Note 1: Removal rates during step testing uses only the concentration detected during that test.**  
**Note 2: Removal rates during constant rate testing uses the average of the lab result for the sample before, during, and after for the respective time period. Initial concentrations are the average of the first sample and the following, and final concentrations are the average of the previous and final concentration**  
 deg F = degrees Fahrenheit

TABLE 8B

DPE PILOT TEST-SOIL VAPOR EXTRACTION - USING INFL2 DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well # Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Infl-2 Pressure in WC	Infl-1 Vacuum in WC	Infl-2 Flow (fpm)	Infl-2 Flow (acfm)	Infl-2 Flow (scfm)	Infl-2 Temp ° F	Infl-2 Vapor (ppmv)	Analytical Results			TPHg		Benzene		MTBE	
										TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
										(ppmv)			(lbs/day)	(lbs)	(lbs/day)	(lbs)	(lbs/day)	(lbs)
<b>EW-2</b>																		
<b>Step #1</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/13/12 10:45	6840.8	0	0.15	59.5	900	78.5	69.0	141	545	1,300 1.4 < 0.55			33.476	0.00	0.028	0.000	0.012	0.000
9/13/12 11:00	6841.1	0.3	0.15	103.3	900	78.5	69.0	141	1,906				33.476	0.42	0.028	0.000	0.012	0.000
9/13/12 11:30	6841.6	0.8	0.20	99.1	1,800	157.1	136.0	150	1,150				65.971	1.79	0.055	0.002	0.025	0.001
9/13/12 12:00	6842.0	1.2	0.15	100.4	1,600	139.6	120.5	152	1,045				58.442	2.77	0.049	0.002	0.022	0.001
<b>Step #2</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/13/12 12:15	6842.3	1.5	0.15	159.0	1,600	139.6	119.9	155	1,035	740 1.7 < 0.55			33.105	3.18	0.059	0.003	0.022	0.001
9/13/12 12:45	6843.0	2.2	0.125	148.3	1,200	104.7	89.4	159	984				24.667	3.90	0.044	0.004	0.016	0.002
9/13/12 13:15	6843.3	2.5	0.125	164.1	1,200	104.7	89.1	161	915				24.587	4.21	0.044	0.005	0.016	0.002
<b>Step #3</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/13/12 13:30	6843.6	2.8	0.17	249.5	1,250	109.1	92.3	164	928	660 1.4 < 0.55			22.736	4.49	0.038	0.005	0.017	0.002
9/13/12 14:00	6844.1	3.3	0.16	247.8	1,250	109.1	92.5	163	1,048				22.772	4.97	0.038	0.006	0.017	0.003
9/13/12 14:30	6844.5	3.7	0.17	246.9	1,300	113.4	95.4	168	967				22.960	5.35	0.039	0.007	0.017	0.003
<b>Step #4</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/13/12 15:00	6845.0	4.2	0.10	50.7	950	82.9	70.3	163	858	630 1.2 < 0.55			16.517	5.69	0.025	0.007	0.013	0.003
<b>Step #5</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/13/12 15:15	6845.2	4.4	0.11	222.4	1,150	100.4	84.4	168	846	610 1.3 < 0.55			19.206	5.85	0.032	0.008	0.015	0.003
<b>Constant Rate</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/13/12 15:30	6845.6	4.8	0.125	152.5	1,150	100.4	84.1	170	748	120 < 0.63 < 0.55			3.766	5.92	0.015	0.008	0.015	0.003
9/13/12 16:00	6846.0	5.2	0.12	153.5	1,150	100.4	84.0	171	798				7.051	6.03	0.016	0.008	0.015	0.004
9/13/12 16:30	6846.6	5.8	0.12	152.5	1,175	102.5	86.0	170	789	<b>Infl-2 SAMPLES COLLECTED</b>			7.215	6.21	0.017	0.009	0.016	0.004
9/13/12 17:00	6847.1	6.3	0.13	151.4	1,200	104.7	87.6	171.5	774	330 0.69 < 0.55			10.782	6.44	0.018	0.009	0.016	0.004
9/13/12 17:30	6847.5	6.7	0.12	155.5	1,150	100.4	85.1	163	820				8.887	6.59	0.016	0.009	0.015	0.005
9/13/12 18:00	6848.1	7.3	0.12	153.5	1,100	96.0	81.5	162	648				8.514	6.80	0.016	0.010	0.015	0.005
9/13/12 18:30	6848.6	7.8	0.115	145.5	1,100	96.0	81.4	163	704	<b>Infl-2 SAMPLES COLLECTED</b>			8.500	6.98	0.016	0.010	0.015	0.005
9/13/12 19:00	6849.1	8.3	NM	NM	NM	NM	NM	NM	NM	230 < 0.63 < 0.55			NM	NM	NM	NM	NM	NM
										<b>Total Pounds Extracted</b>				6.98		0.010		0.005
										<b>Averaged Daily Extraction Rate</b>			21.5		0.030		0.016	

TABLE 8B

DPE PILOT TEST-SOIL VAPOR EXTRACTION - USING INFL2 DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well # Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Infl-2 Pressure inWC	Infl-1 Vacuum in WC	Infl-2 Flow (fpm)	Infl-2 Flow (acfm)	Infl-2 Flow (scfm)	Infl-2 Temp ° F	Infl-2 Vapor (ppmv)	Analytical Results			TPHg		Benzene		MTBE	
										TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
										(ppmv)			(lbs/day)	(lbs)	(lbs/day)	(lbs)	(lbs/day)	(lbs)
<b>EW-1</b>																		
<b>Step #1</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/14/12 9:00	6849.5	0.0	0.15	101.3	1,200	104.7	91.7	143	122	33	< 0.63	< 0.55	1.129	0.00	0.017	0.000	0.017	0.000
9/14/12 9:30	6850.1	0.6	0.23	96.7	1,900	165.8	143.6	150	119				1.768	0.04	0.026	0.001	0.026	0.001
9/14/12 10:00	6850.5	1.0	0.20	98.5	1,600	139.6	120.7	151	142				1.486	0.07	0.022	0.001	0.022	0.001
<b>Step #2</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/14/12 10:15	6850.8	1.3	0.24	149.5	1,800	157.1	135.6	152	170	67	< 0.63	< 0.55	3.389	0.11	0.025	0.001	0.024	0.001
9/14/12 10:45	6851.3	1.8	0.242	147.0	1,850	161.4	139.4	152	204				3.483	0.18	0.026	0.002	0.025	0.002
9/14/12 11:15	6851.8	2.3	0.245	147.7	1,900	165.8	142.2	156	214				3.554	0.26	0.026	0.002	0.026	0.002
<b>Step #3</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/14/12 11:30	6852.1	2.6	0.25	168.5	2,000	174.5	149.2	158	219	61	< 0.63	< 0.55	3.395	0.30	0.027	0.003	0.027	0.003
9/14/12 12:00	6852.5	3.0	0.248	166.3	1,990	173.7	148.2	159	218				3.373	0.36	0.027	0.003	0.027	0.003
9/14/12 12:30	6853.0	3.5	0.252	162.0	2,100	183.3	156.5	158.5	226				3.562	0.43	0.029	0.004	0.028	0.004
<b>Step #4</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/14/12 12:45	6853.3	3.8	0.125	48.0	1,000	87.3	75.7	149	225	140	< 0.63	< 0.55	3.953	0.48	0.014	0.004	0.014	0.004
9/14/12 13:15	6853.9	4.4	0.115	50.5	990	86.4	73.8	158	144				3.856	0.58	0.014	0.004	0.013	0.004
<b>CONSTANT</b>										<b>Infl-2 SAMPLES COLLECTED</b>								
9/14/12 13:45	6854.3	4.8	0.26	158.7	2,100	183.3	155.7	162	232	140	< 0.63	< 0.55	8.130	0.71	0.029	0.005	0.028	0.005
9/14/12 14:30	6855.2	5.7	0.265	156.4	2,150	187.6	159.1	163	206				19.292	1.44	0.038	0.006	0.029	0.006
9/14/12 15:00	6855.6	6.1	0.27	154.5	2,175	189.8	161.0	163	235	<b>Infl-2 SAMPLES COLLECTED</b>			19.516	1.76	0.038	0.007	0.029	0.006
9/14/12 15:30	6856.1	6.6	0.275	154.3	2,200	192.0	161.5	168	247	510	1.0	< 0.55	30.731	2.40	0.047	0.008	0.029	0.007
9/14/12 16:00	6856.7	7.2	0.28	151.4	2,225	194.2	164.4	164	219	<b>Infl-2 SAMPLES COLLECTED</b>			20.547	2.91	0.039	0.009	0.030	0.008
9/14/12 16:30	6857.1	7.6	0.28	151.8	2,210	192.9	163.4	163.5	260	160	< 0.63	< 0.55	9.755	3.08	0.030	0.009	0.030	0.008
9/14/12 16:45	6857.4	7.9	0.27	153.5	2,200	192.0	162.6	164	NM				9.703	3.20	0.030	0.010	0.029	0.008
										<b>Total Pounds Extracted</b>			3.20		0.010			0.008
										<b>Averaged Daily Extraction Rate</b>		9.72		0.029		0.026		

DPE PILOT TEST-SOIL VAPOR EXTRACTION - USING INFL2 DATA  
 SHELL-BRANDED SERVICE STATION  
 4212 FIRST STREET, PLEASANTON, CALIFORNIA

Well # Date/Time	Hour Meter (hours)	Cumulative Operation (hours)	Infl-2 Pressure in WC	Infl-1 Vacuum in WC	Infl-2 Flow (fpm)	Infl-2 Flow (acfm)	Infl-2 Flow (scfm)	Infl-2 Temp °F	Infl-2 Vapor (ppmv)	Analytical Results			TPHg		Benzene		MTBE	
										TPHg	Benzene	MTBE	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed	Removal Rate	Cumulative Removed
										(ppmv)			(lbs/day)	(lbs)	(lbs/day)	(lbs)	(lbs/day)	(lbs)

**Abbreviations and Notes:**

lbs = Pounds  
 ppmv = Parts per million by volume  
 TPHg = Total petroleum hydrocarbons as gasoline  
 NM=no measurement  
*Italicized* measurements are estimates based on comparable readings  
 fpm = feet per minute  
 ACFM = Actual cubic feet per minute  
 SCFM = Standard cubic feet per minute  
 in WC = inches water column  
 Atmospheric pressure = 406.86 in WC  
 Absolute = Atmospheric pressure - gauge vacuum (in WC)  
 System flow rates and vacuum readings taken from two inch system header pipes  
 Inf-1= influent readings at the wellhead

deg F = degrees Fahrenheit  
 TPHg analyzed by EPA Method 8260, BTEX analyzed by EPA Method 8260B from 1 liter Tedlar bag samples  
 MTBE = methyl tertiary butyl ether  
 $SCFM = ACFM(406.86 + \text{gauge pressure}) / 406$   
 $ACFM = fpm * (\pi) * (\text{radius of pipe in feet } (2/12))^2$   
 $\text{Removal/Emission Rate} = C (\text{ppmv}) \times Q (\text{cfm}) \times (11\text{lb-mole}/386\text{ft}^3) \times MW (\text{lb}/\text{lb-mole}) \times 60 \text{ min}/\text{hr} \times 24 \text{ hr}/\text{day} \times 10^{-6}$   
 where; C = concentration, Q = flow, MW= molecular weight (100 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, and 88 lb/lb-mole for MTBE )  
 Cumulative removal = removal rate multiplied by the hour-interval of operation plus the previous total  
**Note 1: Removal rates during step testing uses only the concentration detected during that test.**  
**Note 2: Removal rates during constant rate testing uses the average of the lab result for the sample before, during, and after for the respective time period. Initial concentrations are the average of the first sample and the following, and final concentrations are the average of the previous and final concentration**

DPE PILOT TEST  
RADIUS OF INFLUENCE DATA  
SHELL-BRANDED SERVICE STATION  
4212 FIRST STREET, PLEASANTON, CALIFORNIA

<i>Extraction</i>	<i>Monitoring</i>	<i>Rw</i>	<i>r</i>	<i>Pw</i>	<i>Pw(abs)</i>	<i>P(obs)</i>	<i>P(r)</i>	<i>Ri</i> <sup>1</sup>	<i>P(r)/P(w)</i>
<i>Well</i>	<i>Wells</i>	<i>(feet)</i>	<i>(feet)</i>	<i>inches water</i>				<i>(feet)</i>	<i>(%)</i>
EW-1	MW-4	0.33	22	134.26	272.5	0.00	406.8	22.0	0.00%
	SVE-3	0.33	15.5	134.26	272.5	2.06	404.7	16.7	1.53%
	SVE-4	0.33	36	134.26	272.5	0.42	406.4	36.6	0.32%
	SVE-5	0.33	35.5	134.26	272.5	0.51	406.3	36.3	0.38%
	P-1	0.17	11.5	134.26	272.5	3.74	403.1	13.3	2.79%
	P-2	0.17	9.5	134.26	272.5	2.25	404.5	10.3	1.68%
	EW-2	0.33	30	134.26	272.5	0.61	406.2	30.7	0.46%
EW-2	MW-4	0.33	9.7	144.86	261.9	0.00	406.8	9.7	0.00%
	SVE-3	0.33	24	144.86	261.9	1.38	405.4	25.2	0.95%
	SVE-4	0.33	15.3	144.86	261.9	3.52	403.3	17.2	2.43%
	SVE-5	0.33	8	144.86	261.9	6.01	400.8	9.5	4.15%
	P-1	0.17	38	144.86	261.9	0.00	406.8	38.0	0.00%
	P-2	0.17	19.1	144.86	261.9	0.94	405.9	19.8	0.65%
	EW-1	0.33	30	144.86	261.9	0.04	406.8	30.0	0.03%

<sup>1</sup> Based on the steady-state radial pressure distribution equation from "A Practical Approach to the Design, Operation, and Monitoring of In Situ Soil Venting Systems", P.C. Johnson, C.C. Stanley, M.W. Kemblowski, D.L. Byers, and J.D. Cothart, Groundwater Monitoring and Review, Spring 1990:

$$Ri = [Rw] / [r/Rw]^{1/2} \cdot [1 - (Patm/Pw)^2]^{1/2} / [((P(r)/Pw)^2 - 1)]^{1/2}$$

<sup>2</sup> Ratio of monitoring well gauge pressure to extraction well gauge pressure.

Rw = Radius of Extraction Well (feet)

r = Distance of observation well from extraction well (feet)

Pw = Pressure applied at extraction well (inches of water column)

P(obs) = Pressure at observation well (inches of water)

P(r) = Gage pressure at observation well (inches of water column)

Ri = Radius of Influence (feet)

"H<sub>2</sub>O = Inches of water

**bold** = induced vacuum > 1% of applied vacuum

APPENDIX A

SITE HISTORY

## SITE HISTORY

**1985 Subsurface Investigation:** In September 1985, Emcon Associates (Emcon) drilled one soil boring (S-A) adjacent to the waste oil underground storage tank (UST), and drilled three soil borings (S-B through S-D) and installed one groundwater monitoring well (S-1) adjacent to the gasoline USTs. Soil samples contained up to 1,300 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), 9.6 mg/kg toluene, and 260 mg/kg xylenes and ethylbenzene. Benzene was not detected in the soil samples. The monitoring well was dry. Emcon's November 12, 1985 letter presents investigation details.

**1986 Subsurface Investigation:** In March 1986, one soil boring (S-E) was drilled adjacent to product lines. No TPHg, benzene, toluene, ethylbenzene, or total xylenes (BTEX) were detected in soil samples.

**1986 UST Removal:** In May 1986, Blaine Tech Services (Blaine) collected soil samples following removal of four gasoline USTs and one waste oil UST. Soil samples from the gasoline UST excavation contained up to 240 mg/kg TPHg. Hydrocarbons were not detected in a soil sample collected from the waste oil tank excavation. Three 10,000-gallon, double-walled, fiberglass tanks were installed at a location closer to the dispenser islands.

**1988 Gasoline Spill:** In August 1988, approximately 40 gallons of gasoline were spilled in the area of the pump islands. Impacted soil was removed to a depth of 1 to 2 feet below grade (fbg).

**1990 Subsurface Investigations:** In March 1990, Hart Crowser, Inc. (Hart) drilled three soil borings (SB-1 through SB-3) and destroyed one groundwater monitoring well (S-1). Following the well destruction, Hart continued drilling a boring (WA-1) below the depth of the monitoring well. Soil samples contained up to 380 mg/kg TPHg, 2.2 mg/kg benzene, 2.7 mg/kg toluene, 5.3 mg/kg ethylbenzene, and 32 mg/kg xylenes. Hart's April 23, 1990 *Report of Supplemental Site Assessment* provides details of this investigation.

In July 1990, Hart drilled two additional soil borings (SB-4 and SB-5) down gradient from the former UST complex. Soil samples contained up to 820 mg/kg TPHg, 65 mg/kg benzene, 3.7 mg/kg toluene, 6.5 mg/kg ethylbenzene, and 65 mg/kg xylenes (SB-5 at 35 fbg). Hart's December 11, 1990 *Supplemental Site Assessment* presents the soil boring investigation details.



**1995 Dispenser and Piping Replacement:** In September 1995, Paradiso Mechanical of San Leandro, California removed the product lines and replaced the dispensers and piping. Weiss Associates (Weiss) collected soil samples from beneath the gasoline product piping (PT-1 and PT-2) and dispensers (DP-1 through DP-4). Soil samples contained up to 120 mg/kg TPHg, 0.038 mg/kg ethylbenzene, and 0.19 mg/kg xylenes. Benzene and toluene were not detected in the soil samples. Approximately 40 cubic yards of soil were over-excavated at the direction of the Pleasanton Fire Department. Weiss' December 21, 1995 *Dispenser Replacement Sampling* report presents soil sampling locations and results.

**1998 Facility Upgrade:** In July 1998, Cambria Environmental Technology, Inc. (Cambria) inspected the waste oil tank remote-fill piping during its removal by Gettler-Ryan of Dublin, California. No hydrocarbon impact was observed during the site visit, and, therefore, no sampling was required. A pea gravel sample contained 27 mg/kg total petroleum hydrocarbons as diesel (TPHd). Cambria's September 2, 1998 *1998 Upgrade Site Inspection Report* provides inspection details.

**1999 Subsurface Investigation:** In April 1999, Cambria drilled two soil borings (SB-6 and SB-7) and converted SB-6 to monitoring well MW-1. Soil samples contained up to 83 mg/kg TPHg, 0.10 mg/kg benzene, 0.37 mg/kg toluene, 0.26 mg/kg ethylbenzene, and 0.26 mg/kg xylenes. Methyl tertiary-butyl ether (MTBE) was not detected in soil samples. Grab groundwater samples contained up to 10,000 micrograms per liter ( $\mu\text{g}/\text{l}$ ) TPHg, 4,500  $\mu\text{g}/\text{l}$  benzene, 3.4  $\mu\text{g}/\text{l}$  ethylbenzene, and 2.9  $\mu\text{g}/\text{l}$  xylenes. Toluene and MTBE were not detected in the grab groundwater samples. Cambria's August 12, 1999 *Subsurface Investigation Report* presents investigation details.

**2000 Subsurface Investigation:** In January 2000, Cambria installed two wells (MW-2 and MW-3) to determine whether groundwater had been impacted by petroleum hydrocarbons. No petroleum hydrocarbons or MTBE were detected in soil samples. Cambria's June 23, 2000 *Subsurface Investigation Report* presents well installation details.

**2004 Well Survey:** In May 2004, Toxichem Management Systems, Inc. (Toxichem) conducted a well survey, which identified a municipal well (3S/1E-21B1) and a well of unknown use (3S/1E-21B) approximately 900 feet northeast of the site and another municipal well (3S/1E-16P1) approximately 1,200 feet north of the site. The locations of the wells could not be field verified.

**2005 UST Upgrades:** In January 2005, Town and Country Contractors, Inc. (T & C) upgraded the gasoline USTs.

**2005 Tank Backfill Well Destructions:** In January 2005, T & C destroyed four tank backfill wells (TB-1 through TB-4).

**2005 Waste Oil UST Investigation:** In January 2005, an unknown liquid was likely poured into a port on the waste oil UST which led directly into the pea gravel surrounding the UST. Based on this observation, Shell submitted a UST Unauthorized Release (Leak)/Site Contamination Report on January 19, 2005. Able Maintenance (Able) and Service Station Systems sealed the UST port with epoxy and excavated pea gravel around the UST. Toxichem collected pea gravel samples which contained 1.4 mg/kg TPHg, 1,400 mg/kg TPHd, and 10,000 mg/kg total petroleum hydrocarbons as oil and grease. In June 2005, Delta Consultants (Delta) drilled one soil boring (WO-1) adjacent to the waste oil UST to determine if the liquid poured into the pea gravel had impacted soils. Petroleum hydrocarbons were not detected in the soil samples. Delta's July 11, 2005 *Soil and Water Investigation Report* provides investigation details.

**2005 Receptor Survey:** In September 2005, Delta conducted a well survey which located an old water tower in the area of the wells identified in Toxichem's 2004 well survey and identified a water supply well (3S/1E-21C1) and an irrigation well (3S/1E-21C4) approximately 1,000 feet northwest of the site and another irrigation well in Kottinger Park, approximately 800 feet east of the site. Delta identified the nearest surface water as Arroyo del Valle Creek located approximately 1,130 feet northwest of the site.

**2006 Waste Oil UST Removal:** In July 2006, Wayne Perry Inc. removed a 550-gallon waste oil UST. Cambria collected a soil sample from the bottom of the UST excavation (WO-2) which contained 26 mg/kg oil and grease, 5.5 mg/kg TPHd, 0.021 mg/kg MTBE, 40.7 mg/kg chromium, 6.00 mg/kg lead, 46.9 mg/kg nickel, and 52.5 mg/kg zinc. Based on these concentrations, Shell submitted a UST Unauthorized Release (Leak)/Site Contamination Report on July 28, 2006. Cambria's September 21, 2006 *UST Removal Report* details the UST removal and sampling.

**2006 Subsurface Investigation:** In August and September 2006, Delta installed two monitoring wells (MW-1B and MW-4) and drilled two cone penetrometer test (CPT) borings (CPT-2 and CPT-3). Well MW-4 was installed in first-encountered groundwater, and well MW-1B was installed in a deeper water-bearing zone. Soil samples from well boring MW-4 contained up to 380 mg/kg TPHg, 1.2 mg/kg ethylbenzene, 1.6 mg/kg xylenes, and 0.59 mg/kg MTBE. TPHg, BTEX, MTBE, and tertiary-butyl alcohol (TBA) were not detected in soil samples from MW-1B, and benzene, toluene, and TBA were not detected in soil samples from MW-4. Grab groundwater samples from off-site CPT boring CPT-2 contained up to 0.99 µg/l

benzene, 47 µg/l MTBE, and 27 µg/l TBA. Grab groundwater samples from on-site CPT boring CPT-3 contained up to 700 µg/l TPHg, 0.78 µg/l ethylbenzene, 2.1 µg/l xylenes, 79 µg/l MTBE, and 2,000 µg/l TBA. Delta's October 31, 2006 *Soil and Groundwater Investigation Report* provides well installation and CPT investigation details.

**2007 Subsurface Investigation:** In March 2007, Delta drilled five soil borings (B-1 through B-5) in or near on-site source areas. Soil samples from the soil borings contained up to 710 mg/kg TPHg, 2.3 mg/kg ethylbenzene, 16 mg/kg xylenes, 0.78 mg/kg MTBE, and 0.80 mg/kg TBA. Delta's June 25, 2007 *Site Investigation and Interim Remediation Report* provides details of this investigation.

**2007 Mobile Groundwater Extraction (GWE):** From June through August 2007, Delta extracted approximately 4,226 gallons of groundwater from MW-4. Delta's June 25, 2007 *Site Investigation and Interim Remediation Report* and November 2, 2007 *Draft Corrective Action Plan (CAP)* provide remediation details.

**2009 Dual-Phase Extraction (DPE) Pilot Test:** In January 2009, Delta conducted a 5-day DPE pilot test on MW-4 and 4-hour DPE pilot tests on MW-1 and MW-2. Prior to conducting the DPE pilot tests, Delta conducted step drawdown tests in MW-1 and MW-4. Delta calculated hydraulic conductivities of  $3.59 \times 10^{-5}$  centimeters per second (cm/sec) in MW-1 at a pumping rate of 0.48 gallons per minute (gpm) and  $3.17 \times 10^{-5}$  cm/sec in MW-4 at a pumping rate of 0.40 gpm. Based on the results of the DPE pilot test, Delta calculated a theoretical radius of influence of 26 feet for soil vapor extraction and estimated that 286.3 pounds of hydrocarbons were removed from the vadose zone. An estimated 0.23 pounds of dissolved hydrocarbons were removed along with 2,748 gallons of groundwater. Delta concluded that while GWE results indicated it was likely not a viable remediation strategy, soil vapor extraction (SVE) could be a viable remediation alternative. Delta's February 12, 2009 *DPE Pilot Test Report* provides pilot test data.

**2009 Dispenser Repairs:** In January 2009, Able replaced the faulty pan beneath the south dispenser on the pump island closest to the station building. Delta collected a soil sample (Under Dispenser #1) from the dispenser excavation. No TPHg, TPHd, BTEX, fuel oxygenates, or lead scavengers were detected in the soil sample. Delta's March 6, 2009 *Dispenser Repair Report* presents details of the repair and soil sampling.

**2010 Subsurface Investigation:** In January 2010, Delta installed one observation well (OBS-1), one air sparging (AS) well (AS-1), and four SVE wells (SVE-1 through SVE-4). Delta's June 7, 2010 *2010 AS Pilot Test Report* provides well installation details.

**2010 AS Pilot Test:** In January 2010, Delta conducted an AS pilot test using well AS-10. Delta calculated an air sparging radius of influence of 31 feet; however, Conestoga-Rovers & Associates' (CRA) 's subsequent analysis of the pilot test data determined that the test was flawed and therefore inconclusive. Delta's June 7, 2010 *2010 AS Pilot Test Report* details pilot testing results.

**2011 Subsurface Investigation:** In June 2011, CRA attempted to install two off-site wells across Vineyard Avenue from the site. CRA abandoned the well installation attempts because there were no other locations in the sidewalk where the wells could be installed safely due to the interference of underground utilities. CRA's July 28, 2011 letter provides investigation details.

**Groundwater Monitoring Program:** Groundwater monitoring and sampling began in June 1999. The depth to first-encountered groundwater typically ranges between 31 to 34 fbg. Groundwater flow is generally northwesterly.

APPENDIX B  
DRILLING PERMIT



# ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9308  
E-MAIL [whong@zone7water.com](mailto:whong@zone7water.com)

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT  
4212 First Street.  
Pleasanton, CA

Coordinates Source \_\_\_\_\_ ft. Accuracy \_\_\_\_\_ ft.  
LAT: \_\_\_\_\_ ft. LONG: \_\_\_\_\_ ft.  
APN 99-95-25-3

CLIENT  
Name Shell Oil Products US  
Address 70745 South Wilmington Ave Phone 707-865-0251  
City Carson, CA Zip 90810

APPLICANT  
Name Coastline - Rivers & Associates  
Email stewie@crworld.com Fax 707-935-6649  
Address 19441 Riverside Drive, Suite 430 Phone 707-933-2369  
City Sonoma, CA Zip 95476

TYPE OF PROJECT:  
Well Construction  Geotechnical Investigation \_\_\_\_\_  
Well Destruction \_\_\_\_\_ Contamination Investigation \_\_\_\_\_  
Cathodic Protection \_\_\_\_\_ Other vapor probe

PROPOSED WELL USE:  
Domestic \_\_\_\_\_ Irrigation \_\_\_\_\_  
Municipal \_\_\_\_\_ Remediation \_\_\_\_\_  
Industrial \_\_\_\_\_ Groundwater Monitoring   
Dewatering \_\_\_\_\_ Other \_\_\_\_\_

DRILLING METHOD:  
Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Hollow Stem Auger   
Cable Tool \_\_\_\_\_ Direct Push \_\_\_\_\_ Other Air Knife

DRILLING COMPANY Grigg Drilling, 950 Howe Road  
Meritts, CA 94558  
DRILLER'S LICENSE NO. 785165

WELL SPECIFICATIONS:  
Drill Hole Diameter 8 + 1/8 in. Maximum \_\_\_\_\_  
Casing Diameter 3" + 1/4" in. Depth 46 ft.  
Surface Seal Depth 8 + 1/8 ft. Number 6 "

Vapor Probes  
Number of Borings 8 Maximum \_\_\_\_\_  
Hole Diameter 3.5 in. Depth 5.5 ft.  
Tubing 0.25" Teflon tube

ESTIMATED STARTING DATE August 2012  
ESTIMATED COMPLETION DATE August 2012

PERMIT NUMBER 2012069  
WELL NUMBER 3S/1E-21C62 to 21C67 (P-1, P-2, EW-1  
APN 094-0095-025-03 EW-2, AS-1 & SVE-5)

### PERMIT CONDITIONS (Circled Permit Requirements Apply)

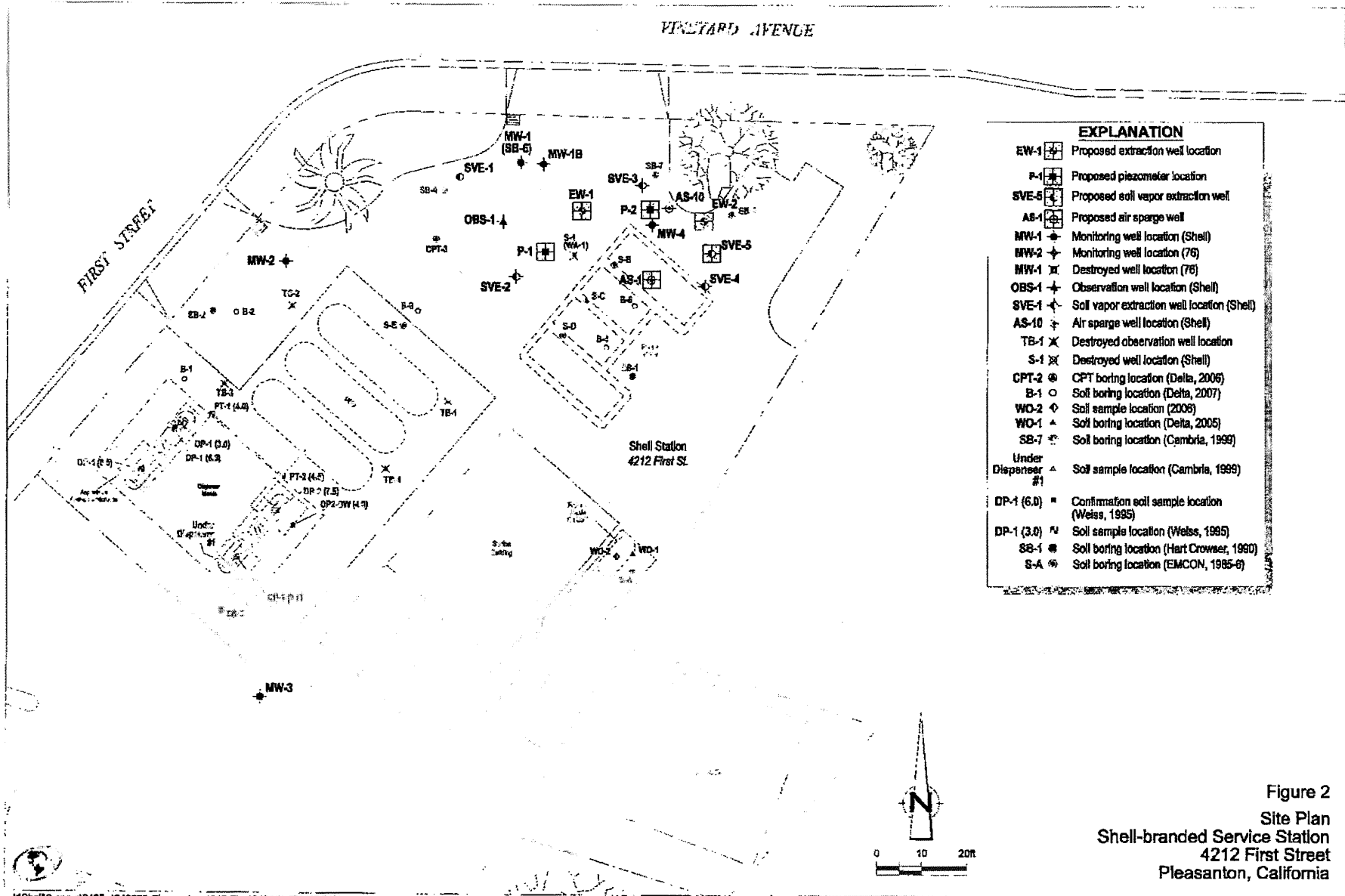
- A. GENERAL**
  1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
  2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
  3. Permit is void if project not begun within 90 days of approval date.
  4. Notify Zone 7 at least 24 hours before the start of work.
- B. WATER SUPPLY WELLS**
  1. Minimum surface seal diameter is four inches greater than the well casing diameter.
  2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
  3. Grout placed by tremie.
  4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
  5. A sample port is required on the discharge pipe near the wellhead.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
  1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
  2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
  3. Grout placed by tremie.
- D. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION.** See attached.
- G. SPECIAL CONDITIONS.** Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

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

APPLICANT'S SIGNATURE Scott Lewis Date 7-16-12

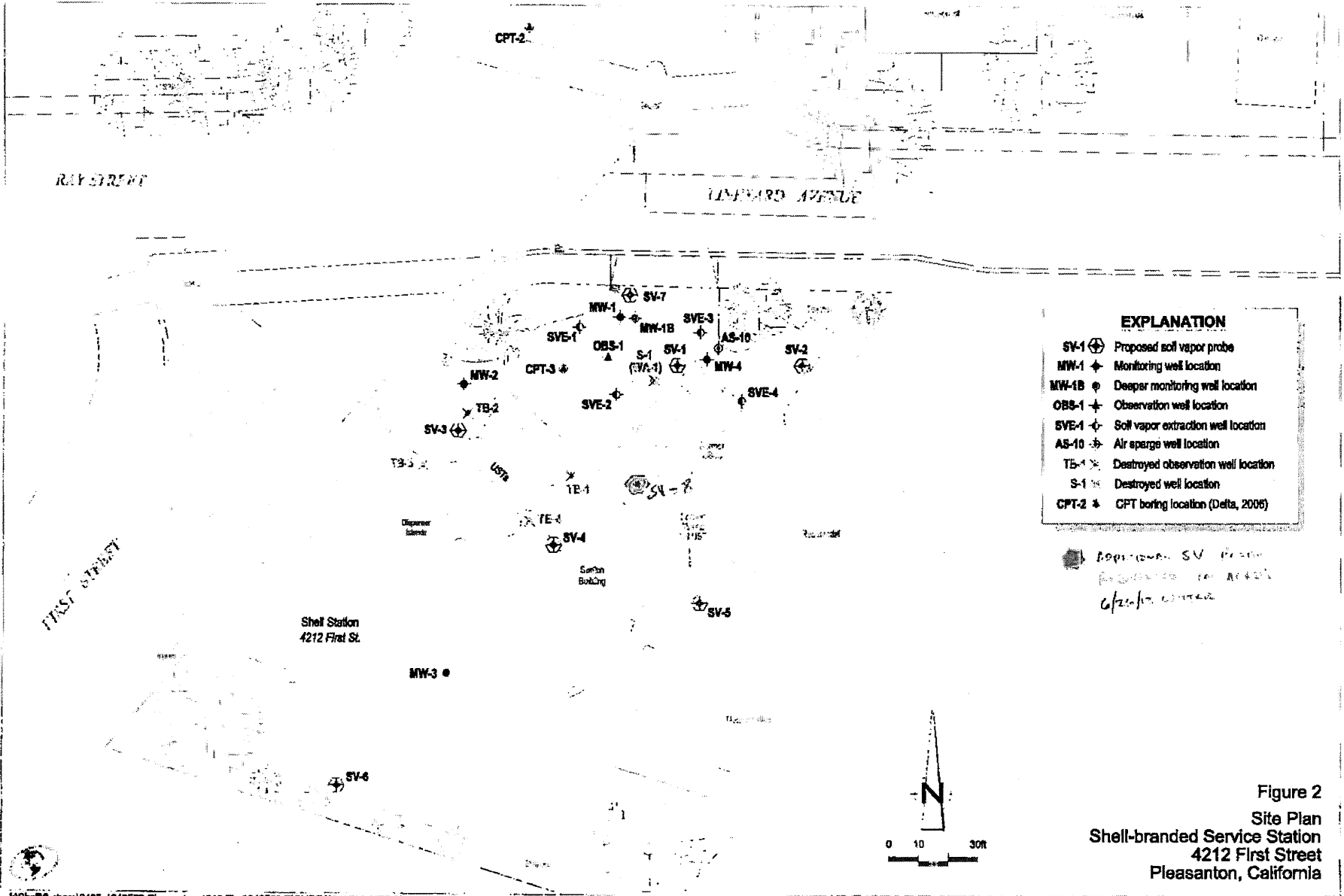
Approved Wyman Hong Date 7/17/12  
Wyman Hong

ATTACH SITE PLAN OR SKETCH



K:\Shell\6-c\are\2405-240523-Pleasanton 4212 First\240523-FIGURE6\240523 SITE PLAN.DWG (04/12/2012)

5/9/12 AS, SVE PT W/P



5/8/07 SVI 011



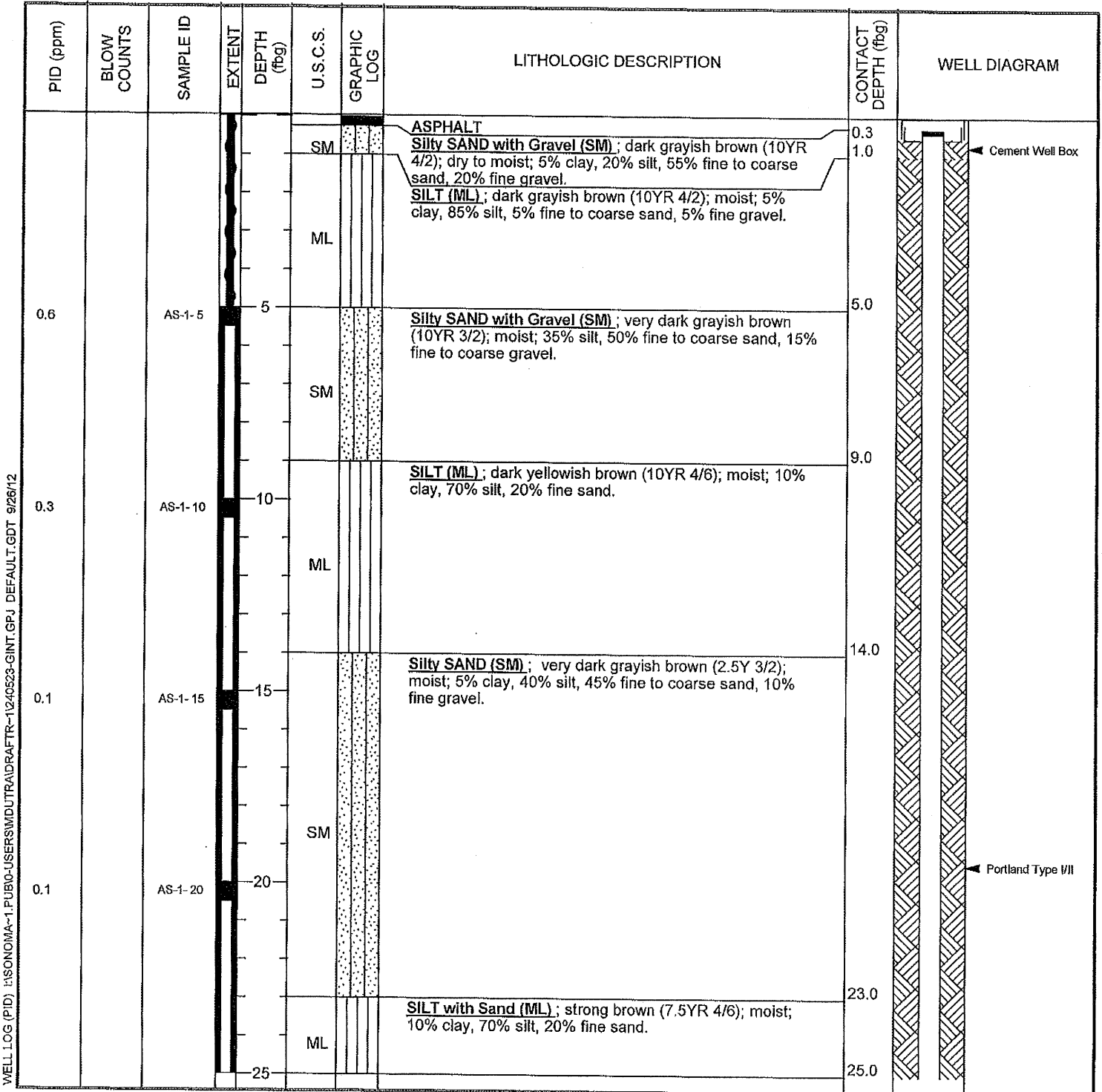
APPENDIX C  
BORING LOGS



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	AS-1
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	14-Aug-12
PROJECT NUMBER	240523	WELL DEVELOPMENT DATE (YIELD)	31-Aug-12 (19.8 Gallons)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	373.77 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	373.39 ft above msl
BORING DIAMETER	8"	SCREENED INTERVALS	44 to 46 fbg
LOGGED BY	C. Arganbright	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG 5612	DEPTH TO WATER (Static)	34.55 fbg (31-Aug-12)
REMARKS	Airknifed to 5 fbg.		



WELL LOG (PID): I:\SONOMA-1.PUB\10-USER\MD\UTRAD\RAFFTR-1\240523-GINT.GPJ DEFAULT.GDT 9/26/12

Continued Next Page



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	AS-1
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	14-Aug-12

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.1		AS-1-25				<b>Silty SAND with Gravel (SM)</b> ; strong brown (7.5YR 4/6); moist; 30% silt, 55% fine to coarse sand, 15% fine to coarse gravel.		
0.1		AS-1-30	30					
0.2		AS-1-33				@33' - dark greenish gray (10GY 4/1); 15% silt, 70% fine to coarse sand, 15% fine gravel.		
0.1		AS-1-35	35			@35' - <b>Silty SAND (SM)</b> ; strong brown (7.5YR 4/6); 30% silt, 60% fine to coarse sand, 10% fine to coarse gravel.		
				SM				
0.2		AS-1-40	40			@40' - wet; 20% silt, 70% fine to coarse sand, 10% fine gravel.		
10.3		AS-1-45	45					
							48.0	Bentonite Seal Monterey Sand #2/12 2"-diam., 0.010" Slotted Schedule 40 PVC 2' Sump Bottom of Boring @ 48 fbg

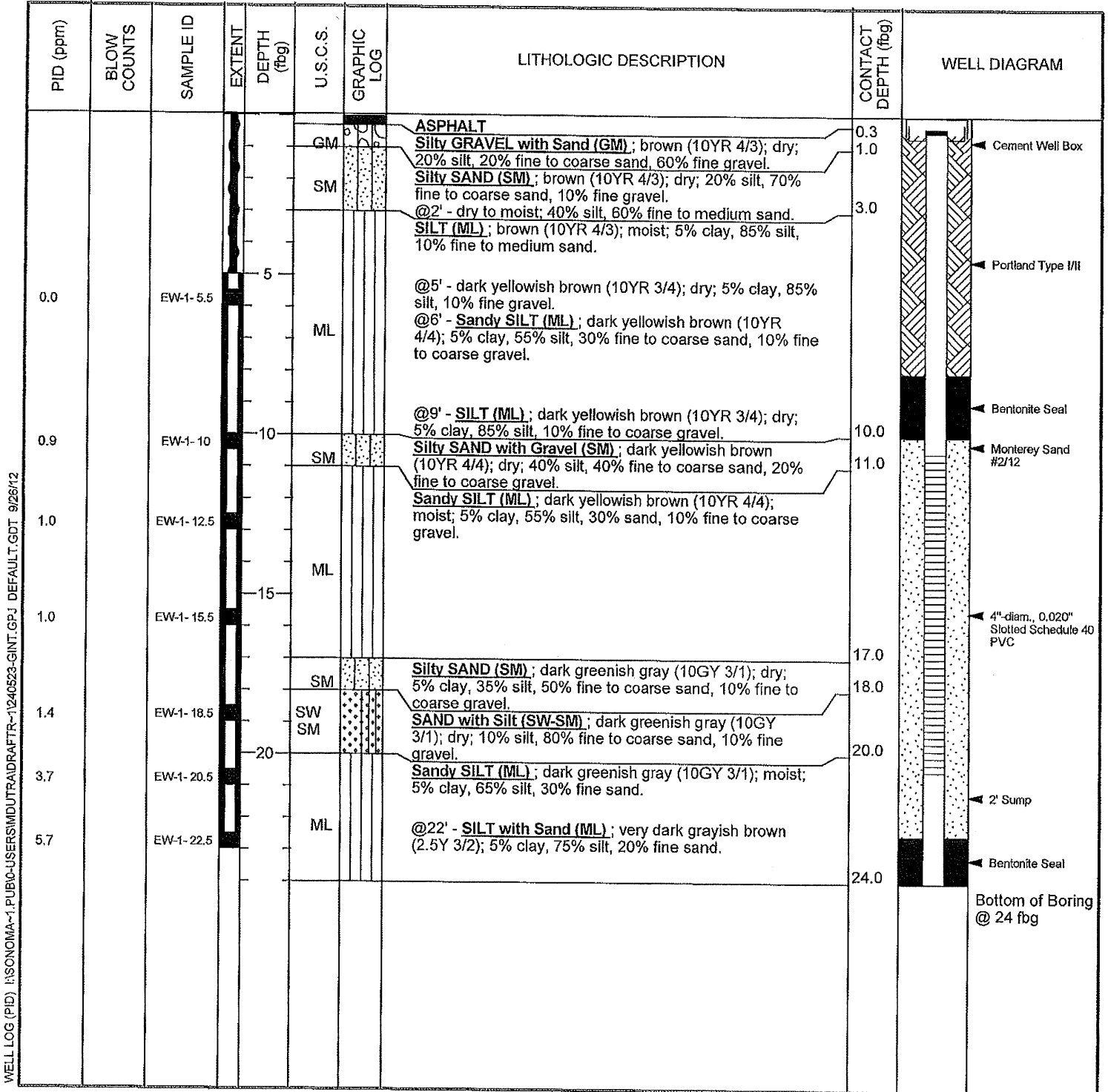
WELL LOG (PID) I:\SONOMA-1.PUB\0-USER\MID\TRADRA\TR-1\240523-GINT.GPJ DEFAULT.GDT 9/26/12



Conestoga-Rovers & Associates  
 5900 Hollis Street, Suite A  
 Emeryville, CA  
 Telephone: 510-420-0700  
 Fax: 510-420-9170

# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	EW-1
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	20-Aug-12
PROJECT NUMBER	240523	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	372.68 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.14 ft above msl
BORING DIAMETER	10"	SCREENED INTERVALS	10.5 to 20.5 fbg
LOGGED BY	C. Arganbright	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG 5612	DEPTH TO WATER (Static)	NA
REMARKS	Airknifed to 5 fbg.		



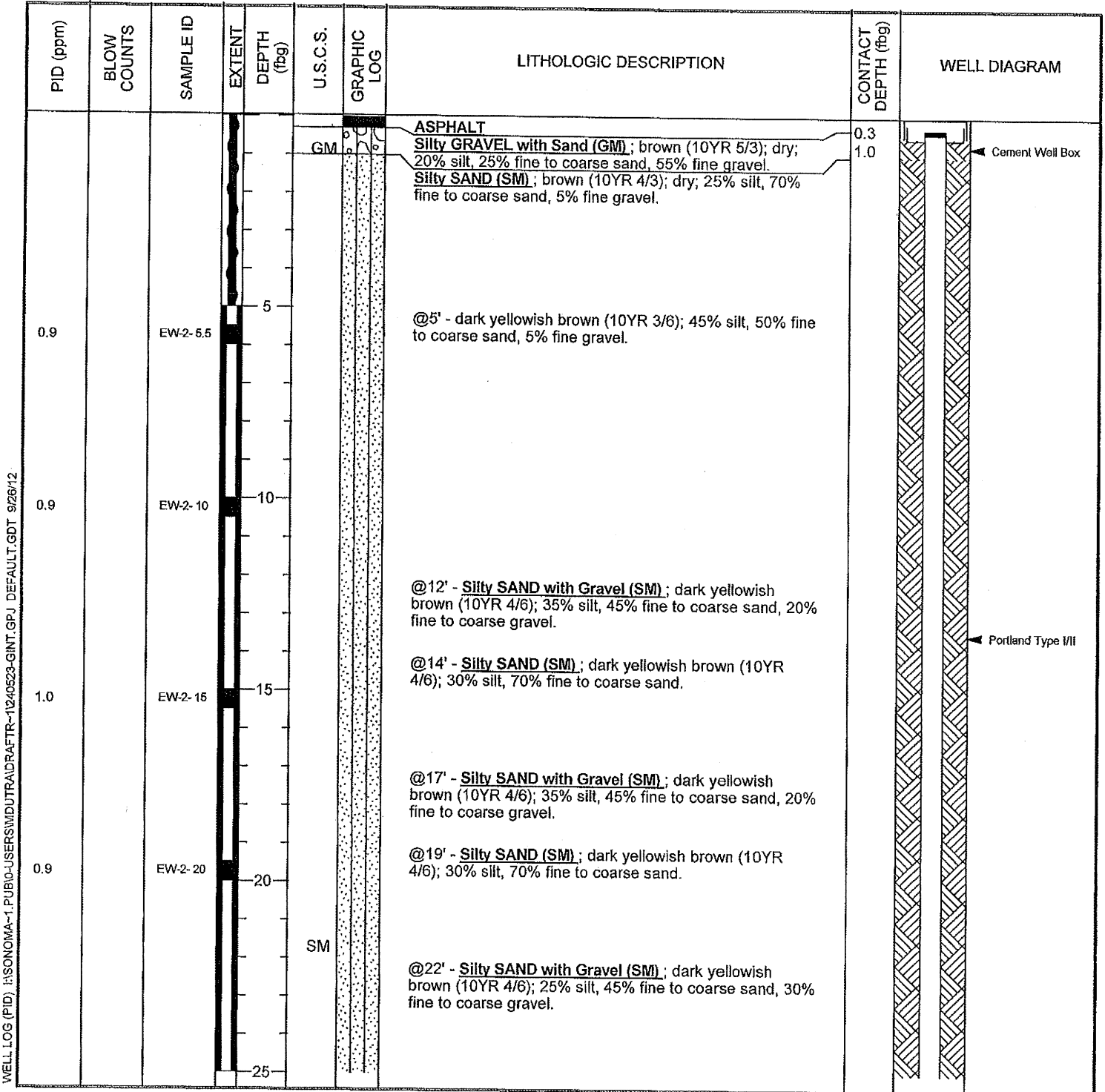
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# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	EW-2
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	20-Aug-12
PROJECT NUMBER	240523	WELL DEVELOPMENT DATE (YIELD)	31-Aug-12 (25.0 Gallons)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	373.19 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.74 ft above msl
BORING DIAMETER	10"	SCREENED INTERVALS	30 to 40 fbg
LOGGED BY	C. Arganbright	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG 5612	DEPTH TO WATER (Static)	33.61 fbg (31-Aug-12)
REMARKS	Airknifed to 5 fbg.		



WELL LOG (PID) I:\SONOMA-1.PUB\10-USER\MD\UTRAID\RAFR-1240523-GINT.GPJ DEFAULT.GDT 9/26/12

Continued Next Page



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# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	EW-2
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	20-Aug-12

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1.1		EW-2-25						
2.1		EW-2-30	30			@28' - <b>Silty SAND (SM)</b> ; dark yellowish brown (10YR 4/6); moist; 20% silt, 80% fine to coarse sand.		<p>Bentonite Seal</p> <p>Monterey Sand #2/12</p> <p>4"-diam., 0.020" Slotted Schedule 40 PVC</p> <p>2' Sump</p> <p>Bentonite Seal</p>
36.8		EW-2-35	35					
13.6		EW-2-40	40			@32' - <b>Silty SAND with Gravel (SM)</b> ; dark grayish brown (2.5Y 4/2); dry; 30% silt, 45% fine to coarse sand, 25% fine to coarse gravel.		
							42.0	Bottom of Boring @ 42 fbg

WELL LOG (PID) I:\SONOMA-1\PUB10-USER\MD\UTRADRAFTER-1\240523-GINT.GPJ DEFAULT.GDT 9/25/12



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# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	P-1
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	21-Aug-12
PROJECT NUMBER	240523	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	372.94 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.51 ft above msl
BORING DIAMETER	8"	SCREENED INTERVALS	10.5 to 20.5 fbg
LOGGED BY	C. Arganbright	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG 5612	DEPTH TO WATER (Static)	NA
REMARKS	Airknifed to 5 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							<b>ASPHALT</b>	0.3	<p>Cement Well Box</p> <p>Portland Type III</p> <p>Bentonite Seal</p> <p>Monterey Sand #2/12</p> <p>2" diam., Schedule 40 PVC</p> <p>Bottom of Boring @ 22 fbg</p>
					GM		<b>Silty GRAVEL with Sand (GM)</b> ; brown (10YR 4/3); dry; 20% silt, 25% fine to coarse sand, 55% fine gravel.	2.5	
							<b>Silty SAND (SM)</b> ; brown (10YR 4/3); dry; 30% silt, 60% fine to coarse sand, 10% fine gravel. @3' - dry to moist; 5% clay, 30% silt, 60% fine to medium sand, 5% fine gravel.		
0.5		P-1-5.5		5			@5' - greenish black (5G 2.5/1); moist; 5% clay, 30% silt, 60% fine to coarse sand, 5% fine gravel.		
							@6' - dark yellowish brown (10YR 4/4); 5% clay, 25% silt, 65% fine to coarse sand, 5% fine to coarse gravel.		
0.5		P-1-10		10			@10' - 30% silt, 60% fine to coarse sand, 10% fine to coarse gravel.		
					SM		@11' <b>Silty SAND with Gravel (SM)</b> ; dark yellowish brown (10YR 4/4); 30% silt, 50% fine to coarse sand, 20% fine to coarse gravel.		
1.7		P-1-14.5		15			@14' - <b>Silty SAND (SM)</b> ; dark yellowish brown (10YR 4/6); 40% silt, 55% fine to coarse sand, 5% fine gravel.		
3.1		P-1-16.5		16			@16' - 5% clay, 40% silt, 55% fine to coarse sand.		
6.0		P-1-20		20			@19.5' - <b>Silty SAND with Gravel (SM)</b> ; dark yellowish brown (10YR 4/6); 30% silt, 50% fine to coarse sand, 20% fine to coarse gravel.		
7.7		P-1-21.5		21			@20' - <b>Silty SAND (SM)</b> ; dark yellowish brown (10YR 4/6); 5% clay, 40% silt, 55% fine to coarse sand.	22.0	

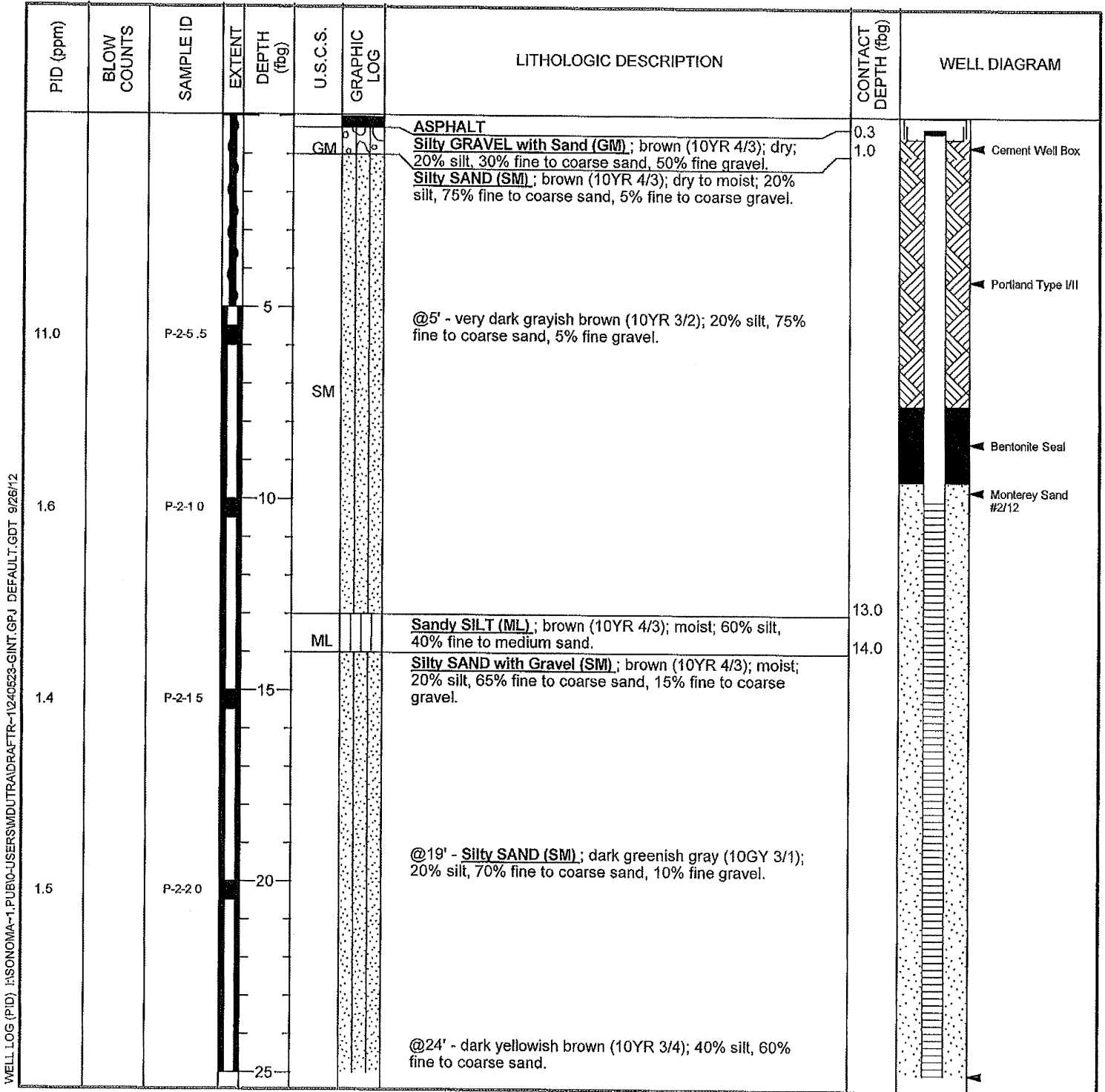
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 Fax: 510-420-9170

# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	P-2
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	22-Aug-12
PROJECT NUMBER	240523	WELL DEVELOPMENT DATE (YIELD)	31-Aug-12 (7.9 Gallons)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	372.79 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.39 ft above msl
BORING DIAMETER	8"	SCREENED INTERVALS	10 to 40 fbg
LOGGED BY	C. Arganbright	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG 5612	DEPTH TO WATER (Static)	33.42 fbg (31-Aug-12)
REMARKS	Airknifed to 5 fbg.		



Continued Next Page





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# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	P-2
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	22-Aug-12

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1.8		P-2-25						<p>2" diam., Schedule 40 PVC</p>
5.3		P-2-30	30	SM		<p>@29' - dark greenish gray (5GY 3/1); 30% silt, 60% fine to coarse sand, 10% fine gravel.</p>		
14.7 111.8		P-2-34.5 P-2-35	35			<p>@34' - <u>Silty SAND with Gravel (SM)</u>; dark yellowish brown (10YR 4/6); 30% silt, 55% fine to coarse sand, 15% fine to coarse gravel.</p>		
14.7		P-2-40	40				40.0	
								Bottom of Boring @ 40 fbg

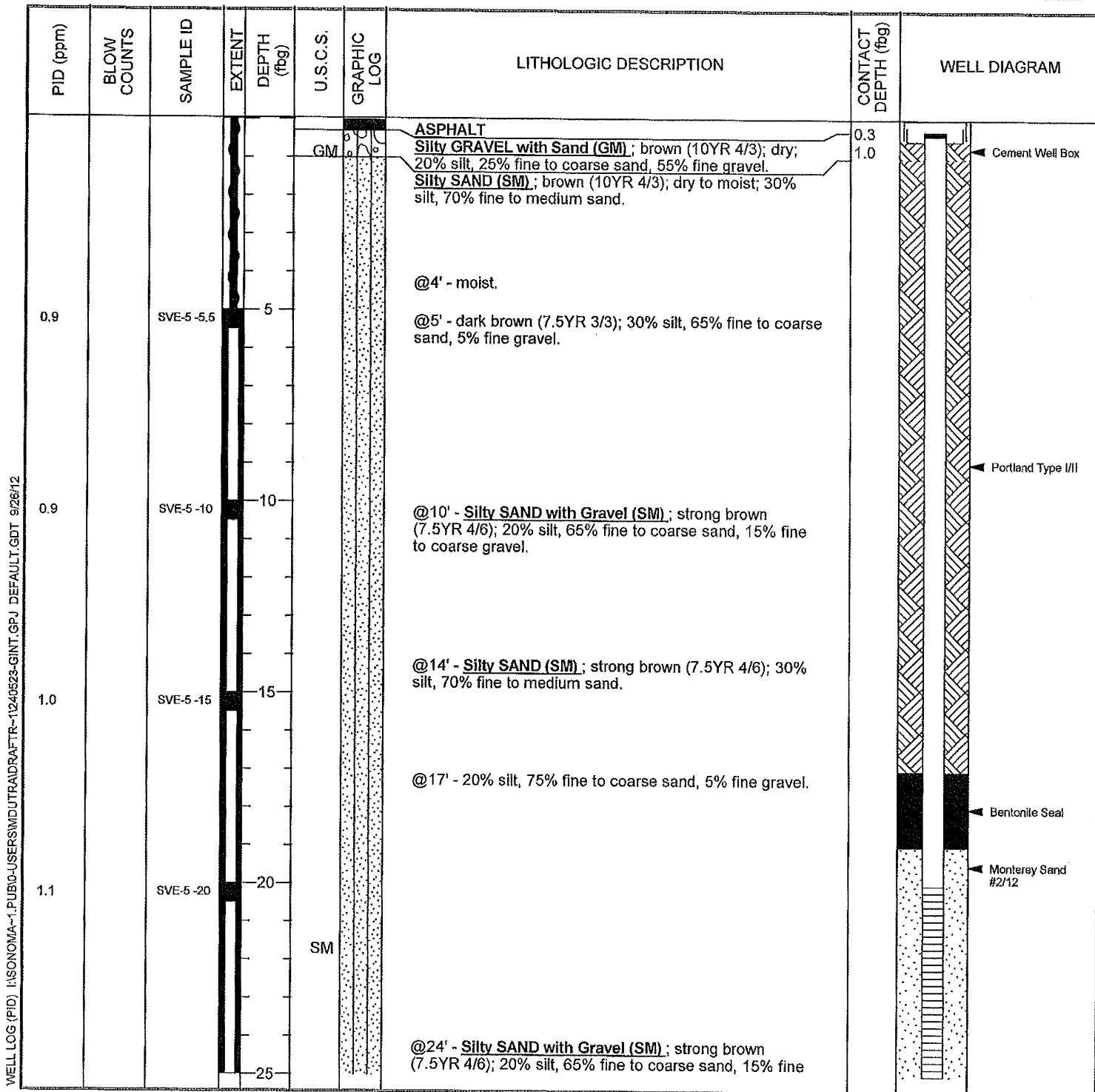
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Conestoga-Rovers & Associates  
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 Emeryville, CA  
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 Fax: 510-420-9170

# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVE-5
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	21-Aug-12
PROJECT NUMBER	240523	WELL DEVELOPMENT DATE (YIELD)	31-Aug-12 (17.4 Gallons)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	373.38 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.93 ft above msl
BORING DIAMETER	10"	SCREENED INTERVALS	20 to 40 fbg
LOGGED BY	C. Arganbright	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer PG 5612	DEPTH TO WATER (Static)	33.83 fbg (31-Aug-12)
REMARKS	Airknifed to 5 fbg.		



Continued Next Page



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 5900 Hollis Street, Suite A  
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 Fax: 510-420-9170

# BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVE-5
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	13-Aug-12
LOCATION	4212 First Street, Pleasanton, California	DRILLING COMPLETED	21-Aug-12

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1.0		SVE-5 -25				gravel.		
0.9		SVE-5 -30	30			@27' - <b>Silty SAND (SM)</b> ; strong brown (7.5YR 4/6); 20% silt, 80% fine to medium sand.		
1.0		SVE-5 -35	35			@33' - <b>Silty SAND with Gravel (SM)</b> ; dark yellowish brown (10YR 4/4); 20% silt, 65% fine to coarse sand, 15% fine gravel. ▼		
3.8		SVE-5 -40	40			@40' - 20% silt, 55% fine to coarse sand, 25% fine to coarse gravel.		
							42.0	4"-diam., 0.020" Slotted Schedule 40 PVC  2' Sump Bentonite Seal  Bottom of Boring @ 42 fbg

WELL LOG (PID) I:\SONOMA-1\PUBID-USERS\MID\ULTRADRAFTTR-11240523-GINT.GPJ DEFAULT.GDT 9/28/12

APPENDIX D  
LABORATORY ANALYTICAL REPORTS

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-21469-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/5/2012 10:32:13 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

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Have a Question?



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*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: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-21469-1	P-1-21.5	Solid	08/21/12 08:14	08/24/12 09:25
440-21469-2	SVE-5-5.5	Solid	08/21/12 10:11	08/24/12 09:25
440-21469-3	SVE-5-10	Solid	08/21/12 10:16	08/24/12 09:25
440-21469-4	SVE-5-15	Solid	08/21/12 10:25	08/24/12 09:25
440-21469-5	SVE-5-20	Solid	08/21/12 10:26	08/24/12 09:25
440-21469-6	SVE-5-25	Solid	08/21/12 10:30	08/24/12 09:25
440-21469-7	SVE-5-30	Solid	08/21/12 10:39	08/24/12 09:25
440-21469-8	SVE-5-35	Solid	08/21/12 10:46	08/24/12 09:25
440-21469-9	SVE-5-40	Solid	08/21/12 10:53	08/24/12 09:25
440-21469-10	EW-2-20'	Solid	08/20/12 11:30	08/24/12 09:25
440-21469-11	EW-2-25'	Solid	08/20/12 11:37	08/24/12 09:25
440-21469-12	EW-2-30'	Solid	08/20/12 11:42	08/24/12 09:25
440-21469-13	EW-2-35'	Solid	08/20/12 11:49	08/24/12 09:25
440-21469-14	EW-2-40'	Solid	08/20/12 11:56	08/24/12 09:25
440-21469-15	P-1-5.5	Solid	08/21/12 07:38	08/24/12 09:25
440-21469-16	P-1-10	Solid	08/21/12 07:48	08/24/12 09:25
440-21469-17	P-1-14.5	Solid	08/21/12 07:55	08/24/12 09:25
440-21469-18	P-1-16.5	Solid	08/21/12 08:06	08/24/12 09:25
440-21469-19	P-1-20	Solid	08/21/12 08:11	08/24/12 09:25
440-21469-20	EW-1-5.5'	Solid	08/20/12 08:36	08/24/12 09:25
440-21469-21	EW-1-10'	Solid	08/20/12 08:46	08/24/12 09:25
440-21469-22	EW-1-12.5'	Solid	08/20/12 08:52	08/24/12 09:25
440-21469-23	EW-1-15.5	Solid	08/20/12 08:57	08/24/12 09:25
440-21469-24	EW-1-17.5'	Solid	08/20/12 09:03	08/24/12 09:25
440-21469-25	EW-1-20.5'	Solid	08/20/12 09:11	08/24/12 09:25
440-21469-26	EW-1-22.5'	Solid	08/20/12 09:15	08/24/12 09:25
440-21469-27	EW-2-5.5'	Solid	08/20/12 11:16	08/24/12 09:25
440-21469-28	EW-2-10'	Solid	08/20/12 11:25	08/24/12 09:25
440-21469-29	EW-2-15	Solid	08/20/12 11:26	08/24/12 09:25
440-21469-30	P-2-5.5'	Solid	08/22/12 08:23	08/24/12 09:25
440-21469-31	P-2-10'	Solid	08/22/12 08:26	08/24/12 09:25
440-21469-32	P-2-15'	Solid	08/22/12 08:31	08/24/12 09:25
440-21469-33	P-2-20'	Solid	08/22/12 08:37	08/24/12 09:25
440-21469-34	P-2-25'	Solid	08/22/12 08:44	08/24/12 09:25
440-21469-35	P-2-30'	Solid	08/22/12 08:51	08/24/12 09:25
440-21469-36	P-2-35'	Solid	08/22/12 09:00	08/24/12 09:25
440-21469-37	P-2-40'	Solid	08/22/12 09:08	08/24/12 09:25
440-21469-38	AS-1-5'	Solid	08/22/12 11:03	08/24/12 09:25
440-21469-39	AS-1-10'	Solid	08/22/12 11:04	08/24/12 09:25
440-21469-40	AS-1-15'	Solid	08/22/12 11:05	08/24/12 09:25
440-21469-41	AS-1-20'	Solid	08/22/12 11:08	08/24/12 09:25
440-21469-42	AS-1-25'	Solid	08/22/12 11:11	08/24/12 09:25
440-21469-43	AS-1-30'	Solid	08/22/12 11:16	08/24/12 09:25
440-21469-44	AS-1-33'	Solid	08/22/12 11:37	08/24/12 09:25
440-21469-45	AS-1-35'	Solid	08/22/12 11:23	08/24/12 09:25
440-21469-46	AS-1-40'	Solid	08/22/12 11:51	08/24/12 09:25
440-21469-47	AS-1-45'	Solid	08/22/12 12:00	08/24/12 09:25

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Job ID: 440-21469-1

Laboratory: TestAmerica Irvine

### Narrative

#### Job Narrative 440-21469-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/24/2012 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 2.7° C, 2.8° C, 2.9° C, 3.1° C, 3.4° C, 3.4° C, 3.5° C, 3.8° C and 4.0° C.

#### GC/MS VOA

Method(s) 8260B/CA\_LUFTMS: Surrogate recovery for the following sample(s) was outside control limits: EW-2-35' (440-21469-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B/CA\_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: EW-2-40' (440-21469-14), SVE-5-40 (440-21469-9), P-2-35' (440-21469-36), AS-1-45' (440-21469-47). Methyl tert-butyl ether

Method(s) 8260B/CA\_LUFTMS: Internal standard responses were outside of acceptance limits for the following sample(s): AS-1-10' (440-21469-39), AS-1-25' (440-21469-42), AS-1-5' (440-21469-38). The sample(s) shows evidence of matrix interference.

Method(s) 8260B/CA\_LUFTMS: Surrogate recovery for the following sample(s) was outside control limits: AS-1-25' (440-21469-42), AS-1-5' (440-21469-38). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: EW-2-35' (440-21469-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: EW-2-35' (440-21469-13). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: AS-1-25' (440-21469-42), AS-1-5' (440-21469-38). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): AS-1-10' (440-21469-39), AS-1-25' (440-21469-42), AS-1-5' (440-21469-38). The sample(s) shows evidence of matrix interference.

No other analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: P-1-21.5**

**Lab Sample ID: 440-21469-1**

Date Collected: 08/21/12 08:14

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.49</b>		0.099		mg/Kg			08/29/12 12:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Dibromofluoromethane (Surr)</i>	108		80 - 125					08/29/12 12:16	1
<i>4-Bromofluorobenzene (Surr)</i>	111		80 - 120					08/29/12 12:16	1
<i>Toluene-d8 (Surr)</i>	98		80 - 120					08/29/12 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 12:16	1
Toluene	ND		0.00099		mg/Kg			08/29/12 12:16	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 12:16	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 12:16	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.0029</b>		0.0020		mg/Kg			08/29/12 12:16	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.42</b>		0.050		mg/Kg			08/29/12 12:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Toluene-d8 (Surr)</i>	98		80 - 120					08/29/12 12:16	1
<i>4-Bromofluorobenzene (Surr)</i>	111		80 - 120					08/29/12 12:16	1
<i>Dibromofluoromethane (Surr)</i>	108		80 - 125					08/29/12 12:16	1

**Client Sample ID: SVE-5-5.5**

**Lab Sample ID: 440-21469-2**

Date Collected: 08/21/12 10:11

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>ND</b>		0.098		mg/Kg			08/29/12 11:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Dibromofluoromethane (Surr)</i>	106		80 - 125					08/29/12 11:23	1
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120					08/29/12 11:23	1
<i>Toluene-d8 (Surr)</i>	92		80 - 120					08/29/12 11:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00098		mg/Kg			08/29/12 11:23	1
Toluene	ND		0.00098		mg/Kg			08/29/12 11:23	1
Ethylbenzene	ND		0.00098		mg/Kg			08/29/12 11:23	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 11:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 11:23	1
tert-Butyl alcohol (TBA)	ND		0.049		mg/Kg			08/29/12 11:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Toluene-d8 (Surr)</i>	92		80 - 120					08/29/12 11:23	1
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120					08/29/12 11:23	1
<i>Dibromofluoromethane (Surr)</i>	106		80 - 125					08/29/12 11:23	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: SVE-5-10**

**Lab Sample ID: 440-21469-3**

**Date Collected: 08/21/12 10:16**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 11:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	109		80 - 125					08/29/12 11:49	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 11:49	1
Toluene-d8 (Surr)	95		80 - 120					08/29/12 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 11:49	1
Toluene	ND		0.0010		mg/Kg			08/29/12 11:49	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 11:49	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 11:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 11:49	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 11:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/29/12 11:49	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 11:49	1
Dibromofluoromethane (Surr)	109		80 - 125					08/29/12 11:49	1

**Client Sample ID: SVE-5-15**

**Lab Sample ID: 440-21469-4**

**Date Collected: 08/21/12 10:25**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/29/12 10:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	108		80 - 125					08/29/12 10:03	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 10:03	1
Toluene-d8 (Surr)	95		80 - 120					08/29/12 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 10:03	1
Toluene	ND		0.00099		mg/Kg			08/29/12 10:03	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 10:03	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 10:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 10:03	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 10:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/29/12 10:03	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 10:03	1
Dibromofluoromethane (Surr)	108		80 - 125					08/29/12 10:03	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: SVE-5-20**

**Lab Sample ID: 440-21469-5**

Date Collected: 08/21/12 10:26

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/29/12 12:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	110		80 - 125					08/29/12 12:43	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/29/12 12:43	1
Toluene-d8 (Surr)	95		80 - 120					08/29/12 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 12:43	1
Toluene	ND		0.00099		mg/Kg			08/29/12 12:43	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 12:43	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 12:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 12:43	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 12:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/29/12 12:43	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/29/12 12:43	1
Dibromofluoromethane (Surr)	110		80 - 125					08/29/12 12:43	1

**Client Sample ID: SVE-5-25**

**Lab Sample ID: 440-21469-6**

Date Collected: 08/21/12 10:30

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/29/12 13:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	109		80 - 125					08/29/12 13:09	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 13:09	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 13:09	1
Toluene	ND		0.00099		mg/Kg			08/29/12 13:09	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 13:09	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 13:09	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 13:09	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 13:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/29/12 13:09	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 13:09	1
Dibromofluoromethane (Surr)	109		80 - 125					08/29/12 13:09	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: SVE-5-30**

**Lab Sample ID: 440-21469-7**

**Date Collected: 08/21/12 10:39**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 13:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	110		80 - 125					08/29/12 13:36	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 13:36	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 13:36	1
Toluene	ND		0.0010		mg/Kg			08/29/12 13:36	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 13:36	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 13:36	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.0025</b>		0.0020		mg/Kg			08/29/12 13:36	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 13:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/29/12 13:36	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 13:36	1
Dibromofluoromethane (Surr)	110		80 - 125					08/29/12 13:36	1

**Client Sample ID: SVE-5-35**

**Lab Sample ID: 440-21469-8**

**Date Collected: 08/21/12 10:46**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/29/12 14:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	115		80 - 125					08/29/12 14:03	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 14:03	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 14:03	1
Toluene	ND		0.00099		mg/Kg			08/29/12 14:03	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 14:03	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 14:03	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.0028</b>		0.0020		mg/Kg			08/29/12 14:03	1
tert-Butyl alcohol (TBA)	ND		0.049		mg/Kg			08/29/12 14:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/29/12 14:03	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 14:03	1
Dibromofluoromethane (Surr)	115		80 - 125					08/29/12 14:03	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: SVE-5-40**

**Lab Sample ID: 440-21469-9**

Date Collected: 08/21/12 10:53

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.21</b>		0.19		mg/Kg			08/29/12 16:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	120		80 - 125					08/29/12 16:43	1
4-Bromofluorobenzene (Surr)	94		80 - 120					08/29/12 16:43	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0019		mg/Kg			08/29/12 16:43	1
Toluene	ND		0.0019		mg/Kg			08/29/12 16:43	1
Ethylbenzene	ND		0.0019		mg/Kg			08/29/12 16:43	1
Xylenes, Total	ND		0.0039		mg/Kg			08/29/12 16:43	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.13</b>		0.0039		mg/Kg			08/29/12 16:43	1
tert-Butyl alcohol (TBA)	ND		0.097		mg/Kg			08/29/12 16:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/29/12 16:43	1
4-Bromofluorobenzene (Surr)	94		80 - 120					08/29/12 16:43	1
Dibromofluoromethane (Surr)	120		80 - 125					08/29/12 16:43	1

**Client Sample ID: EW-2-20'**

**Lab Sample ID: 440-21469-10**

Date Collected: 08/20/12 11:30

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>ND</b>		0.099		mg/Kg			08/29/12 14:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	116		80 - 125					08/29/12 14:29	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 14:29	1
Toluene-d8 (Surr)	98		80 - 120					08/29/12 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 14:29	1
Toluene	ND		0.00099		mg/Kg			08/29/12 14:29	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 14:29	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 14:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 14:29	1
tert-Butyl alcohol (TBA)	ND		0.049		mg/Kg			08/29/12 14:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	98		80 - 120					08/29/12 14:29	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 14:29	1
Dibromofluoromethane (Surr)	116		80 - 125					08/29/12 14:29	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: EW-2-25'**

**Lab Sample ID: 440-21469-11**

Date Collected: 08/20/12 11:37

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.098		mg/Kg			08/29/12 14:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	117		80 - 125					08/29/12 14:56	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/29/12 14:56	1
Toluene-d8 (Surr)	95		80 - 120					08/29/12 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00098		mg/Kg			08/29/12 14:56	1
Toluene	ND		0.00098		mg/Kg			08/29/12 14:56	1
Ethylbenzene	ND		0.00098		mg/Kg			08/29/12 14:56	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 14:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 14:56	1
tert-Butyl alcohol (TBA)	ND		0.049		mg/Kg			08/29/12 14:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/29/12 14:56	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/29/12 14:56	1
Dibromofluoromethane (Surr)	117		80 - 125					08/29/12 14:56	1

**Client Sample ID: EW-2-30'**

**Lab Sample ID: 440-21469-12**

Date Collected: 08/20/12 11:42

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 15:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	121		80 - 125					08/29/12 15:23	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/29/12 15:23	1
Toluene-d8 (Surr)	97		80 - 120					08/29/12 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 15:23	1
Toluene	ND		0.0010		mg/Kg			08/29/12 15:23	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 15:23	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 15:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 15:23	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 15:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97		80 - 120					08/29/12 15:23	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/29/12 15:23	1
Dibromofluoromethane (Surr)	121		80 - 125					08/29/12 15:23	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: EW-2-35'**

**Lab Sample ID: 440-21469-13**

Date Collected: 08/20/12 11:49

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>110</b>		20		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	81		55 - 140				08/30/12 22:06	08/31/12 01:57	200
4-Bromofluorobenzene (Surr)	89		65 - 140				08/30/12 22:06	08/31/12 01:57	200
Toluene-d8 (Surr)	94		60 - 140				08/30/12 22:06	08/31/12 01:57	200

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.20		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
Toluene	ND		0.20		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
Ethylbenzene	ND		0.20		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
Xylenes, Total	ND		0.40		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
Methyl-t-Butyl Ether (MTBE)	ND		0.50		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
tert-Butyl alcohol (TBA)	ND		10		mg/Kg		08/30/12 22:06	08/31/12 01:57	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	94		60 - 140				08/30/12 22:06	08/31/12 01:57	200
4-Bromofluorobenzene (Surr)	89		65 - 140				08/30/12 22:06	08/31/12 01:57	200
Dibromofluoromethane (Surr)	81		55 - 140				08/30/12 22:06	08/31/12 01:57	200

**Client Sample ID: EW-2-40'**

**Lab Sample ID: 440-21469-14**

Date Collected: 08/20/12 11:56

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.30</b>		0.098		mg/Kg			08/29/12 15:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	115		80 - 125					08/29/12 15:50	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/29/12 15:50	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 15:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00098		mg/Kg			08/29/12 15:50	1
Toluene	ND		0.00098		mg/Kg			08/29/12 15:50	1
Ethylbenzene	ND		0.00098		mg/Kg			08/29/12 15:50	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 15:50	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.094</b>		0.0020		mg/Kg			08/29/12 15:50	1
tert-Butyl alcohol (TBA)	ND		0.049		mg/Kg			08/29/12 15:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/29/12 15:50	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/29/12 15:50	1
Dibromofluoromethane (Surr)	115		80 - 125					08/29/12 15:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: P-1-5.5

## Lab Sample ID: 440-21469-15

Date Collected: 08/21/12 07:38

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.098		mg/Kg			08/29/12 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	119		80 - 125					08/29/12 16:17	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/29/12 16:17	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00098		mg/Kg			08/29/12 16:17	1
Toluene	ND		0.00098		mg/Kg			08/29/12 16:17	1
Ethylbenzene	ND		0.00098		mg/Kg			08/29/12 16:17	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 16:17	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 16:17	1
tert-Butyl alcohol (TBA)	ND		0.049		mg/Kg			08/29/12 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120					08/29/12 16:17	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/29/12 16:17	1
Dibromofluoromethane (Surr)	119		80 - 125					08/29/12 16:17	1

## Client Sample ID: P-1-10

## Lab Sample ID: 440-21469-16

Date Collected: 08/21/12 07:48

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 20:37	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/29/12 20:37	1
Toluene-d8 (Surr)	95		80 - 120					08/29/12 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 20:37	1
Toluene	ND		0.0010		mg/Kg			08/29/12 20:37	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 20:37	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 20:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 20:37	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120					08/29/12 20:37	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/29/12 20:37	1
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 20:37	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: P-1-14.5

## Lab Sample ID: 440-21469-17

Date Collected: 08/21/12 07:55

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 21:58	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/29/12 21:58	1
Toluene-d8 (Surr)	93		80 - 120					08/29/12 21:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 21:58	1
Toluene	ND		0.0010		mg/Kg			08/29/12 21:58	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 21:58	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 21:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 21:58	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120					08/29/12 21:58	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/29/12 21:58	1
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 21:58	1

## Client Sample ID: P-1-16.5

## Lab Sample ID: 440-21469-18

Date Collected: 08/21/12 08:06

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	0.85		0.099		mg/Kg			08/29/12 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 22:24	1
4-Bromofluorobenzene (Surr)	107		80 - 120					08/29/12 22:24	1
Toluene-d8 (Surr)	97		80 - 120					08/29/12 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 22:24	1
Toluene	ND		0.00099		mg/Kg			08/29/12 22:24	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 22:24	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 22:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 22:24	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120					08/29/12 22:24	1
4-Bromofluorobenzene (Surr)	107		80 - 120					08/29/12 22:24	1
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 22:24	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: P-1-20**

**Lab Sample ID: 440-21469-19**

Date Collected: 08/21/12 08:11

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1.0</b>		0.10		mg/Kg			08/29/12 22:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	98		80 - 125					08/29/12 22:51	1
4-Bromofluorobenzene (Surr)	105		80 - 120					08/29/12 22:51	1
Toluene-d8 (Surr)	92		80 - 120					08/29/12 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 22:51	1
Toluene	ND		0.0010		mg/Kg			08/29/12 22:51	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 22:51	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 22:51	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.0020</b>		0.0020		mg/Kg			08/29/12 22:51	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.21</b>		0.051		mg/Kg			08/29/12 22:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	92		80 - 120					08/29/12 22:51	1
4-Bromofluorobenzene (Surr)	105		80 - 120					08/29/12 22:51	1
Dibromofluoromethane (Surr)	98		80 - 125					08/29/12 22:51	1

**Client Sample ID: EW-1-5.5'**

**Lab Sample ID: 440-21469-20**

Date Collected: 08/20/12 08:36

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>ND</b>		0.10		mg/Kg			08/29/12 23:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	103		80 - 125					08/29/12 23:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 23:17	1
Toluene-d8 (Surr)	96		80 - 120					08/29/12 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 23:17	1
Toluene	ND		0.0010		mg/Kg			08/29/12 23:17	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 23:17	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 23:17	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 23:17	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 23:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/29/12 23:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120					08/29/12 23:17	1
Dibromofluoromethane (Surr)	103		80 - 125					08/29/12 23:17	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: EW-1-10'**

**Lab Sample ID: 440-21469-21**

Date Collected: 08/20/12 08:46

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 23:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	98		80 - 125					08/29/12 23:44	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/29/12 23:44	1
Toluene-d8 (Surr)	94		80 - 120					08/29/12 23:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 23:44	1
Toluene	ND		0.0010		mg/Kg			08/29/12 23:44	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 23:44	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 23:44	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 23:44	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 23:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	94		80 - 120					08/29/12 23:44	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/29/12 23:44	1
Dibromofluoromethane (Surr)	98		80 - 125					08/29/12 23:44	1

**Client Sample ID: EW-1-12.5'**

**Lab Sample ID: 440-21469-22**

Date Collected: 08/20/12 08:52

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 00:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	105		80 - 125					08/30/12 00:11	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/30/12 00:11	1
Toluene-d8 (Surr)	98		80 - 120					08/30/12 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 00:11	1
Toluene	ND		0.0010		mg/Kg			08/30/12 00:11	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 00:11	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 00:11	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 00:11	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 00:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	98		80 - 120					08/30/12 00:11	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/30/12 00:11	1
Dibromofluoromethane (Surr)	105		80 - 125					08/30/12 00:11	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: EW-1-15.5**

**Lab Sample ID: 440-21469-23**

Date Collected: 08/20/12 08:57

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 00:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	105		80 - 125					08/30/12 00:37	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 00:37	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 00:37	1
Toluene	ND		0.0010		mg/Kg			08/30/12 00:37	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 00:37	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 00:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 00:37	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 00:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/30/12 00:37	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 00:37	1
Dibromofluoromethane (Surr)	105		80 - 125					08/30/12 00:37	1

**Client Sample ID: EW-1-17.5'**

**Lab Sample ID: 440-21469-24**

Date Collected: 08/20/12 09:03

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 01:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	108		80 - 125					08/30/12 01:04	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/30/12 01:04	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 01:04	1
Toluene	ND		0.00099		mg/Kg			08/30/12 01:04	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 01:04	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 01:04	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 01:04	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 01:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	93		80 - 120					08/30/12 01:04	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/30/12 01:04	1
Dibromofluoromethane (Surr)	108		80 - 125					08/30/12 01:04	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: EW-1-20.5'**

**Lab Sample ID: 440-21469-25**

Date Collected: 08/20/12 09:11

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.12</b>		0.099		mg/Kg			08/29/12 23:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	92		80 - 125					08/29/12 23:34	1
4-Bromofluorobenzene (Surr)	93		80 - 120					08/29/12 23:34	1
Toluene-d8 (Surr)	94		80 - 120					08/29/12 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/29/12 23:34	1
Toluene	ND		0.00099		mg/Kg			08/29/12 23:34	1
Ethylbenzene	ND		0.00099		mg/Kg			08/29/12 23:34	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 23:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 23:34	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.083</b>		0.050		mg/Kg			08/29/12 23:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	94		80 - 120					08/29/12 23:34	1
4-Bromofluorobenzene (Surr)	93		80 - 120					08/29/12 23:34	1
Dibromofluoromethane (Surr)	92		80 - 125					08/29/12 23:34	1

**Client Sample ID: EW-1-22.5'**

**Lab Sample ID: 440-21469-26**

Date Collected: 08/20/12 09:15

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.33</b>		0.10		mg/Kg			08/30/12 00:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	91		80 - 125					08/30/12 00:02	1
4-Bromofluorobenzene (Surr)	92		80 - 120					08/30/12 00:02	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 00:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 00:02	1
Toluene	ND		0.0010		mg/Kg			08/30/12 00:02	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 00:02	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 00:02	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.0035</b>		0.0020		mg/Kg			08/30/12 00:02	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.39</b>		0.050		mg/Kg			08/30/12 00:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/30/12 00:02	1
4-Bromofluorobenzene (Surr)	92		80 - 120					08/30/12 00:02	1
Dibromofluoromethane (Surr)	91		80 - 125					08/30/12 00:02	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: EW-2-5.5'**

**Lab Sample ID: 440-21469-27**

Date Collected: 08/20/12 11:16

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 00:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	91		80 - 125					08/30/12 00:30	1
4-Bromofluorobenzene (Surr)	88		80 - 120					08/30/12 00:30	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 00:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 00:30	1
Toluene	ND		0.00099		mg/Kg			08/30/12 00:30	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 00:30	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 00:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 00:30	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 00:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/30/12 00:30	1
4-Bromofluorobenzene (Surr)	88		80 - 120					08/30/12 00:30	1
Dibromofluoromethane (Surr)	91		80 - 125					08/30/12 00:30	1

**Client Sample ID: EW-2-10'**

**Lab Sample ID: 440-21469-28**

Date Collected: 08/20/12 11:25

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 00:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	93		80 - 125					08/30/12 00:57	1
4-Bromofluorobenzene (Surr)	91		80 - 120					08/30/12 00:57	1
Toluene-d8 (Surr)	94		80 - 120					08/30/12 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 00:57	1
Toluene	ND		0.00099		mg/Kg			08/30/12 00:57	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 00:57	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 00:57	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 00:57	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 00:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	94		80 - 120					08/30/12 00:57	1
4-Bromofluorobenzene (Surr)	91		80 - 120					08/30/12 00:57	1
Dibromofluoromethane (Surr)	93		80 - 125					08/30/12 00:57	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: EW-2-15

## Lab Sample ID: 440-21469-29

Date Collected: 08/20/12 11:26

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		80 - 125					08/30/12 01:25	1
4-Bromofluorobenzene (Surr)	90		80 - 120					08/30/12 01:25	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 01:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 01:25	1
Toluene	ND		0.0010		mg/Kg			08/30/12 01:25	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 01:25	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 01:25	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 01:25	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120					08/30/12 01:25	1
4-Bromofluorobenzene (Surr)	90		80 - 120					08/30/12 01:25	1
Dibromofluoromethane (Surr)	93		80 - 125					08/30/12 01:25	1

## Client Sample ID: P-2-5.5'

## Lab Sample ID: 440-21469-30

Date Collected: 08/22/12 08:23

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 125					08/30/12 01:53	1
4-Bromofluorobenzene (Surr)	88		80 - 120					08/30/12 01:53	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 01:53	1
Toluene	ND		0.00099		mg/Kg			08/30/12 01:53	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 01:53	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 01:53	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 01:53	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120					08/30/12 01:53	1
4-Bromofluorobenzene (Surr)	88		80 - 120					08/30/12 01:53	1
Dibromofluoromethane (Surr)	95		80 - 125					08/30/12 01:53	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: P-2-10'**

**Lab Sample ID: 440-21469-31**

Date Collected: 08/22/12 08:26

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 13:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	106		80 - 125					08/30/12 13:41	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/30/12 13:41	1
Toluene-d8 (Surr)	92		80 - 120					08/30/12 13:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 13:41	1
Toluene	ND		0.00099		mg/Kg			08/30/12 13:41	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 13:41	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 13:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 13:41	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 13:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	92		80 - 120					08/30/12 13:41	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/30/12 13:41	1
Dibromofluoromethane (Surr)	106		80 - 125					08/30/12 13:41	1

**Client Sample ID: P-2-15'**

**Lab Sample ID: 440-21469-32**

Date Collected: 08/22/12 08:31

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 14:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	110		80 - 125					08/30/12 14:08	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/30/12 14:08	1
Toluene-d8 (Surr)	96		80 - 120					08/30/12 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 14:08	1
Toluene	ND		0.00099		mg/Kg			08/30/12 14:08	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 14:08	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 14:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 14:08	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 14:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/30/12 14:08	1
4-Bromofluorobenzene (Surr)	96		80 - 120					08/30/12 14:08	1
Dibromofluoromethane (Surr)	110		80 - 125					08/30/12 14:08	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: P-2-20'**

**Lab Sample ID: 440-21469-33**

**Date Collected: 08/22/12 08:37**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 14:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	113		80 - 125					08/30/12 14:34	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/30/12 14:34	1
Toluene-d8 (Surr)	98		80 - 120					08/30/12 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 14:34	1
Toluene	ND		0.0010		mg/Kg			08/30/12 14:34	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 14:34	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 14:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 14:34	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 14:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	98		80 - 120					08/30/12 14:34	1
4-Bromofluorobenzene (Surr)	97		80 - 120					08/30/12 14:34	1
Dibromofluoromethane (Surr)	113		80 - 125					08/30/12 14:34	1

**Client Sample ID: P-2-25'**

**Lab Sample ID: 440-21469-34**

**Date Collected: 08/22/12 08:44**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 12:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	102		80 - 125					08/30/12 12:21	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/30/12 12:21	1
Toluene-d8 (Surr)	97		80 - 120					08/30/12 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 12:21	1
Toluene	ND		0.00099		mg/Kg			08/30/12 12:21	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 12:21	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 12:21	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 12:21	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.24</b>		0.050		mg/Kg			08/30/12 12:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97		80 - 120					08/30/12 12:21	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/30/12 12:21	1
Dibromofluoromethane (Surr)	102		80 - 125					08/30/12 12:21	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: P-2-30'**

**Lab Sample ID: 440-21469-35**

Date Collected: 08/22/12 08:51

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 15:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	112		80 - 125					08/30/12 15:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/30/12 15:01	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 15:01	1
Toluene	ND		0.0010		mg/Kg			08/30/12 15:01	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 15:01	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 15:01	1
Methyl-t-Butyl Ether (MTBE)	0.0030		0.0020		mg/Kg			08/30/12 15:01	1
tert-Butyl alcohol (TBA)	0.066		0.050		mg/Kg			08/30/12 15:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/30/12 15:01	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/30/12 15:01	1
Dibromofluoromethane (Surr)	112		80 - 125					08/30/12 15:01	1

**Client Sample ID: P-2-35'**

**Lab Sample ID: 440-21469-36**

Date Collected: 08/22/12 09:00

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	0.24		0.10		mg/Kg			08/30/12 15:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	108		80 - 125					08/30/12 15:28	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/30/12 15:28	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0098		0.0010		mg/Kg			08/30/12 15:28	1
Toluene	ND		0.0010		mg/Kg			08/30/12 15:28	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 15:28	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 15:28	1
Methyl-t-Butyl Ether (MTBE)	0.080		0.0020		mg/Kg			08/30/12 15:28	1
tert-Butyl alcohol (TBA)	0.29		0.050		mg/Kg			08/30/12 15:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	93		80 - 120					08/30/12 15:28	1
4-Bromofluorobenzene (Surr)	102		80 - 120					08/30/12 15:28	1
Dibromofluoromethane (Surr)	108		80 - 125					08/30/12 15:28	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: P-2-40'**

**Lab Sample ID: 440-21469-37**

Date Collected: 08/22/12 09:08

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.21</b>		0.10		mg/Kg			08/30/12 15:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	111		80 - 125					08/30/12 15:55	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/30/12 15:55	1
Toluene-d8 (Surr)	98		80 - 120					08/30/12 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 15:55	1
Toluene	ND		0.0010		mg/Kg			08/30/12 15:55	1
Ethylbenzene	0.0020		0.0010		mg/Kg			08/30/12 15:55	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 15:55	1
Methyl-t-Butyl Ether (MTBE)	0.016		0.0020		mg/Kg			08/30/12 15:55	1
tert-Butyl alcohol (TBA)	0.20		0.050		mg/Kg			08/30/12 15:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	98		80 - 120					08/30/12 15:55	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/30/12 15:55	1
Dibromofluoromethane (Surr)	111		80 - 125					08/30/12 15:55	1

**Client Sample ID: AS-1-5'**

**Lab Sample ID: 440-21469-38**

Date Collected: 08/22/12 11:03

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 16:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	126	X	80 - 125					08/30/12 16:21	1
4-Bromofluorobenzene (Surr)	84		80 - 120					08/30/12 16:21	1
Toluene-d8 (Surr)	88		80 - 120					08/30/12 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 16:21	1
Toluene	ND		0.00099		mg/Kg			08/30/12 16:21	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 16:21	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 16:21	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 16:21	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 16:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	88		80 - 120					08/30/12 16:21	1
4-Bromofluorobenzene (Surr)	84		80 - 120					08/30/12 16:21	1
Dibromofluoromethane (Surr)	126	X	80 - 125					08/30/12 16:21	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: AS-1-10'**

**Lab Sample ID: 440-21469-39**

Date Collected: 08/22/12 11:04

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 16:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	118		80 - 125					08/30/12 16:48	1
4-Bromofluorobenzene (Surr)	87		80 - 120					08/30/12 16:48	1
Toluene-d8 (Surr)	97		80 - 120					08/30/12 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 16:48	1
Toluene	ND		0.0010		mg/Kg			08/30/12 16:48	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 16:48	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 16:48	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 16:48	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 16:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97		80 - 120					08/30/12 16:48	1
4-Bromofluorobenzene (Surr)	87		80 - 120					08/30/12 16:48	1
Dibromofluoromethane (Surr)	118		80 - 125					08/30/12 16:48	1

**Client Sample ID: AS-1-15'**

**Lab Sample ID: 440-21469-40**

Date Collected: 08/22/12 11:05

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/31/12 17:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	93		80 - 125					08/31/12 17:14	1
4-Bromofluorobenzene (Surr)	89		80 - 120					08/31/12 17:14	1
Toluene-d8 (Surr)	94		80 - 120					08/31/12 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/31/12 17:14	1
Toluene	ND		0.00099		mg/Kg			08/31/12 17:14	1
Ethylbenzene	ND		0.00099		mg/Kg			08/31/12 17:14	1
Xylenes, Total	ND		0.0020		mg/Kg			08/31/12 17:14	1
Methyl-t-Butyl Ether (MTBE)	0.0035		0.0020		mg/Kg			08/31/12 17:14	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/31/12 17:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	94		80 - 120					08/31/12 17:14	1
4-Bromofluorobenzene (Surr)	89		80 - 120					08/31/12 17:14	1
Dibromofluoromethane (Surr)	93		80 - 125					08/31/12 17:14	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: AS-1-20'**

**Lab Sample ID: 440-21469-41**

Date Collected: 08/22/12 11:08

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 17:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	118		80 - 125					08/30/12 17:41	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 17:41	1
Toluene-d8 (Surr)	99		80 - 120					08/30/12 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 17:41	1
Toluene	ND		0.0010		mg/Kg			08/30/12 17:41	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 17:41	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 17:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 17:41	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 17:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	99		80 - 120					08/30/12 17:41	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 17:41	1
Dibromofluoromethane (Surr)	118		80 - 125					08/30/12 17:41	1

**Client Sample ID: AS-1-25'**

**Lab Sample ID: 440-21469-42**

Date Collected: 08/22/12 11:11

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 18:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	132	X	80 - 125					08/30/12 18:08	1
4-Bromofluorobenzene (Surr)	87		80 - 120					08/30/12 18:08	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 18:08	1
Toluene	ND		0.0010		mg/Kg			08/30/12 18:08	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 18:08	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 18:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 18:08	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 18:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/30/12 18:08	1
4-Bromofluorobenzene (Surr)	87		80 - 120					08/30/12 18:08	1
Dibromofluoromethane (Surr)	132	X	80 - 125					08/30/12 18:08	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: AS-1-30'**

**Lab Sample ID: 440-21469-43**

Date Collected: 08/22/12 11:16

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 18:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	117		80 - 125					08/30/12 18:35	1
4-Bromofluorobenzene (Surr)	103		80 - 120					08/30/12 18:35	1
Toluene-d8 (Surr)	96		80 - 120					08/30/12 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 18:35	1
Toluene	ND		0.00099		mg/Kg			08/30/12 18:35	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 18:35	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 18:35	1
Methyl-t-Butyl Ether (MTBE)	0.0038		0.0020		mg/Kg			08/30/12 18:35	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 18:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		80 - 120					08/30/12 18:35	1
4-Bromofluorobenzene (Surr)	103		80 - 120					08/30/12 18:35	1
Dibromofluoromethane (Surr)	117		80 - 125					08/30/12 18:35	1

**Client Sample ID: AS-1-33'**

**Lab Sample ID: 440-21469-44**

Date Collected: 08/22/12 11:37

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 19:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	119		80 - 125					08/30/12 19:02	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/30/12 19:02	1
Toluene-d8 (Surr)	97		80 - 120					08/30/12 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 19:02	1
Toluene	ND		0.00099		mg/Kg			08/30/12 19:02	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 19:02	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 19:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 19:02	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 19:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97		80 - 120					08/30/12 19:02	1
4-Bromofluorobenzene (Surr)	101		80 - 120					08/30/12 19:02	1
Dibromofluoromethane (Surr)	119		80 - 125					08/30/12 19:02	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: AS-1-35'**

**Lab Sample ID: 440-21469-45**

Date Collected: 08/22/12 11:23

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.099		mg/Kg			08/30/12 19:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	119		80 - 125					08/30/12 19:29	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 19:29	1
Toluene-d8 (Surr)	98		80 - 120					08/30/12 19:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 19:29	1
Toluene	ND		0.00099		mg/Kg			08/30/12 19:29	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 19:29	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 19:29	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.0040</b>		0.0020		mg/Kg			08/30/12 19:29	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 19:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	98		80 - 120					08/30/12 19:29	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 19:29	1
Dibromofluoromethane (Surr)	119		80 - 125					08/30/12 19:29	1

**Client Sample ID: AS-1-40'**

**Lab Sample ID: 440-21469-46**

Date Collected: 08/22/12 11:51

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 13:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	96		80 - 125					08/30/12 13:39	1
4-Bromofluorobenzene (Surr)	92		80 - 120					08/30/12 13:39	1
Toluene-d8 (Surr)	95		80 - 120					08/30/12 13:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 13:39	1
Toluene	ND		0.0010		mg/Kg			08/30/12 13:39	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 13:39	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 13:39	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.012</b>		0.0020		mg/Kg			08/30/12 13:39	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.61</b>		0.050		mg/Kg			08/30/12 13:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	95		80 - 120					08/30/12 13:39	1
4-Bromofluorobenzene (Surr)	92		80 - 120					08/30/12 13:39	1
Dibromofluoromethane (Surr)	96		80 - 125					08/30/12 13:39	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

**Client Sample ID: AS-1-45'**

**Lab Sample ID: 440-21469-47**

Date Collected: 08/22/12 12:00

Matrix: Solid

Date Received: 08/24/12 09:25

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>0.55</b>		0.24		mg/Kg			08/30/12 14:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Dibromofluoromethane (Surr)</i>	95		80 - 125					08/30/12 14:06	1
<i>4-Bromofluorobenzene (Surr)</i>	90		80 - 120					08/30/12 14:06	1
<i>Toluene-d8 (Surr)</i>	95		80 - 120					08/30/12 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0024		mg/Kg			08/30/12 14:06	1
Toluene	ND		0.0024		mg/Kg			08/30/12 14:06	1
Ethylbenzene	ND		0.0024		mg/Kg			08/30/12 14:06	1
Xylenes, Total	ND		0.0049		mg/Kg			08/30/12 14:06	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>0.76</b>		0.0049		mg/Kg			08/30/12 14:06	1
<b>tert-Butyl alcohol (TBA)</b>	<b>0.24</b>		0.12		mg/Kg			08/30/12 14:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Toluene-d8 (Surr)</i>	95		80 - 120					08/30/12 14:06	1
<i>4-Bromofluorobenzene (Surr)</i>	90		80 - 120					08/30/12 14:06	1
<i>Dibromofluoromethane (Surr)</i>	95		80 - 125					08/30/12 14:06	1



# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: P-1-21.5

Date Collected: 08/21/12 08:14

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	48519	08/29/12 12:16	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	48520	08/29/12 12:16	CP	TAL IRV

## Client Sample ID: SVE-5-5.5

Date Collected: 08/21/12 10:11

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.09 g	10 mL	48519	08/29/12 11:23	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.09 g	10 mL	48520	08/29/12 11:23	CP	TAL IRV

## Client Sample ID: SVE-5-10

Date Collected: 08/21/12 10:16

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	48519	08/29/12 11:49	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48520	08/29/12 11:49	CP	TAL IRV

## Client Sample ID: SVE-5-15

Date Collected: 08/21/12 10:25

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	48519	08/29/12 10:03	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	48520	08/29/12 10:03	CP	TAL IRV

## Client Sample ID: SVE-5-20

Date Collected: 08/21/12 10:26

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-5

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	8260B		1	5.04 g	10 mL	48519	08/29/12 12:43	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	48520	08/29/12 12:43	CP	TAL IRV

## Client Sample ID: SVE-5-25

Date Collected: 08/21/12 10:30

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48519	08/29/12 13:09	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48520	08/29/12 13:09	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: SVE-5-30

Lab Sample ID: 440-21469-7

Date Collected: 08/21/12 10:39

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	48519	08/29/12 13:36	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48520	08/29/12 13:36	CP	TAL IRV

## Client Sample ID: SVE-5-35

Lab Sample ID: 440-21469-8

Date Collected: 08/21/12 10:46

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	10 mL	48519	08/29/12 14:03	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.07 g	10 mL	48520	08/29/12 14:03	CP	TAL IRV

## Client Sample ID: SVE-5-40

Lab Sample ID: 440-21469-9

Date Collected: 08/21/12 10:53

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	2.59 g	10 mL	48519	08/29/12 16:43	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	2.59 g	10 mL	48520	08/29/12 16:43	CP	TAL IRV

## Client Sample ID: EW-2-20'

Lab Sample ID: 440-21469-10

Date Collected: 08/20/12 11:30

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	10 mL	48519	08/29/12 14:29	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.07 g	10 mL	48520	08/29/12 14:29	CP	TAL IRV

## Client Sample ID: EW-2-25'

Lab Sample ID: 440-21469-11

Date Collected: 08/20/12 11:37

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.11 g	10 mL	48519	08/29/12 14:56	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.11 g	10 mL	48520	08/29/12 14:56	CP	TAL IRV

## Client Sample ID: EW-2-30'

Lab Sample ID: 440-21469-12

Date Collected: 08/20/12 11:42

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	48519	08/29/12 15:23	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48520	08/29/12 15:23	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: EW-2-35'

Lab Sample ID: 440-21469-13

Date Collected: 08/20/12 11:49

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			10.03 g	10 mL	49098	08/30/12 22:06	DB	TAL IRV
Total/NA	Analysis	8260B		200			49063	08/31/12 01:57	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		200			49064	08/31/12 01:57	GK	TAL IRV

## Client Sample ID: EW-2-40'

Lab Sample ID: 440-21469-14

Date Collected: 08/20/12 11:56

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.08 g	10 mL	48519	08/29/12 15:50	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.08 g	10 mL	48520	08/29/12 15:50	CP	TAL IRV

## Client Sample ID: P-1-5.5

Lab Sample ID: 440-21469-15

Date Collected: 08/21/12 07:38

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.1 g	10 mL	48519	08/29/12 16:17	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.1 g	10 mL	48520	08/29/12 16:17	CP	TAL IRV

## Client Sample ID: P-1-10

Lab Sample ID: 440-21469-16

Date Collected: 08/21/12 07:48

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4.99 g	10 mL	48744	08/29/12 20:37	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	4.99 g	10 mL	48745	08/29/12 20:37	YK	TAL IRV

## Client Sample ID: P-1-14.5

Lab Sample ID: 440-21469-17

Date Collected: 08/21/12 07:55

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	48744	08/29/12 21:58	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48745	08/29/12 21:58	YK	TAL IRV

## Client Sample ID: P-1-16.5

Lab Sample ID: 440-21469-18

Date Collected: 08/21/12 08:06

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	48744	08/29/12 22:24	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	48745	08/29/12 22:24	YK	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: P-1-20

Date Collected: 08/21/12 08:11  
Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-19

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	8260B		1	4.95 g	10 mL	48744	08/29/12 22:51	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	4.95 g	10 mL	48745	08/29/12 22:51	YK	TAL IRV

## Client Sample ID: EW-1-5.5'

Date Collected: 08/20/12 08:36  
Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-20

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	8260B		1	5 g	10 mL	48744	08/29/12 23:17	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48745	08/29/12 23:17	YK	TAL IRV

## Client Sample ID: EW-1-10'

Date Collected: 08/20/12 08:46  
Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-21

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	8260B		1	4.96 g	10 mL	48744	08/29/12 23:44	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	4.96 g	10 mL	48745	08/29/12 23:44	YK	TAL IRV

## Client Sample ID: EW-1-12.5'

Date Collected: 08/20/12 08:52  
Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-22

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	8260B		1	5 g	10 mL	48744	08/30/12 00:11	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48745	08/30/12 00:11	YK	TAL IRV

## Client Sample ID: EW-1-15.5'

Date Collected: 08/20/12 08:57  
Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-23

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	8260B		1	5.01 g	10 mL	48744	08/30/12 00:37	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	48745	08/30/12 00:37	YK	TAL IRV

## Client Sample ID: EW-1-17.5'

Date Collected: 08/20/12 09:03  
Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-24

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	8260B		1	5.05 g	10 mL	48744	08/30/12 01:04	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	48745	08/30/12 01:04	YK	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: EW-1-20.5'

Lab Sample ID: 440-21469-25

Date Collected: 08/20/12 09:11

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48739	08/29/12 23:34	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48740	08/29/12 23:34	GK	TAL IRV

## Client Sample ID: EW-1-22.5'

Lab Sample ID: 440-21469-26

Date Collected: 08/20/12 09:15

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	4.96 g	10 mL	48739	08/30/12 00:02	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	4.96 g	10 mL	48740	08/30/12 00:02	GK	TAL IRV

## Client Sample ID: EW-2-5.5'

Lab Sample ID: 440-21469-27

Date Collected: 08/20/12 11:16

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48739	08/30/12 00:30	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48740	08/30/12 00:30	GK	TAL IRV

## Client Sample ID: EW-2-10'

Lab Sample ID: 440-21469-28

Date Collected: 08/20/12 11:25

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48739	08/30/12 00:57	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48740	08/30/12 00:57	GK	TAL IRV

## Client Sample ID: EW-2-15

Lab Sample ID: 440-21469-29

Date Collected: 08/20/12 11:26

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	48739	08/30/12 01:25	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	48740	08/30/12 01:25	GK	TAL IRV

## Client Sample ID: P-2-5.5'

Lab Sample ID: 440-21469-30

Date Collected: 08/22/12 08:23

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	48739	08/30/12 01:53	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	48740	08/30/12 01:53	GK	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: P-2-10'

Lab Sample ID: 440-21469-31

Date Collected: 08/22/12 08:26

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	48825	08/30/12 13:41	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	48826	08/30/12 13:41	CP	TAL IRV

## Client Sample ID: P-2-15'

Lab Sample ID: 440-21469-32

Date Collected: 08/22/12 08:31

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48825	08/30/12 14:08	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48826	08/30/12 14:08	CP	TAL IRV

## Client Sample ID: P-2-20'

Lab Sample ID: 440-21469-33

Date Collected: 08/22/12 08:37

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	48825	08/30/12 14:34	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48826	08/30/12 14:34	CP	TAL IRV

## Client Sample ID: P-2-25'

Lab Sample ID: 440-21469-34

Date Collected: 08/22/12 08:44

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48825	08/30/12 12:21	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48826	08/30/12 12:21	CP	TAL IRV

## Client Sample ID: P-2-30'

Lab Sample ID: 440-21469-35

Date Collected: 08/22/12 08:51

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	48825	08/30/12 15:01	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48826	08/30/12 15:01	CP	TAL IRV

## Client Sample ID: P-2-35'

Lab Sample ID: 440-21469-36

Date Collected: 08/22/12 09:00

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	48825	08/30/12 15:28	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48826	08/30/12 15:28	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: P-2-40'

Lab Sample ID: 440-21469-37

Date Collected: 08/22/12 09:08

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	48825	08/30/12 15:55	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	48826	08/30/12 15:55	CP	TAL IRV

## Client Sample ID: AS-1-5'

Lab Sample ID: 440-21469-38

Date Collected: 08/22/12 11:03

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48825	08/30/12 16:21	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48826	08/30/12 16:21	CP	TAL IRV

## Client Sample ID: AS-1-10'

Lab Sample ID: 440-21469-39

Date Collected: 08/22/12 11:04

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	48825	08/30/12 16:48	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48826	08/30/12 16:48	CP	TAL IRV

## Client Sample ID: AS-1-15'

Lab Sample ID: 440-21469-40

Date Collected: 08/22/12 11:05

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	49118	08/31/12 17:14	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	49119	08/31/12 17:14	YK	TAL IRV

## Client Sample ID: AS-1-20'

Lab Sample ID: 440-21469-41

Date Collected: 08/22/12 11:08

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	48825	08/30/12 17:41	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48826	08/30/12 17:41	CP	TAL IRV

## Client Sample ID: AS-1-25'

Lab Sample ID: 440-21469-42

Date Collected: 08/22/12 11:11

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	48825	08/30/12 18:08	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48826	08/30/12 18:08	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Client Sample ID: AS-1-30'

Lab Sample ID: 440-21469-43

Date Collected: 08/22/12 11:16

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	48825	08/30/12 18:35	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.04 g	10 mL	48826	08/30/12 18:35	CP	TAL IRV

## Client Sample ID: AS-1-33'

Lab Sample ID: 440-21469-44

Date Collected: 08/22/12 11:37

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	48825	08/30/12 19:02	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	48826	08/30/12 19:02	CP	TAL IRV

## Client Sample ID: AS-1-35'

Lab Sample ID: 440-21469-45

Date Collected: 08/22/12 11:23

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.03 g	10 mL	48825	08/30/12 19:29	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.03 g	10 mL	48826	08/30/12 19:29	CP	TAL IRV

## Client Sample ID: AS-1-40'

Lab Sample ID: 440-21469-46

Date Collected: 08/22/12 11:51

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	48823	08/30/12 13:39	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48824	08/30/12 13:39	CP	TAL IRV

## Client Sample ID: AS-1-45'

Lab Sample ID: 440-21469-47

Date Collected: 08/22/12 12:00

Matrix: Solid

Date Received: 08/24/12 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	2.05 g	10 mL	48823	08/30/12 14:06	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	2.05 g	10 mL	48824	08/30/12 14:06	CP	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: MB 440-48519/4**

**Matrix: Solid**

**Analysis Batch: 48519**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 08:39	1
Toluene	ND		0.0010		mg/Kg			08/29/12 08:39	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 08:39	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 08:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 08:39	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 08:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		08/29/12 08:39	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/29/12 08:39	1
Dibromofluoromethane (Surr)	106		80 - 125		08/29/12 08:39	1

**Lab Sample ID: LCS 440-48519/5**

**Matrix: Solid**

**Analysis Batch: 48519**

**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	0.0411		mg/Kg		82	65 - 120
Toluene	0.0500	0.0459		mg/Kg		92	70 - 125
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 125
m,p-Xylene	0.100	0.0962		mg/Kg		96	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0421		mg/Kg		84	60 - 140
o-Xylene	0.0500	0.0506		mg/Kg		101	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.306		mg/Kg		123	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	113		80 - 125

**Lab Sample ID: 440-21469-4 MS**

**Matrix: Solid**

**Analysis Batch: 48519**

**Client Sample ID: SVE-5-15**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0492	0.0385		mg/Kg		78	65 - 130
Toluene	ND		0.0492	0.0443		mg/Kg		90	70 - 130
Ethylbenzene	ND		0.0492	0.0453		mg/Kg		92	70 - 135
m,p-Xylene	ND		0.0984	0.0944		mg/Kg		96	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0492	0.0415		mg/Kg		84	55 - 155
o-Xylene	ND		0.0492	0.0468		mg/Kg		95	65 - 130
tert-Butyl alcohol (TBA)	ND		0.246	0.287		mg/Kg		117	65 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	115		80 - 125

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: 440-21469-4 MSD**

**Matrix: Solid**

**Analysis Batch: 48519**

**Client Sample ID: SVE-5-15**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0492	0.0387		mg/Kg		79	65 - 130	1	20
Toluene	ND		0.0492	0.0439		mg/Kg		89	70 - 130	1	20
Ethylbenzene	ND		0.0492	0.0447		mg/Kg		91	70 - 135	1	25
m,p-Xylene	ND		0.0984	0.0906		mg/Kg		92	70 - 130	4	25
Methyl-t-Butyl Ether (MTBE)	ND		0.0492	0.0398		mg/Kg		81	55 - 155	4	35
o-Xylene	ND		0.0492	0.0479		mg/Kg		97	65 - 130	2	25
tert-Butyl alcohol (TBA)	ND		0.246	0.272		mg/Kg		111	65 - 145	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	111		80 - 125

**Lab Sample ID: MB 440-48739/4**

**Matrix: Solid**

**Analysis Batch: 48739**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/29/12 21:12	1
Toluene	ND		0.0010		mg/Kg			08/29/12 21:12	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 21:12	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 21:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 21:12	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 21:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		08/29/12 21:12	1
4-Bromofluorobenzene (Surr)	92		80 - 120		08/29/12 21:12	1
Dibromofluoromethane (Surr)	96		80 - 125		08/29/12 21:12	1

**Lab Sample ID: LCS 440-48739/5**

**Matrix: Solid**

**Analysis Batch: 48739**

**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	0.0450		mg/Kg		90	65 - 120
Toluene	0.0500	0.0447		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	70 - 125
m,p-Xylene	0.100	0.0999		mg/Kg		100	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0483		mg/Kg		97	60 - 140
o-Xylene	0.0500	0.0505		mg/Kg		101	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.273		mg/Kg		109	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	99		80 - 125

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: 440-21469-25 MS**

**Matrix: Solid**

**Analysis Batch: 48739**

**Client Sample ID: EW-1-20.5'**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.0497	0.0463		mg/Kg		93	65 - 130
Toluene	ND		0.0497	0.0463		mg/Kg		93	70 - 130
Ethylbenzene	ND		0.0497	0.0490		mg/Kg		99	70 - 135
m,p-Xylene	ND		0.0994	0.102		mg/Kg		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0497	0.0471		mg/Kg		93	55 - 155
o-Xylene	ND		0.0497	0.0509		mg/Kg		102	65 - 130
tert-Butyl alcohol (TBA)	0.083		0.249	0.356		mg/Kg		110	65 - 145

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	94		80 - 125

**Lab Sample ID: 440-21469-25 MSD**

**Matrix: Solid**

**Analysis Batch: 48739**

**Client Sample ID: EW-1-20.5'**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Benzene	ND		0.0503	0.0470		mg/Kg		93	65 - 130	2	20	
Toluene	ND		0.0503	0.0467		mg/Kg		93	70 - 130	1	20	
Ethylbenzene	ND		0.0503	0.0493		mg/Kg		98	70 - 135	1	25	
m,p-Xylene	ND		0.101	0.103		mg/Kg		102	70 - 130	1	25	
Methyl-t-Butyl Ether (MTBE)	ND		0.0503	0.0481		mg/Kg		94	55 - 155	2	35	
o-Xylene	ND		0.0503	0.0518		mg/Kg		103	65 - 130	2	25	
tert-Butyl alcohol (TBA)	0.083		0.252	0.370		mg/Kg		114	65 - 145	4	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	92		80 - 125

**Lab Sample ID: MB 440-48744/4**

**Matrix: Solid**

**Analysis Batch: 48744**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.0010		mg/Kg			08/29/12 19:18	1
Toluene	ND		0.0010		mg/Kg			08/29/12 19:18	1
Ethylbenzene	ND		0.0010		mg/Kg			08/29/12 19:18	1
Xylenes, Total	ND		0.0020		mg/Kg			08/29/12 19:18	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/29/12 19:18	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/29/12 19:18	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	95		80 - 120		08/29/12 19:18	1
4-Bromofluorobenzene (Surr)	100		80 - 120		08/29/12 19:18	1
Dibromofluoromethane (Surr)	101		80 - 125		08/29/12 19:18	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: LCS 440-48744/5**

**Matrix: Solid**

**Analysis Batch: 48744**

**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	0.0397		mg/Kg		79	65 - 120
Toluene	0.0500	0.0439		mg/Kg		88	70 - 125
Ethylbenzene	0.0500	0.0470		mg/Kg		94	70 - 125
m,p-Xylene	0.100	0.0953		mg/Kg		95	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0411		mg/Kg		82	60 - 140
o-Xylene	0.0500	0.0490		mg/Kg		98	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.291		mg/Kg		116	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	107		80 - 125

**Lab Sample ID: 440-21469-16 MS**

**Matrix: Solid**

**Analysis Batch: 48744**

**Client Sample ID: P-1-10**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0499	0.0372		mg/Kg		75	65 - 130
Toluene	ND		0.0499	0.0434		mg/Kg		87	70 - 130
Ethylbenzene	ND		0.0499	0.0471		mg/Kg		94	70 - 135
m,p-Xylene	ND		0.0998	0.0956		mg/Kg		96	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0499	0.0398		mg/Kg		80	55 - 155
o-Xylene	ND		0.0499	0.0505		mg/Kg		101	65 - 130
tert-Butyl alcohol (TBA)	ND		0.250	0.295		mg/Kg		118	65 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	105		80 - 125

**Lab Sample ID: 440-21469-16 MSD**

**Matrix: Solid**

**Analysis Batch: 48744**

**Client Sample ID: P-1-10**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0501	0.0404		mg/Kg		81	65 - 130	8	20
Toluene	ND		0.0501	0.0461		mg/Kg		92	70 - 130	6	20
Ethylbenzene	ND		0.0501	0.0470		mg/Kg		94	70 - 135	0	25
m,p-Xylene	ND		0.100	0.0964		mg/Kg		96	70 - 130	1	25
Methyl-t-Butyl Ether (MTBE)	ND		0.0501	0.0411		mg/Kg		82	55 - 155	3	35
o-Xylene	ND		0.0501	0.0486		mg/Kg		97	65 - 130	4	25
tert-Butyl alcohol (TBA)	ND		0.251	0.293		mg/Kg		117	65 - 145	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	105		80 - 125

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: MB 440-48823/4**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 09:10	1
Toluene	ND		0.0010		mg/Kg			08/30/12 09:10	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 09:10	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 09:10	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 09:10	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 09:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		08/30/12 09:10	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/12 09:10	1
Dibromofluoromethane (Surr)	98		80 - 125		08/30/12 09:10	1

**Lab Sample ID: LCS 440-48823/5**

**Matrix: Solid**

**Analysis Batch: 48823**

**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	0.0449		mg/Kg		90	65 - 120
Toluene	0.0500	0.0452		mg/Kg		90	70 - 125
Ethylbenzene	0.0500	0.0476		mg/Kg		95	70 - 125
m,p-Xylene	0.100	0.0973		mg/Kg		97	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0461		mg/Kg		92	60 - 140
o-Xylene	0.0500	0.0501		mg/Kg		100	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.271		mg/Kg		109	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	99		80 - 125

**Lab Sample ID: 440-21484-A-6 MS**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0496	0.0475		mg/Kg		96	65 - 130
Toluene	ND		0.0496	0.0479		mg/Kg		97	70 - 130
Ethylbenzene	ND		0.0496	0.0518		mg/Kg		104	70 - 135
m,p-Xylene	ND		0.0992	0.107		mg/Kg		108	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0496	0.0437		mg/Kg		88	55 - 155
o-Xylene	ND		0.0496	0.0540		mg/Kg		109	65 - 130
tert-Butyl alcohol (TBA)	ND		0.248	0.308		mg/Kg		124	65 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	90		80 - 125

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: 440-21484-A-6 MSD**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0498	0.0477		mg/Kg		96	65 - 130	0	20
Toluene	ND		0.0498	0.0483		mg/Kg		97	70 - 130	1	20
Ethylbenzene	ND		0.0498	0.0520		mg/Kg		104	70 - 135	0	25
m,p-Xylene	ND		0.0996	0.108		mg/Kg		108	70 - 130	1	25
Methyl-t-Butyl Ether (MTBE)	ND		0.0498	0.0460		mg/Kg		92	55 - 155	5	35
o-Xylene	ND		0.0498	0.0538		mg/Kg		108	65 - 130	0	25
tert-Butyl alcohol (TBA)	ND		0.249	0.315		mg/Kg		127	65 - 145	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	91		80 - 125

**Lab Sample ID: MB 440-48825/4**

**Matrix: Solid**

**Analysis Batch: 48825**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 10:42	1
Toluene	ND		0.0010		mg/Kg			08/30/12 10:42	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 10:42	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 10:42	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/30/12 10:42	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/30/12 10:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		08/30/12 10:42	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/30/12 10:42	1
Dibromofluoromethane (Surr)	105		80 - 125		08/30/12 10:42	1

**Lab Sample ID: LCS 440-48825/5**

**Matrix: Solid**

**Analysis Batch: 48825**

**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	0.0385		mg/Kg		77	65 - 120
Toluene	0.0500	0.0435		mg/Kg		87	70 - 125
Ethylbenzene	0.0500	0.0449		mg/Kg		90	70 - 125
m,p-Xylene	0.100	0.0904		mg/Kg		90	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0410		mg/Kg		82	60 - 140
o-Xylene	0.0500	0.0478		mg/Kg		96	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.272		mg/Kg		109	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	110		80 - 125

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: 440-21469-34 MS**

**Matrix: Solid**

**Analysis Batch: 48825**

**Client Sample ID: P-2-25'**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.0500	0.0429		mg/Kg		86	65 - 130
Toluene	ND		0.0500	0.0485		mg/Kg		97	70 - 130
Ethylbenzene	ND		0.0500	0.0503		mg/Kg		101	70 - 135
m,p-Xylene	ND		0.100	0.106		mg/Kg		106	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0500	0.0441		mg/Kg		86	55 - 155
o-Xylene	ND		0.0500	0.0544		mg/Kg		109	65 - 130
tert-Butyl alcohol (TBA)	0.24		0.250	0.579		mg/Kg		136	65 - 145

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	105		80 - 125

**Lab Sample ID: 440-21469-34 MSD**

**Matrix: Solid**

**Analysis Batch: 48825**

**Client Sample ID: P-2-25'**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Benzene	ND		0.0498	0.0440		mg/Kg		88	65 - 130	2	20	
Toluene	ND		0.0498	0.0497		mg/Kg		100	70 - 130	2	20	
Ethylbenzene	ND		0.0498	0.0552		mg/Kg		111	70 - 135	9	25	
m,p-Xylene	ND		0.0996	0.116		mg/Kg		116	70 - 130	9	25	
Methyl-t-Butyl Ether (MTBE)	ND		0.0498	0.0461		mg/Kg		91	55 - 155	5	35	
o-Xylene	ND		0.0498	0.0582		mg/Kg		117	65 - 130	7	25	
tert-Butyl alcohol (TBA)	0.24		0.249	0.594		mg/Kg		142	65 - 145	3	30	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	110		80 - 120
Dibromofluoromethane (Surr)	105		80 - 125

**Lab Sample ID: MB 440-49063/4**

**Matrix: Solid**

**Analysis Batch: 49063**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.10		mg/Kg			08/30/12 19:28	100
Toluene	ND		0.10		mg/Kg			08/30/12 19:28	100
Ethylbenzene	ND		0.10		mg/Kg			08/30/12 19:28	100
Xylenes, Total	ND		0.20		mg/Kg			08/30/12 19:28	100
Methyl-t-Butyl Ether (MTBE)	ND		0.25		mg/Kg			08/30/12 19:28	100
tert-Butyl alcohol (TBA)	ND		5.0		mg/Kg			08/30/12 19:28	100

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	86		60 - 140		08/30/12 19:28	100
4-Bromofluorobenzene (Surr)	84		65 - 140		08/30/12 19:28	100
Dibromofluoromethane (Surr)	80		55 - 140		08/30/12 19:28	100

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: LCS 440-49063/5**

**Matrix: Solid**

**Analysis Batch: 49063**

**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	2.28		mg/Kg		91	65 - 120
Toluene	2.50	2.29		mg/Kg		91	80 - 120
Ethylbenzene	2.50	2.44		mg/Kg		98	80 - 120
m,p-Xylene	5.00	5.06		mg/Kg		101	70 - 125
Methyl-t-Butyl Ether (MTBE)	2.50	2.09		mg/Kg		84	55 - 145
o-Xylene	2.50	2.54		mg/Kg		102	70 - 125
tert-Butyl alcohol (TBA)	12.5	10.9		mg/Kg		87	65 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	91		60 - 140
4-Bromofluorobenzene (Surr)	88		65 - 140
Dibromofluoromethane (Surr)	88		55 - 140

**Lab Sample ID: LCSD 440-49063/6**

**Matrix: Solid**

**Analysis Batch: 49063**

**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	2.26		mg/Kg		90	65 - 120	1	20
Toluene	2.50	2.24		mg/Kg		90	80 - 120	2	20
Ethylbenzene	2.50	2.45		mg/Kg		98	80 - 120	0	20
m,p-Xylene	5.00	5.09		mg/Kg		102	70 - 125	1	20
Methyl-t-Butyl Ether (MTBE)	2.50	2.08		mg/Kg		83	55 - 145	1	25
o-Xylene	2.50	2.48		mg/Kg		99	70 - 125	2	20
tert-Butyl alcohol (TBA)	12.5	11.6		mg/Kg		92	65 - 140	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	91		60 - 140
4-Bromofluorobenzene (Surr)	89		65 - 140
Dibromofluoromethane (Surr)	87		55 - 140

**Lab Sample ID: MB 440-49118/4**

**Matrix: Solid**

**Analysis Batch: 49118**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/31/12 08:45	1
Toluene	ND		0.0010		mg/Kg			08/31/12 08:45	1
Ethylbenzene	ND		0.0010		mg/Kg			08/31/12 08:45	1
Xylenes, Total	ND		0.0020		mg/Kg			08/31/12 08:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.0020		mg/Kg			08/31/12 08:45	1
tert-Butyl alcohol (TBA)	ND		0.050		mg/Kg			08/31/12 08:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		08/31/12 08:45	1
4-Bromofluorobenzene (Surr)	87		80 - 120		08/31/12 08:45	1
Dibromofluoromethane (Surr)	86		80 - 125		08/31/12 08:45	1



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

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

**Lab Sample ID: LCS 440-49118/5**

**Matrix: Solid**

**Analysis Batch: 49118**

**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	0.0460		mg/Kg		92	65 - 120
Toluene	0.0500	0.0454		mg/Kg		91	70 - 125
Ethylbenzene	0.0500	0.0477		mg/Kg		95	70 - 125
m,p-Xylene	0.100	0.100		mg/Kg		100	70 - 125
Methyl-t-Butyl Ether (MTBE)	0.0500	0.0425		mg/Kg		85	60 - 140
o-Xylene	0.0500	0.0499		mg/Kg		100	70 - 125
tert-Butyl alcohol (TBA)	0.250	0.280		mg/Kg		112	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	89		80 - 125

**Lab Sample ID: 440-21896-A-3 MS**

**Matrix: Solid**

**Analysis Batch: 49118**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0498	0.0472		mg/Kg		95	65 - 130
Toluene	0.0012		0.0498	0.0477		mg/Kg		93	70 - 130
Ethylbenzene	ND		0.0498	0.0505		mg/Kg		101	70 - 135
m,p-Xylene	ND		0.0996	0.107		mg/Kg		107	70 - 130
Methyl-t-Butyl Ether (MTBE)	ND		0.0498	0.0423		mg/Kg		85	55 - 155
o-Xylene	ND		0.0498	0.0526		mg/Kg		106	65 - 130
tert-Butyl alcohol (TBA)	ND		0.249	0.294		mg/Kg		118	65 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	85		80 - 125

**Lab Sample ID: 440-21896-A-3 MSD**

**Matrix: Solid**

**Analysis Batch: 49118**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0499	0.0472		mg/Kg		95	65 - 130	0	20
Toluene	0.0012		0.0499	0.0476		mg/Kg		93	70 - 130	0	20
Ethylbenzene	ND		0.0499	0.0492		mg/Kg		99	70 - 135	3	25
m,p-Xylene	ND		0.0998	0.104		mg/Kg		103	70 - 130	3	25
Methyl-t-Butyl Ether (MTBE)	ND		0.0499	0.0414		mg/Kg		83	55 - 155	2	35
o-Xylene	ND		0.0499	0.0517		mg/Kg		104	65 - 130	2	25
tert-Butyl alcohol (TBA)	ND		0.250	0.298		mg/Kg		120	65 - 145	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	84		80 - 125

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-48520/4**

**Matrix: Solid**

**Analysis Batch: 48520**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 08:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 125		08/29/12 08:39	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/29/12 08:39	1
Toluene-d8 (Surr)	95		80 - 120		08/29/12 08:39	1

**Lab Sample ID: LCS 440-48520/6**

**Matrix: Solid**

**Analysis Batch: 48520**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.894		mg/Kg		89	60 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	107		80 - 125
4-Bromofluorobenzene (Surr)	104		80 - 120
Toluene-d8 (Surr)	97		80 - 120

**Lab Sample ID: 440-21469-4 MS**

**Matrix: Solid**

**Analysis Batch: 48520**

**Client Sample ID: SVE-5-15**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.40	2.84		mg/Kg		84	55 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	115		80 - 125
4-Bromofluorobenzene (Surr)	103		80 - 120
Toluene-d8 (Surr)	95		80 - 120

**Lab Sample ID: 440-21469-4 MSD**

**Matrix: Solid**

**Analysis Batch: 48520**

**Client Sample ID: SVE-5-15**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.40	2.68		mg/Kg		79	55 - 140	6	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	102		80 - 120
Toluene-d8 (Surr)	98		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-48740/4**

**Matrix: Solid**

**Analysis Batch: 48740**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 21:12	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 125					08/29/12 21:12	1
4-Bromofluorobenzene (Surr)	92		80 - 120					08/29/12 21:12	1
Toluene-d8 (Surr)	94		80 - 120					08/29/12 21:12	1

**Lab Sample ID: LCS 440-48740/6**

**Matrix: Solid**

**Analysis Batch: 48740**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.901		mg/Kg		90	60 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	95		80 - 125				
4-Bromofluorobenzene (Surr)	92		80 - 120				
Toluene-d8 (Surr)	96		80 - 120				

**Lab Sample ID: 440-21469-25 MS**

**Matrix: Solid**

**Analysis Batch: 48740**

**Client Sample ID: EW-1-20.5'**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	0.12		3.43	2.92		mg/Kg		81	55 - 140
Surrogate	%Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	94		80 - 125						
4-Bromofluorobenzene (Surr)	91		80 - 120						
Toluene-d8 (Surr)	93		80 - 120						

**Lab Sample ID: 440-21469-25 MSD**

**Matrix: Solid**

**Analysis Batch: 48740**

**Client Sample ID: EW-1-20.5'**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	0.12		3.47	2.94		mg/Kg		81	55 - 140	1	25
Surrogate	%Recovery	MSD Qualifier	Limits								
Dibromofluoromethane (Surr)	92		80 - 125								
4-Bromofluorobenzene (Surr)	91		80 - 120								
Toluene-d8 (Surr)	94		80 - 120								

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-48745/4**

**Matrix: Solid**

**Analysis Batch: 48745**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/29/12 19:18	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 125					08/29/12 19:18	1
4-Bromofluorobenzene (Surr)	100		80 - 120					08/29/12 19:18	1
Toluene-d8 (Surr)	95		80 - 120					08/29/12 19:18	1

**Lab Sample ID: LCS 440-48745/6**

**Matrix: Solid**

**Analysis Batch: 48745**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.888		mg/Kg		89	60 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	100		80 - 125				
4-Bromofluorobenzene (Surr)	105		80 - 120				
Toluene-d8 (Surr)	96		80 - 120				

**Lab Sample ID: 440-21469-16 MS**

**Matrix: Solid**

**Analysis Batch: 48745**

**Client Sample ID: P-1-10**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.74		mg/Kg		79	55 - 140
Surrogate	%Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	105		80 - 125						
4-Bromofluorobenzene (Surr)	100		80 - 120						
Toluene-d8 (Surr)	92		80 - 120						

**Lab Sample ID: 440-21469-16 MSD**

**Matrix: Solid**

**Analysis Batch: 48745**

**Client Sample ID: P-1-10**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.46	2.82		mg/Kg		82	55 - 140	3	25
Surrogate	%Recovery	MSD Qualifier	Limits								
Dibromofluoromethane (Surr)	105		80 - 125								
4-Bromofluorobenzene (Surr)	97		80 - 120								
Toluene-d8 (Surr)	97		80 - 120								

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-48824/4**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 09:10	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 125					08/30/12 09:10	1
4-Bromofluorobenzene (Surr)	91		80 - 120					08/30/12 09:10	1
Toluene-d8 (Surr)	94		80 - 120					08/30/12 09:10	1

**Lab Sample ID: LCS 440-48824/6**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.940		mg/Kg		94	60 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	95		80 - 125				
4-Bromofluorobenzene (Surr)	95		80 - 120				
Toluene-d8 (Surr)	96		80 - 120				

**Lab Sample ID: 440-21484-A-6 MS**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.42	2.91		mg/Kg		85	55 - 140
Surrogate	%Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	90		80 - 125						
4-Bromofluorobenzene (Surr)	93		80 - 120						
Toluene-d8 (Surr)	94		80 - 120						

**Lab Sample ID: 440-21484-A-6 MSD**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.93		mg/Kg		85	55 - 140	0	25
Surrogate	%Recovery	MSD Qualifier	Limits								
Dibromofluoromethane (Surr)	91		80 - 125								
4-Bromofluorobenzene (Surr)	90		80 - 120								
Toluene-d8 (Surr)	94		80 - 120								

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-48826/4**

**Matrix: Solid**

**Analysis Batch: 48826**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 10:42	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 125					08/30/12 10:42	1
4-Bromofluorobenzene (Surr)	98		80 - 120					08/30/12 10:42	1
Toluene-d8 (Surr)	91		80 - 120					08/30/12 10:42	1

**Lab Sample ID: LCS 440-48826/6**

**Matrix: Solid**

**Analysis Batch: 48826**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.930		mg/Kg		93	60 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	103		80 - 125				
4-Bromofluorobenzene (Surr)	103		80 - 120				
Toluene-d8 (Surr)	95		80 - 120				

**Lab Sample ID: 440-21469-34 MS**

**Matrix: Solid**

**Analysis Batch: 48826**

**Client Sample ID: P-2-25'**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.45	3.03		mg/Kg		88	55 - 140
Surrogate	%Recovery	MS Qualifier	Limits						
Dibromofluoromethane (Surr)	105		80 - 125						
4-Bromofluorobenzene (Surr)	103		80 - 120						
Toluene-d8 (Surr)	93		80 - 120						

**Lab Sample ID: 440-21469-34 MSD**

**Matrix: Solid**

**Analysis Batch: 48826**

**Client Sample ID: P-2-25'**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	3.04		mg/Kg		89	55 - 140	0	25
Surrogate	%Recovery	MSD Qualifier	Limits								
Dibromofluoromethane (Surr)	105		80 - 125								
4-Bromofluorobenzene (Surr)	110		80 - 120								
Toluene-d8 (Surr)	94		80 - 120								

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-49064/4**

**Matrix: Solid**

**Analysis Batch: 49064**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		10		mg/Kg			08/30/12 19:28	100
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	80		55 - 140					08/30/12 19:28	100
4-Bromofluorobenzene (Surr)	84		65 - 140					08/30/12 19:28	100
Toluene-d8 (Surr)	86		60 - 140					08/30/12 19:28	100

**Lab Sample ID: LCS 440-49064/7**

**Matrix: Solid**

**Analysis Batch: 49064**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	50.0	47.6		mg/Kg		95	60 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	85		55 - 140				
4-Bromofluorobenzene (Surr)	88		65 - 140				
Toluene-d8 (Surr)	93		60 - 140				

**Lab Sample ID: LCSD 440-49064/8**

**Matrix: Solid**

**Analysis Batch: 49064**

**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
Volatile Fuel Hydrocarbons (C4-C12)	50.0	48.1		mg/Kg		96	60 - 130	1	25
Surrogate	%Recovery	LCSD Qualifier	Limits						
Dibromofluoromethane (Surr)	85		55 - 140						
4-Bromofluorobenzene (Surr)	89		65 - 140						
Toluene-d8 (Surr)	92		60 - 140						

**Lab Sample ID: MB 440-49119/4**

**Matrix: Solid**

**Analysis Batch: 49119**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/31/12 08:45	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	86		80 - 125					08/31/12 08:45	1
4-Bromofluorobenzene (Surr)	87		80 - 120					08/31/12 08:45	1
Toluene-d8 (Surr)	94		80 - 120					08/31/12 08:45	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-49119/6**

**Matrix: Solid**

**Analysis Batch: 49119**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.864		mg/Kg		86	60 - 135
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane (Surr)	87		80 - 125				
4-Bromofluorobenzene (Surr)	91		80 - 120				
Toluene-d8 (Surr)	95		80 - 120				

**Lab Sample ID: 440-21896-A-3 MS**

**Matrix: Solid**

**Analysis Batch: 49119**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.67		mg/Kg		78	55 - 140
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
Dibromofluoromethane (Surr)	85		80 - 125						
4-Bromofluorobenzene (Surr)	88		80 - 120						
Toluene-d8 (Surr)	93		80 - 120						

**Lab Sample ID: 440-21896-A-3 MSD**

**Matrix: Solid**

**Analysis Batch: 49119**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.65		mg/Kg		77	55 - 140	1	25
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Dibromofluoromethane (Surr)	84		80 - 125								
4-Bromofluorobenzene (Surr)	88		80 - 120								
Toluene-d8 (Surr)	94		80 - 120								



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## GC/MS VOA

### Analysis Batch: 48519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-1	P-1-21.5	Total/NA	Solid	8260B	
440-21469-2	SVE-5-5.5	Total/NA	Solid	8260B	
440-21469-3	SVE-5-10	Total/NA	Solid	8260B	
440-21469-4	SVE-5-15	Total/NA	Solid	8260B	
440-21469-4 MS	SVE-5-15	Total/NA	Solid	8260B	
440-21469-4 MSD	SVE-5-15	Total/NA	Solid	8260B	
440-21469-5	SVE-5-20	Total/NA	Solid	8260B	
440-21469-6	SVE-5-25	Total/NA	Solid	8260B	
440-21469-7	SVE-5-30	Total/NA	Solid	8260B	
440-21469-8	SVE-5-35	Total/NA	Solid	8260B	
440-21469-9	SVE-5-40	Total/NA	Solid	8260B	
440-21469-10	EW-2-20'	Total/NA	Solid	8260B	
440-21469-11	EW-2-25'	Total/NA	Solid	8260B	
440-21469-12	EW-2-30'	Total/NA	Solid	8260B	
440-21469-14	EW-2-40'	Total/NA	Solid	8260B	
440-21469-15	P-1-5.5	Total/NA	Solid	8260B	
LCS 440-48519/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-48519/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 48520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-1	P-1-21.5	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-2	SVE-5-5.5	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-3	SVE-5-10	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-4	SVE-5-15	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-4 MS	SVE-5-15	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-4 MSD	SVE-5-15	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-5	SVE-5-20	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-6	SVE-5-25	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-7	SVE-5-30	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-8	SVE-5-35	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-9	SVE-5-40	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-10	EW-2-20'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-11	EW-2-25'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-12	EW-2-30'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-14	EW-2-40'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-15	P-1-5.5	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-48520/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-48520/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## GC/MS VOA (Continued)

### Analysis Batch: 48739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-25	EW-1-20.5'	Total/NA	Solid	8260B	
440-21469-25 MS	EW-1-20.5'	Total/NA	Solid	8260B	
440-21469-25 MSD	EW-1-20.5'	Total/NA	Solid	8260B	
440-21469-26	EW-1-22.5'	Total/NA	Solid	8260B	
440-21469-27	EW-2-5.5'	Total/NA	Solid	8260B	
440-21469-28	EW-2-10'	Total/NA	Solid	8260B	
440-21469-29	EW-2-15	Total/NA	Solid	8260B	
440-21469-30	P-2-5.5'	Total/NA	Solid	8260B	
LCS 440-48739/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-48739/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 48740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-25	EW-1-20.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-25 MS	EW-1-20.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-25 MSD	EW-1-20.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-26	EW-1-22.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-27	EW-2-5.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-28	EW-2-10'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-29	EW-2-15	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-30	P-2-5.5'	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-48740/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-48740/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

### Analysis Batch: 48744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-16	P-1-10	Total/NA	Solid	8260B	
440-21469-16 MS	P-1-10	Total/NA	Solid	8260B	
440-21469-16 MSD	P-1-10	Total/NA	Solid	8260B	
440-21469-17	P-1-14.5	Total/NA	Solid	8260B	
440-21469-18	P-1-16.5	Total/NA	Solid	8260B	
440-21469-19	P-1-20	Total/NA	Solid	8260B	
440-21469-20	EW-1-5.5'	Total/NA	Solid	8260B	
440-21469-21	EW-1-10'	Total/NA	Solid	8260B	
440-21469-22	EW-1-12.5'	Total/NA	Solid	8260B	
440-21469-23	EW-1-15.5	Total/NA	Solid	8260B	
440-21469-24	EW-1-17.5'	Total/NA	Solid	8260B	
LCS 440-48744/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-48744/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 48745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-16	P-1-10	Total/NA	Solid	8260B/CA_LUFT MS	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## GC/MS VOA (Continued)

### Analysis Batch: 48745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-16 MS	P-1-10	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-16 MSD	P-1-10	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-17	P-1-14.5	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-18	P-1-16.5	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-19	P-1-20	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-20	EW-1-5.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-21	EW-1-10'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-22	EW-1-12.5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-23	EW-1-15.5	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-24	EW-1-17.5'	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-48745/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-48745/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

### Analysis Batch: 48823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-46	AS-1-40'	Total/NA	Solid	8260B	
440-21469-47	AS-1-45'	Total/NA	Solid	8260B	
440-21484-A-6 MS	Matrix Spike	Total/NA	Solid	8260B	
440-21484-A-6 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-48823/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-48823/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 48824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-46	AS-1-40'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-47	AS-1-45'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21484-A-6 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-21484-A-6 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-48824/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-48824/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

### Analysis Batch: 48825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-31	P-2-10'	Total/NA	Solid	8260B	
440-21469-32	P-2-15'	Total/NA	Solid	8260B	
440-21469-33	P-2-20'	Total/NA	Solid	8260B	
440-21469-34	P-2-25'	Total/NA	Solid	8260B	
440-21469-34 MS	P-2-25'	Total/NA	Solid	8260B	
440-21469-34 MSD	P-2-25'	Total/NA	Solid	8260B	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## GC/MS VOA (Continued)

### Analysis Batch: 48825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-35	P-2-30'	Total/NA	Solid	8260B	
440-21469-36	P-2-35'	Total/NA	Solid	8260B	
440-21469-37	P-2-40'	Total/NA	Solid	8260B	
440-21469-38	AS-1-5'	Total/NA	Solid	8260B	
440-21469-39	AS-1-10'	Total/NA	Solid	8260B	
440-21469-41	AS-1-20'	Total/NA	Solid	8260B	
440-21469-42	AS-1-25'	Total/NA	Solid	8260B	
440-21469-43	AS-1-30'	Total/NA	Solid	8260B	
440-21469-44	AS-1-33'	Total/NA	Solid	8260B	
440-21469-45	AS-1-35'	Total/NA	Solid	8260B	
LCS 440-48825/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-48825/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 48826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-31	P-2-10'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-32	P-2-15'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-33	P-2-20'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-34	P-2-25'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-34 MS	P-2-25'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-34 MSD	P-2-25'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-35	P-2-30'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-36	P-2-35'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-37	P-2-40'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-38	AS-1-5'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-39	AS-1-10'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-41	AS-1-20'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-42	AS-1-25'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-43	AS-1-30'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-44	AS-1-33'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-45	AS-1-35'	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-48826/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-48826/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

### Analysis Batch: 49063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-13	EW-2-35'	Total/NA	Solid	8260B	49098
LCS 440-49063/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-49063/6	Lab Control Sample Dup	Total/NA	Solid	8260B	



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## GC/MS VOA (Continued)

### Analysis Batch: 49063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-49063/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 49064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-13	EW-2-35'	Total/NA	Solid	8260B/CA_LUFT MS	49098
LCS 440-49064/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-49064/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-49064/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

### Prep Batch: 49098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-13	EW-2-35'	Total/NA	Solid	5030B	

### Analysis Batch: 49118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-40	AS-1-15'	Total/NA	Solid	8260B	
440-21896-A-3 MS	Matrix Spike	Total/NA	Solid	8260B	
440-21896-A-3 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-49118/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-49118/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 49119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-40	AS-1-15'	Total/NA	Solid	8260B/CA_LUFT MS	
440-21896-A-3 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-21896-A-3 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-49119/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-49119/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-12
USDA	Federal		P330-09-00080	06-06-14

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:** Peter Schaefer 240523

**INCIDENT # (ENV SERVICES):** \_\_\_\_\_

**PO #:** \_\_\_\_\_ **SAP #:** \_\_\_\_\_

CHECK IF NO INCIDENT # APPLIES

DATE: 8/21/12

PAGE: 1 of 2

**SAMPLING COMPANY:** Conestoga-Rovers & Associates

**LOG CODE:** CRAW

**ADDRESS:** 5900 Hollis Street, Suite A, Emeryville, CA 94608

**PROJECT CONTACT (Hardcopy or PDF Report to):** Peter Schaefer

TELEPHONE: 510-420-3319 FAX: 510-420-9170 E-MAIL: pschaefer@croworld.com

**TURNAROUND TIME (CALENDAR DAYS):**  STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES:** Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

**SITE ADDRESS: Street and City:** 4212 First Street, Pleasanton **State:** Ca **GLOBAL ID NO.:** T0600101259

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville **PHONE NO.:** 510-420-3343 **E-MAIL:** shelledf@croworld.com **CONSULTANT PROJECT NO.:** 240523-95-12.05

**SAMPLER NAME(S) (Print):** Cristina Arganbright **LAB USE ONLY:** 440-51469

**REQUESTED ANALYSIS**

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHlg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT 20 4.1 °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																	
	P-1-21.5	8/21/12	10:00	So					X				X	X	X											
	SVE-S-5.5	8/21/12	10:11	So					X				X	X	X											
	SVE-S-10	8/21/12	10:16	So					X				X	X	X											
	SVE-S-15	8/21/12	10:25	So					X				X	X	X											
	SVE-S-20	8/21/12	10:26	So					X				X	X	X											
	SVE-S-25	8/21/12	10:30	So					X				X	X	X											
	SVE-S-30	8/21/12	10:39	So					X				X	X	X											
	SVE-S-35	8/21/12	10:46	So					X				X	X	X											
	SVE-S-40	8/21/12	10:53	So					X				X	X	X											

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> OFFICE Emeryville	Date: 8/21/12	Time: 16:00
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) <i>[Signature]</i> 8-23-12 16:00	Received by: (Signature) <i>[Signature]</i>	Date: 8/24/12	Time: 9:25

05/2/06 Revision

9/5/2012





LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:			Print Bill To Contact Name:			INCIDENT # (ENV SERVICES):			<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES		
<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL	Peter Schaefer 240523						DATE: 8/21/12		
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES	PO #			SAP #			PAGE: 2 of 2		
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER										

SAMPLING COMPANY:		LOG CODE:	SITE ADDRESS: Street and City		State	GLOBAL ID NO.:	
Conestoga-Rovers & Associates		CRAW	4212 First Street, Pleasanton		Ca	T0600101259	
ADDRESS:			EDF DELIVERABLE TO (Name, Company, Office Location):		PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
5900 Hollis Street, Suite A, Emeryville, CA 94608			Brenda Carter, CRA, Emeryville		510-420-3343	shelledf@croworld.com	240523-95-12.05

PROJECT CONTACT (Hardcopy or PDF Report to):			SAMPLER NAME(S) (Print):			LAB USE ONLY		
Peter Schaefer			Cristina Arganbright			440-2-1169		
TELEPHONE:	FAX:	E-MAIL:						
510-420-3319	510-420-9170	pschaefer@croworld.com						

TURNAROUND TIME (CALENDAR DAYS):				RESULTS NEEDED ON WEEKEND			
<input checked="" type="checkbox"/> STANDARD (14 DAY)	<input type="checkbox"/> 5 DAYS	<input type="checkbox"/> 3 DAYS	<input type="checkbox"/> 2 DAYS	<input type="checkbox"/> 24 HOURS	<input type="checkbox"/>		

<input type="checkbox"/> LA - RWQCB REPORT FORMAT		<input type="checkbox"/> UST AGENCY:		REQUESTED ANALYSIS								TEMPERATURE ON RECEIPT	
SPECIAL INSTRUCTIONS OR NOTES :				<input checked="" type="checkbox"/> SHELL CONTRACT RATE APPLIES <input type="checkbox"/> STATE REIMBURSEMENT RATE APPLIES <input type="checkbox"/> EDD NOT NEEDED <input checked="" type="checkbox"/> RECEIPT VERIFICATION REQUESTED								4.5	
Copy of final report to Shell.Lab.Billing@croworld.com												Container PID Readings or Laboratory Notes	

LAB USE ONLY	SAMPLING			PRESERVATIVE					NO. OF CONT.	TPH -ORO, Purgeable (8260B)	TPH -ORO, Extractable (8015M)	TPHlg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)
	Field Sample Identification			HCL	HNO3	H2SO4	NONE	OTHER															
	DATE	TIME	MATRIX																				
	8/20/12	11:30	SO				X		1	X		X	X	X									
	8/20/12	11:37	SO				X		1	X		X	X	X									
	8/20/12	11:42	SO				X		1	X		X	X	X									
	8/20/12	11:49	SO				X		1	X		X	X	X									
	8/20/12	11:56	SO				X		1	X		X	X	X									
	8/21/12	07:38	SO				X		1	X		X	X	X									
	8/21/12	07:48	SO				X		1	X		X	X	X									
	8/21/12	07:55	SO				X		1	X		X	X	X									
	8/21/12	08:06	SO				X		1	X		X	X	X									
	8/21/12	08:11	SO				X		1	X		X	X	X									

Relinquished by (Signature):	Received by (Signature):	Date: 8/21/12	Time: 11:00
Relinquished by (Signature):	Received by (Signature):	Date: 8-23-12	Time: 11:00
Relinquished by (Signature):	Received by (Signature):	Date: 8/24/12	Time: 9:25

05/2006 Revision

9/5/2012

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES):  CHECK IF NO INCIDENT # APPLIES

DATE: **8/24/12**

PO #: \_\_\_\_\_ SAP #: \_\_\_\_\_

PAGE: **3** of **9**

SAMPLING COMPANY: **Conestoga-Rovers & Associates** LOG CODE: **CRAW**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608**

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer**

TELEPHONE: **510-420-3319** FAX: **510-420-9170** E-MAIL: **pschaefer@craworld.com**

TURNAROUND TIME (CALENDAR DAYS):  STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:   
 Copy of final report to Shell.Lab.Billing@craworld.com

SHELL CONTRACT RATE APPLIES   
  STATE REIMBURSEMENT RATE APPLIES   
  EDD NOT NEEDED   
  RECEIPT VERIFICATION REQUESTED

SITE ADDRESS: Street and City: **4212 First Street, Pleasanton** State: **Ca** GLOBAL ID NO.: **T0600101259**

EDF DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO.: **510-420-3343** E-MAIL: **shelledf@craworld.com** CONSULTANT PROJECT NO.: **240523-95-12.05**

SAMPLER NAME(S) (Print): **Cristina Arganbright** LAB USE ONLY: **490-21464**

REQUESTED ANALYSIS

TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAMIE, ETBE) 8260B	FULL VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C° <b>4.1</b>
-----------------------------	-------------------------------	--------------	---------------	--------------	--------------	---------------------------	--	-----------------------	--------------------------	-----------------	-------------	-----------------	------------------	--

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS													Container PID Readings or Laboratory Notes			
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAMIE, ETBE) 8260B	FULL VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)		Methanol (8015M)		
	EW-1-5.5'	8/20	0830	So				X		1	X			X	X	X											
	EW-1-10'	8/20	0846	So				X		1	X			X	X	X											
	EW-1-12.5'	8/20	0852	So				X		1	X			X	X	X											
	EW-1-15.5'	8/20	0857	So				X		1	X			X	X	X											
	EW-1-17.5'	8/20	0903	So				X		1	X			X	X	X											
	EW-1-20.5'	8/20	0911	So				X		1	X			X	X	X											
	EW-1-22.5'	8/20	0915	So				X		1	X			X	X	X											
	EW-2-5.5'	8/20	116	So				X		1	X			X	X	X											
	EW-2-10'	8/20	1125	So				X		1	X			X	X	X											
	EW-2-15'	8/20	1126	So				X		1	X			X	X	X											

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Emeryville office</i>	Date: <b>8/24/12</b>	Time: <b>1600</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Geoff Taylor</i>	Date: <b>8-23-12</b>	Time: <b>11:00</b>
Relinquished by: (Signature) <i>Geoff Taylor</i>	Received by: (Signature) <i>V. Bank</i>	Date: <b>8/24/12</b>	Time: <b>9:25</b>

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

<b>Please Check Appropriate Box:</b> <input type="checkbox"/> ENV. SERVICES <input type="checkbox"/> MOTIVA RETAIL <input type="checkbox"/> SHELL RETAIL <input type="checkbox"/> MOTIVA SD&CM <input checked="" type="checkbox"/> CONSULTANT <input type="checkbox"/> LUBES <input type="checkbox"/> SHELL PIPELINE <input type="checkbox"/> OTHER			<b>Print Bill To Contact Name:</b> Peter Schaefer 240523	<b>INCIDENT # (ENV SERVICES):</b> <input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES
<b>PO #</b>		<b>SAP #</b>		

DATE: 8/22/12  
PAGE: 4 of 9

<b>SAMPLING COMPANY:</b> Conestoga-Rovers & Associates ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608 PROJECT CONTACT (Hardcopy or PDF Report to): <b>Peter Schaefer</b> TELEPHONE: 510-420-3319    FAX: 510-420-9170    E-MAIL: pschaefer@croworld.com	LOG CODE: CRAW	SITE ADDRESS: Street and City 4212 First Street, Pleasanton EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville PHONE NO.: 510-420-3343 SAMPLER NAME(S) (Print): Cristina Arganbright	State Ca	GLOBAL ID NO.: T0600101259	CONSULTANT PROJECT NO.: 240523-95-12.05
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TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - GRO. Purgeable (8260B)	TPH - DRO. Extractable (8015M)	TPHig (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																	
	P-2-5.5'	8/22/12	0823	SO				X		1	X		X	X	X										23 4.1	
	P-2-10'	8/22/12	0826	SO				X		1	X		X	X	X											
	P-2-15'	8/22/12	0831	SO				X		1	X		X	X	X											
	P-2-20'	8/22/12	0837	SO				X		1	X		X	X	X											
	P-2-25'	8/22/12	0844	SO				X		1	X		X	X	X											
	P-2-30'	8/22/12	0851	SO				X		1	X		X	X	X											
	P-2-35'	8/22/12	0900	SO				X		1	X		X	X	X											
	P-2-40'	8/22/12	0908	SO				X		1	X		X	X	X											
	AS-1-5'	8/22/12	1103	SO				X		1	X		X	X	X											
	AS-1-10'	8/22/12	1104	SO				X		1	X		X	X	X											

Relinquished by: (Signature) 	Received by: (Signature) Emeryville office 	Date: 8/22/12	Time: 11:00
Relinquished by: (Signature) 	Received by: (Signature) 	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) 	Received by: (Signature) 	Date: 8/24/12	Time: 9:25

9/5/2012

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name:  
Peter Schaefer 240523

PO # \_\_\_\_\_

INCIDENT # (ENV SERVICES) \_\_\_\_\_

DATE: 8/22/12

PAGE: 5 of 9

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

ADDRESS: 5900 Hill St, Suite A, Emeryville CA 94608

TELEPHONE: 510-420-3319 FAX: 510-420-9170 EMAIL: PSchaefer@croworld.com

SITE ADDRESS: Street and City: 4212 First St, Pleasanton CA

STATE: CA GLOBAL ID NO.: T0600101251

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CEM, Em. PHONE NO.: 510-420-3843 EMAIL: shelleef@croworld.com

CONSULTANT PROJECT NO.: 240523-95-12.05

SAMPLER NAME(S) (PID/ID): \_\_\_\_\_

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT

CS 4.1

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8016M)	TPH (8016M)	MTBE (8260B)	BTEX (8260B)	BTEX + MTBE (8260B)	TBA 8260B	BTEX + 6 OXYs (M1, M2, 1, 2, 4, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016M)	Container PID Readings or Laboratory Notes	
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																	
	AS-1-15'	8/22	1105	SO					X	1	X		X	X	X	X										
	AS-1-20'	8/22	1108	SO					X	1	X		X	X	X	X										
	AS-1-25'	8/22	1111	SO					X	1	X		X	X	X	X										
	AS-1-30'	8/22	1116	SO					X	1	X		X	X	X	X										
	AS-1-33'	8/22	1137	SO					X	1	X		X	X	X	X										
	AS-1-35'	8/22	1123	SO					X	1	X		X	X	X	X										
	AS-1-40'	8/22	1151	SO					X	1	X		X	X	X	X										
	AS-1-45'	8/22	1200	SO					X	1	X		X	X	X	X										

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	Emeryville Office	8/22/12	11:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	8-23-12	11:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	8/23-12	16:00
	<i>[Signature]</i>	8/24/12	9:25

06/2/09 Revision

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9/5/2012



Disposal

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES):

DATE: 8/21/12

PAGE: 4 of 59

SAMPLING COMPANY: **Conestoga-Rovers & Associates** LOG CODE: **CRAW** SITE ADDRESS: Street and City: **4212 First Street, Pleasanton** State: **CA** GLOBAL ID NO.: **T0600101259**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608** EDI DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO.: **510-420-3343** E-MAIL: **shelledf@croworld.com** CONSULTANT PROJECT NO.: **240523-95-12.05**

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer** SAMPLER NAME(S) (Print): **Cristina Arganbright** LAB USE ONLY: **UCC-21460**

TELEPHONE: **510-420-3379** FAX: **510-420-9170** E-MAIL: **pschaefer@croworld.com**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-A

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAME17 Metals - Total (8010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																				C°
CRA-2A	8/20/12	0820	SO				X		1	X	X	X											X	X				69 4.1
CRA-3A	8/20/12	1023	SO				X		1	X	X	X											X	X				
CRA-4A	8/20/12	1030	SO				X		1	X	X	X											X	X				
CRA-5A	8/20/12	0727	SO				X		1	X	X	X											X	X				
CRA-6B	8/20/12	0755	So				X		1	X	X	X											X	X				
CRA-7B	8/20/12	1030	So				X		1	X	X	X											X	X				
CRA-8B	8/20/12	1136	So				X		1	X	X	X											X	X				
CRA-9B	8/20/12	1216	So				X		1	X	X	X											X	X				
CRA-10C	8/20/12	1323	So				X		1	X	X	X											X	X				
CRA-11C	8/20/12	1350	So				X		1	X	X	X											X	X				

LAB USE ONLY:

Field Sample Identification

DATE

TIME

MATRIX

HCL

HNO3

H2SO4

NONE

OTHER

NO. OF CONT.

TPH - Purgeable (8260B)

TPH - Extractable (8015M)

BTEX (8260B)

5 Oxygenates (8260B)

MTBE (8260B)

TBA (8260B)

DIPE (8260B)

TAME (8260B)

ETBE (8260B)

1,2 DCA (8260B)

EDB (8260B)

Ethanol (8260B)

Methanol (8015M)

TPH - MO (8015M)

CAME17 Metals - Total (8010)

SVOCs (8270C)

VOCs (8260)

PCBs (8082)

TEMPERATURE ON RECEIPT C°

Container PID Readings or Laboratory Notes

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Emeryville office</i>	Date: 8/24/12	Time: 1600
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Geralt Taylor</i>	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) <i>Geralt Taylor</i>	Received by: (Signature) <i>VuB...</i>	Date: 8/24/12	Time: 9:25

05/2/06 Revision

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9/5/2012



Disposal

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: Peter Schaefer 240523

INCIDENT # (ENV SERVICES):

DATE: 8/21/12

PAGE: 87 of 89

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 4212 First Street, Pleasanton

State: CA

GLOBAL ID NO.: T0600101259

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shelledf@croworld.com

CONSULTANT PROJECT NO.: 240523-95-12.05

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3379

FAX: 510-420-9170

E-MAIL: pschaefer@croworld.com

SAMPLER NAME(S) (Print): Cristina Arganbright

LAB USE ONLY: 1140-21469

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-A

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE						NO. OF CONT.	REQUESTED ANALYSIS														TEMPERATURE ON RECEIPT C 4.1	Container PID Readings or Laboratory Notes					
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	TPH - Purgeable (8260B)		TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)			SVOcs (8270C)	VOCs (8260)	PCBs (8082)		
		CRA-12C	8/20/12		13:45	SO				X			1	X	X	X													X	X		
CRA-13C	8/21/12	08:28	SO				X		1	X	X	X											X	X								composite
CRA-14D	8/21/12	02:23	SO				X		1	X	X	X											X	X								sample
CRA-15D	8/21/12	10:29	SO				X		1	X	X	X											X	X								CRA-A
CRA-16D	8/21/12	10:48	SO				X		1	X	X	X											X	X								
CRA-17D	8/21/12	11:05	SO				X		1	X	X	X											X	X								
CRA-18E	8/21/12	12:00	SO				X		1	X	X	X											X	X								
CRA-19E	8/21/12	12:57	SO				X		1	X	X	X											X	X								

Relinquished by: (Signature)	Received by: (Signature)	Date: 8/21/12	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature)	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature)	Received by: (Signature)	Date: 8/24/12	Time: 9:25

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9/5/2012

05/2006 Revision



Disposal

LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: Peter Schaefer 240523

INCIDENT # (ENV SERVICES):

DATE: 8/22/12

PAGE: 8 of 9

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 4212 First Street, Pleasanton

State: CA

GLOBAL ID NO.: T0600101259

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shellcedf@croworld.com

CONSULTANT PROJECT NO.: 240523-95-12.05

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3379

FAX: 510-420-9170

E-MAIL: pschaefer@croworld.com

SAMPLER NAME(S) (Print): Cristina Arganbright

LAB USE ONLY: 440-21464

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-A

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT
																		C°
																		(C9) 4.1
																		Container PID Readings or Laboratory Notes
																		Please call
																		composite
																		sample
																		CRA-A

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
CRA-20E	8/12	8:41	SO					X	1
CRA-21E	8/12	8:48	SO					X	1
CRA-22F	8/12	9:10	SO					X	1
CRA-23F	8/22	11:48	SO					X	1
CRA-24F	8/22	11:50	SO					X	1
CRA-25F	8/22	13:22	SO					X	1

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Emeryville office</i>	Date: 8/22/12	Time: 11:00
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Deval Taylor</i>	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) <i>Deval Taylor</i>	Received by: (Signature) <i>[Signature]</i>	Date: 8/24/12	Time: 9:25

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9/5/2012

05/2/06 Revision



5/16  
01/9

### California Contingent Analyses - Metals

Metal	Trigger level TTLC (mg/kg)	Requirement (based on CCR 66261.24) [Both Solids and Liquids]
Antimony	150	STLC required if TTLC $\geq$ 150 mg/kg
Arsenic	50/100	STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC $\geq$ 1,000 mg/kg; TCLP required if TTLC $\geq$ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC $\geq$ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC $\geq$ 10 mg/kg; TCLP required if TTLC $\geq$ 20 mg/kg
Chromium	50/100	STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Cobalt	800	STLC required if TTLC $\geq$ 800 mg/kg
Copper	250	STLC required if TTLC $\geq$ 250 mg/kg
Lead	13/50/100	Organic lead required if TTLC lead $\geq$ 13 mg/kg STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Mercury	2/4	STLC required if TTLC $\geq$ 2 mg/kg; TCLP required if TTLC $\geq$ 4 mg/kg
Molybdenum	3,500	STLC required if TTLC $\geq$ 350 mg/kg
Nickel	200	STLC required if TTLC $\geq$ 200 mg/kg
Selenium	10/20	STLC required if TTLC $\geq$ 10 mg/kg; TCLP required if TTLC $\geq$ 20 mg/kg
Silver	50/100	STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Thallium	70	STLC required if TTLC $\geq$ 70 mg/kg
Vanadium	240	STLC required if TTLC $\geq$ 240 mg/kg
Zinc	2,500	STLC required if TTLC $\geq$ 2,500 mg/kg

### California Contingent Analyses - Organics

Organic Constituents	Trigger level TTLC (mg/kg)	Requirement (based on CCR 66261.24) [Both Solids and Liquids]
Pentachlorophenol	1.7	STLC required if TTLC $\geq$ 1.7
Trichloroethylene	10/204	STLC required if TTLC $\geq$ 10 mg/kg; TCLP required if TTLC $\geq$ 204 mg/kg

Organic Constituents	(mg/kg)	Requirements based on TSDF permits [ONLY for Solids if they meet the below criteria]
TPHd	20,000	Requires fish bioassay (Acute Aquatic 96 hr LC 50)
TPHg	5,900	Requires fish bioassay (Acute Aquatic 96 hr LC 50)
TPHmo	10,000	Requires fish bioassay (Acute Aquatic 96 hr LC 50)
TRPH (tot rec pet hc)	5,000	Requires fish bioassay (Acute Aquatic 96 hr LC 50)



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-21469-1

**Login Number: 21469**

**List Number: 1**

**Creator: Perez, Angel**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	Cristina Arganbright
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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 Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-21469-2

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/19/2012 1:17:53 PM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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.*

1

2

3

4

5

6

7

8

9

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11

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-21469-72	CRA-A	Solid	08/20/12 10:30	08/24/12 09:25
440-21469-73	CRA-B	Solid	08/20/12 12:16	08/24/12 09:25
440-21469-74	CRA-C	Solid	08/20/12 13:45	08/24/12 09:25
440-21469-75	CRA-D	Solid	08/21/12 11:25	08/24/12 09:25
440-21469-76	CRA-E	Solid	08/22/12 08:48	08/24/12 09:25
440-21469-77	CRA-F	Solid	08/22/12 13:22	08/24/12 09:25

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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## Job ID: 440-21469-2

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Laboratory: TestAmerica Irvine

### Narrative

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#### Job Narrative 440-21469-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/24/2012 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 9 coolers at receipt time were 2.7° C, 2.8° C, 2.9° C, 3.1° C, 3.4° C, 3.4° C, 3.5° C, 3.8° C and 4.0° C.

#### GC/MS VOA

No analytical or quality issues were noted.

#### GC Semi VOA

No analytical or quality issues were noted.

#### Metals

Method(s) 6010B: Matrix spikes for batch 48876 could not be recovered due to sample matrix interferences which required sample dilution. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 939-M: The following sample(s) was analyzed outside of analytical holding time with client approval: (440-21469-73 MS), (440-21469-73 MSD), CRA-B (440-21469-73).

Method(s) 939-M: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 440-21469 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### Organic Prep

Method(s) CA LUFT: Due to the matrix, the following sample(s) could not be concentrated to the final method required volume: CRA-B (440-21469-73). The reporting limits (RLs) are elevated proportionately.

No other analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

**Client Sample ID: CRA-A**

**Lab Sample ID: 440-21469-72**

**Date Collected: 08/20/12 10:30**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 14:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	107		80 - 125					08/30/12 14:34	1
4-Bromofluorobenzene (Surr)	88		80 - 120					08/30/12 14:34	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 14:34	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 14:34	1
Toluene	ND		0.0010		mg/Kg			08/30/12 14:34	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 14:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	88		80 - 120					08/30/12 14:34	1
Dibromofluoromethane (Surr)	107		80 - 125					08/30/12 14:34	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 14:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (C10-C28)</b>	<b>49</b>		5.0		mg/Kg		08/30/12 10:24	08/30/12 19:59	1
<b>ORO (C29-C40)</b>	<b>100</b>		5.0		mg/Kg		08/30/12 10:24	08/30/12 19:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane	86		40 - 140				08/30/12 10:24	08/30/12 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Arsenic</b>	<b>2.2</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Barium</b>	<b>100</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
Beryllium	ND		0.49		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
Cadmium	ND		0.49		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Chromium</b>	<b>49</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Cobalt</b>	<b>7.4</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Copper</b>	<b>16</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Lead</b>	<b>7.4</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Nickel</b>	<b>36</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 19:58	5
Thallium	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Vanadium</b>	<b>28</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
<b>Zinc</b>	<b>33</b>		4.9		mg/Kg		08/30/12 08:30	08/31/12 20:44	5
Silver	ND		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:44	5

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.051</b>		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:42	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

**Client Sample ID: CRA-B**

**Lab Sample ID: 440-21469-73**

**Date Collected: 08/20/12 12:16**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 15:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	101		80 - 125					08/30/12 15:02	1
4-Bromofluorobenzene (Surr)	90		80 - 120					08/30/12 15:02	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 15:02	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 15:02	1
Toluene	ND		0.0010		mg/Kg			08/30/12 15:02	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 15:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	90		80 - 120					08/30/12 15:02	1
Dibromofluoromethane (Surr)	101		80 - 125					08/30/12 15:02	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (C10-C28)</b>	<b>82</b>		10		mg/Kg		08/30/12 10:24	08/30/12 20:46	1
<b>ORO (C29-C40)</b>	<b>180</b>		10		mg/Kg		08/30/12 10:24	08/30/12 20:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane	80		40 - 140				08/30/12 10:24	08/30/12 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Arsenic</b>	<b>3.8</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Barium</b>	<b>110</b>		1.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
Beryllium	ND		0.51		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
Cadmium	ND		0.51		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Chromium</b>	<b>56</b>		1.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Cobalt</b>	<b>7.9</b>		1.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Copper</b>	<b>17</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Lead</b>	<b>13</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Nickel</b>	<b>38</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 20:00	5
Thallium	ND		10		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Vanadium</b>	<b>31</b>		1.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Zinc</b>	<b>36</b>		5.1		mg/Kg		08/30/12 08:30	08/31/12 20:46	5
<b>Silver</b>	<b>1.2</b>		1.0		mg/Kg		08/30/12 08:30	08/31/12 20:46	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.34</b>		0.10		mg/L			09/07/12 15:41	20

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.064</b>		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:44	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Client Sample ID: CRA-B

Lab Sample ID: 440-21469-73

Date Collected: 08/20/12 12:16

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 939-M - Organic Lead (GFAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Organo-Lead	ND	H	0.025		mg/Kg		09/06/12 01:20	09/18/12 18:06	1

## Client Sample ID: CRA-C

Lab Sample ID: 440-21469-74

Date Collected: 08/20/12 13:45

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 125		08/30/12 15:30	1
4-Bromofluorobenzene (Surr)	87		80 - 120		08/30/12 15:30	1
Toluene-d8 (Surr)	89		80 - 120		08/30/12 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 15:30	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 15:30	1
Toluene	ND		0.0010		mg/Kg			08/30/12 15:30	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		80 - 120		08/30/12 15:30	1
Dibromofluoromethane (Surr)	103		80 - 125		08/30/12 15:30	1
Toluene-d8 (Surr)	89		80 - 120		08/30/12 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	50		5.0		mg/Kg		08/30/12 10:24	08/30/12 21:32	1
ORO (C29-C40)	110		5.0		mg/Kg		08/30/12 10:24	08/30/12 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
n-Octacosane	79		40 - 140		08/30/12 10:24	08/30/12 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Arsenic	3.4		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Barium	160		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Beryllium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Cadmium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Chromium	93		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Cobalt	8.6		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Copper	21		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Lead	11		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Nickel	59		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 20:02	5
Thallium	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Vanadium	30		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Zinc	36		5.0		mg/Kg		08/30/12 08:30	08/31/12 20:48	5
Silver	1.2		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:48	5



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Client Sample ID: CRA-C

Lab Sample ID: 440-21469-74

Date Collected: 08/20/12 13:45

Matrix: Solid

Date Received: 08/24/12 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.40		0.10		mg/L			09/07/12 15:43	20

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:47	1

## Client Sample ID: CRA-D

Lab Sample ID: 440-21469-75

Date Collected: 08/21/12 11:25

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 125		08/30/12 15:57	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/12 15:57	1
Toluene-d8 (Surr)	95		80 - 120		08/30/12 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 15:57	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 15:57	1
Toluene	ND		0.0010		mg/Kg			08/30/12 15:57	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/12 15:57	1
Dibromofluoromethane (Surr)	105		80 - 125		08/30/12 15:57	1
Toluene-d8 (Surr)	95		80 - 120		08/30/12 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		5.0		mg/Kg		08/30/12 10:24	08/30/12 22:19	1
ORO (C29-C40)	6.0		5.0		mg/Kg		08/30/12 10:24	08/30/12 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	80		40 - 140		08/30/12 10:24	08/30/12 22:19

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Arsenic	4.3		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Barium	130		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Beryllium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Cadmium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Chromium	87		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Cobalt	9.3		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Copper	23		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Lead	7.5		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Nickel	57		2.0		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 20:04	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Client Sample ID: CRA-D

Lab Sample ID: 440-21469-75

Date Collected: 08/21/12 11:25

Matrix: Solid

Date Received: 08/24/12 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
<b>Vanadium</b>	<b>33</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
<b>Zinc</b>	<b>43</b>		5.0		mg/Kg		08/30/12 08:30	08/31/12 20:50	5
<b>Silver</b>	<b>1.4</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 20:50	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.31</b>		0.10		mg/L			09/07/12 16:05	20

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.045</b>		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:49	1

## Client Sample ID: CRA-E

Lab Sample ID: 440-21469-76

Date Collected: 08/22/12 08:48

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 16:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	103		80 - 125					08/30/12 16:25	1
4-Bromofluorobenzene (Surr)	89		80 - 120					08/30/12 16:25	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 16:25	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 16:25	1
Toluene	ND		0.0010		mg/Kg			08/30/12 16:25	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 16:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		80 - 120					08/30/12 16:25	1
Dibromofluoromethane (Surr)	103		80 - 125					08/30/12 16:25	1
Toluene-d8 (Surr)	93		80 - 120					08/30/12 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>DRO (C10-C28)</b>	<b>9.9</b>		5.0		mg/Kg		08/30/12 10:24	08/30/12 16:51	1
<b>ORO (C29-C40)</b>	<b>18</b>		5.0		mg/Kg		08/30/12 10:24	08/30/12 16:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane	77		40 - 140				08/30/12 10:24	08/30/12 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
<b>Arsenic</b>	<b>4.4</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
<b>Barium</b>	<b>130</b>		1.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Beryllium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Cadmium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 21:01	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Client Sample ID: CRA-E

Lab Sample ID: 440-21469-76

Date Collected: 08/22/12 08:48

Matrix: Solid

Date Received: 08/24/12 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	85		1.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Cobalt	8.2		1.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Copper	24		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Lead	7.7		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Nickel	53		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 20:06	5
Thallium	ND		10		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Vanadium	33		1.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Zinc	42		5.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5
Silver	1.4		1.0		mg/Kg		08/30/12 08:30	08/31/12 21:01	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.33		0.10		mg/L			09/07/12 16:07	20

### Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:57	1

## Client Sample ID: CRA-F

Lab Sample ID: 440-21469-77

Date Collected: 08/22/12 13:22

Matrix: Solid

Date Received: 08/24/12 09:25

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	0.21		0.099		mg/Kg			08/30/12 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 125		08/30/12 16:53	1
4-Bromofluorobenzene (Surr)	90		80 - 120		08/30/12 16:53	1
Toluene-d8 (Surr)	95		80 - 120		08/30/12 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00099		mg/Kg			08/30/12 16:53	1
Ethylbenzene	ND		0.00099		mg/Kg			08/30/12 16:53	1
Toluene	ND		0.00099		mg/Kg			08/30/12 16:53	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		08/30/12 16:53	1
Dibromofluoromethane (Surr)	102		80 - 125		08/30/12 16:53	1
Toluene-d8 (Surr)	95		80 - 120		08/30/12 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	29		5.0		mg/Kg		08/30/12 10:24	08/30/12 17:14	1
ORO (C29-C40)	55		5.0		mg/Kg		08/30/12 10:24	08/30/12 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	76		40 - 140		08/30/12 10:24	08/30/12 17:14

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

**Client Sample ID: CRA-F**

**Lab Sample ID: 440-21469-77**

Date Collected: 08/22/12 13:22

Matrix: Solid

Date Received: 08/24/12 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Arsenic</b>	<b>3.6</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Barium</b>	<b>130</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
Beryllium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
Cadmium	ND		0.50		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Chromium</b>	<b>140</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Cobalt</b>	<b>9.5</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Copper</b>	<b>25</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Lead</b>	<b>6.6</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Nickel</b>	<b>60</b>		2.0		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 20:08	5
Thallium	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Vanadium</b>	<b>33</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Zinc</b>	<b>36</b>		5.0		mg/Kg		08/30/12 08:30	08/31/12 21:03	5
<b>Silver</b>	<b>1.5</b>		0.99		mg/Kg		08/30/12 08:30	08/31/12 21:03	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		09/05/12 23:42	09/06/12 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.44</b>		0.10		mg/L			09/07/12 16:09	20

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.041</b>		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:59	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Client Sample ID: CRA-A

Date Collected: 08/20/12 10:30

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-72

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	8260B		1	5.02 g	10 mL	48823	08/30/12 14:34	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48824	08/30/12 14:34	CP	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	48913	08/30/12 10:24	TM	TAL IRV
Total/NA	Analysis	8015B		1			49091	08/30/12 19:59	RR	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	48610	08/29/12 13:10	SN	TAL IRV
Total/NA	Analysis	7471A		1			49082	08/30/12 16:42	DB	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	48876	08/30/12 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5			49426	08/31/12 20:44	TK	TAL IRV
Total/NA	Analysis	6010B		5			49715	09/04/12 19:58	TK	TAL IRV

## Client Sample ID: CRA-B

Date Collected: 08/20/12 12:16

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-73

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	8260B		1	5 g	10 mL	48823	08/30/12 15:02	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 g	10 mL	48824	08/30/12 15:02	CP	TAL IRV
Total/NA	Prep	CA LUFT			30.06 g	2 mL	48913	08/30/12 10:24	TM	TAL IRV
Total/NA	Analysis	8015B		1			49091	08/30/12 20:46	RR	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	48610	08/29/12 13:10	SN	TAL IRV
Total/NA	Analysis	7471A		1			49082	08/30/12 16:44	DB	TAL IRV
Total/NA	Prep	3050B			1.97 g	50 mL	48876	08/30/12 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5			49426	08/31/12 20:46	TK	TAL IRV
Total/NA	Analysis	6010B		5			49715	09/04/12 20:00	TK	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.07 g	500 mL	49737	09/04/12 23:39	CH	TAL IRV
STLC Citrate	Analysis	6010B		20	1.0 mL	1.0 mL	50616	09/07/12 15:41	TK	TAL IRV
Total/NA	Prep	939M			50.00 mL	100 mL	50044	09/06/12 01:20	CH	TAL IRV
Total/NA	Analysis	939-M		1			52951	09/18/12 18:06	DB	TAL IRV

## Client Sample ID: CRA-C

Date Collected: 08/20/12 13:45

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-74

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	8260B		1	5.01 g	10 mL	48823	08/30/12 15:30	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	48824	08/30/12 15:30	CP	TAL IRV
Total/NA	Prep	CA LUFT			30.01 g	1 mL	48913	08/30/12 10:24	TM	TAL IRV
Total/NA	Analysis	8015B		1			49091	08/30/12 21:32	RR	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	48610	08/29/12 13:10	SN	TAL IRV
Total/NA	Analysis	7471A		1			49082	08/30/12 16:47	DB	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	48876	08/30/12 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5			49426	08/31/12 20:48	TK	TAL IRV
Total/NA	Analysis	6010B		5			49715	09/04/12 20:02	TK	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Client Sample ID: CRA-C

Date Collected: 08/20/12 13:45

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-74

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.09 g	500 mL	49737	09/04/12 23:39	CH	TAL IRV
STLC Citrate	Analysis	6010B		20	1.0 mL	1.0 mL	50616	09/07/12 15:43	TK	TAL IRV

## Client Sample ID: CRA-D

Date Collected: 08/21/12 11:25

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-75

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	8260B		1	5.02 g	10 mL	48823	08/30/12 15:57	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.02 g	10 mL	48824	08/30/12 15:57	CP	TAL IRV
Total/NA	Prep	CA LUFT			30.00 g	1 mL	48913	08/30/12 10:24	TM	TAL IRV
Total/NA	Analysis	8015B		1			49091	08/30/12 22:19	RR	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	48610	08/29/12 13:10	SN	TAL IRV
Total/NA	Analysis	7471A		1			49082	08/30/12 16:49	DB	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	48876	08/30/12 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5			49426	08/31/12 20:50	TK	TAL IRV
Total/NA	Analysis	6010B		5			49715	09/04/12 20:04	TK	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	49737	09/04/12 23:39	CH	TAL IRV
STLC Citrate	Analysis	6010B		20	1.0 mL	1.0 mL	50616	09/07/12 16:05	TK	TAL IRV

## Client Sample ID: CRA-E

Date Collected: 08/22/12 08:48

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-76

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	8260B		1	5.01 g	10 mL	48823	08/30/12 16:25	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.01 g	10 mL	48824	08/30/12 16:25	CP	TAL IRV
Total/NA	Prep	CA LUFT			30.02 g	1 mL	48913	08/30/12 10:24	TM	TAL IRV
Total/NA	Analysis	8015B		1			49093	08/30/12 16:51	RR	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	48610	08/29/12 13:10	SN	TAL IRV
Total/NA	Analysis	7471A		1			49082	08/30/12 16:57	DB	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	48876	08/30/12 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5			49426	08/31/12 21:01	TK	TAL IRV
Total/NA	Analysis	6010B		5			49715	09/04/12 20:06	TK	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.09 g	500 mL	49737	09/04/12 23:39	CH	TAL IRV
STLC Citrate	Analysis	6010B		20	1.0 mL	1.0 mL	50616	09/07/12 16:07	TK	TAL IRV

## Client Sample ID: CRA-F

Date Collected: 08/22/12 13:22

Date Received: 08/24/12 09:25

## Lab Sample ID: 440-21469-77

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	8260B		1	5.05 g	10 mL	48823	08/30/12 16:53	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5.05 g	10 mL	48824	08/30/12 16:53	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

**Client Sample ID: CRA-F**

**Lab Sample ID: 440-21469-77**

**Date Collected: 08/22/12 13:22**

**Matrix: Solid**

**Date Received: 08/24/12 09:25**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	CA LUFT			30.04 g	1 mL	48913	08/30/12 10:24	TM	TAL IRV
Total/NA	Analysis	8015B		1			49093	08/30/12 17:14	RR	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	48610	08/29/12 13:10	SN	TAL IRV
Total/NA	Analysis	7471A		1			49082	08/30/12 16:59	DB	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	48876	08/30/12 08:30	DT	TAL IRV
Total/NA	Analysis	6010B		5			49426	08/31/12 21:03	TK	TAL IRV
Total/NA	Analysis	6010B		5			49715	09/04/12 20:08	TK	TAL IRV
TCLP	Leach	1311			100.07 g	2000 mL	49732	09/04/12 21:01	CH	TAL IRV
TCLP	Prep	3010A			5 mL	50 mL	50036	09/05/12 23:42	CH	TAL IRV
TCLP	Analysis	6010B		1			50249	09/06/12 15:03	TK	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.07 g	500 mL	49737	09/04/12 23:39	CH	TAL IRV
STLC Citrate	Analysis	6010B		20	1.0 mL	1.0 mL	50616	09/07/12 16:09	TK	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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

**Lab Sample ID: MB 440-48823/4**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010		mg/Kg			08/30/12 09:10	1
Ethylbenzene	ND		0.0010		mg/Kg			08/30/12 09:10	1
Toluene	ND		0.0010		mg/Kg			08/30/12 09:10	1
Xylenes, Total	ND		0.0020		mg/Kg			08/30/12 09:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/12 09:10	1
Dibromofluoromethane (Surr)	98		80 - 125		08/30/12 09:10	1
Toluene-d8 (Surr)	94		80 - 120		08/30/12 09:10	1

**Lab Sample ID: LCS 440-48823/5**

**Matrix: Solid**

**Analysis Batch: 48823**

**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	0.0449		mg/Kg		90	65 - 120
Ethylbenzene	0.0500	0.0476		mg/Kg		95	70 - 125
m,p-Xylene	0.100	0.0973		mg/Kg		97	70 - 125
o-Xylene	0.0500	0.0501		mg/Kg		100	70 - 125
Toluene	0.0500	0.0452		mg/Kg		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	99		80 - 125
Toluene-d8 (Surr)	93		80 - 120

**Lab Sample ID: 440-21484-A-6 MS**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0496	0.0475		mg/Kg		96	65 - 130
Ethylbenzene	ND		0.0496	0.0518		mg/Kg		104	70 - 135
m,p-Xylene	ND		0.0992	0.107		mg/Kg		108	70 - 130
o-Xylene	ND		0.0496	0.0540		mg/Kg		109	65 - 130
Toluene	ND		0.0496	0.0479		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	90		80 - 125
Toluene-d8 (Surr)	94		80 - 120

**Lab Sample ID: 440-21484-A-6 MSD**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0498	0.0477		mg/Kg		96	65 - 130	0	20
Ethylbenzene	ND		0.0498	0.0520		mg/Kg		104	70 - 135	0	25



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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

**Lab Sample ID: 440-21484-A-6 MSD**

**Matrix: Solid**

**Analysis Batch: 48823**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
m,p-Xylene	ND		0.0996	0.108		mg/Kg		108	70 - 130	1	25
o-Xylene	ND		0.0498	0.0538		mg/Kg		108	65 - 130	0	25
Toluene	ND		0.0498	0.0483		mg/Kg		97	70 - 130	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	90		80 - 120								
Dibromofluoromethane (Surr)	91		80 - 125								
Toluene-d8 (Surr)	94		80 - 120								

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-48824/4**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		0.10		mg/Kg			08/30/12 09:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>						
Dibromofluoromethane (Surr)	98		80 - 125						
4-Bromofluorobenzene (Surr)	91		80 - 120						
Toluene-d8 (Surr)	94		80 - 120						

**Lab Sample ID: LCS 440-48824/6**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Volatile Fuel Hydrocarbons (C4-C12)	1.00	0.940		mg/Kg		94	60 - 135
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane (Surr)	95		80 - 125				
4-Bromofluorobenzene (Surr)	95		80 - 120				
Toluene-d8 (Surr)	96		80 - 120				

**Lab Sample ID: 440-21484-A-6 MS**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.42	2.91		mg/Kg		85	55 - 140
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
Dibromofluoromethane (Surr)	90		80 - 125						
4-Bromofluorobenzene (Surr)	93		80 - 120						
Toluene-d8 (Surr)	94		80 - 120						

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 440-21484-A-6 MSD**

**Matrix: Solid**

**Analysis Batch: 48824**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		3.44	2.93		mg/Kg		85	55 - 140	0	25
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Dibromofluoromethane (Surr)	91		80 - 125								
4-Bromofluorobenzene (Surr)	90		80 - 120								
Toluene-d8 (Surr)	94		80 - 120								

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

**Lab Sample ID: MB 440-48913/1-A**

**Matrix: Solid**

**Analysis Batch: 49091**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 48913**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		5.0		mg/Kg		08/30/12 10:24	08/30/12 16:51	1
ORO (C29-C40)	ND		5.0		mg/Kg		08/30/12 10:24	08/30/12 16:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane	73		40 - 140				08/30/12 10:24	08/30/12 16:51	1

**Lab Sample ID: LCS 440-48913/2-A**

**Matrix: Solid**

**Analysis Batch: 49091**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 48913**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C28)	33.3	22.3		mg/Kg		67	45 - 115
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane	70		40 - 140				

**Lab Sample ID: 440-21026-E-1-A MS**

**Matrix: Solid**

**Analysis Batch: 49091**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 48913**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C28)	44		33.3	59.7		mg/Kg		46	40 - 120
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
n-Octacosane	68		40 - 140						

**Lab Sample ID: 440-21026-E-1-B MSD**

**Matrix: Solid**

**Analysis Batch: 49091**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 48913**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C28)	44		33.3	60.3		mg/Kg		48	40 - 120	1	30

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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

**Lab Sample ID: 440-21026-E-1-B MSD**  
**Matrix: Solid**  
**Analysis Batch: 49091**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 48913**

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
n-Octacosane	70		40 - 140

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 440-48876/1-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 49426**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Arsenic	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Barium	ND		0.99		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Beryllium	ND		0.49		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Cadmium	ND		0.49		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Chromium	ND		0.99		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Cobalt	ND		0.99		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Copper	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Lead	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Molybdenum	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Nickel	ND		2.0		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Thallium	ND		9.9		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Vanadium	ND		0.99		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Zinc	ND		4.9		mg/Kg		08/30/12 08:30	08/31/12 19:57	5
Silver	ND		0.99		mg/Kg		08/30/12 08:30	08/31/12 19:57	5

**Lab Sample ID: MB 440-48876/1-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 49709**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Selenium	ND		2.0		mg/Kg		08/30/12 08:30	09/04/12 18:54	5

**Lab Sample ID: LCS 440-48876/2-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 49426**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Antimony	49.5	46.3		mg/Kg		94	80 - 120
Arsenic	49.5	43.0		mg/Kg		87	80 - 120
Barium	49.5	46.4		mg/Kg		94	80 - 120
Beryllium	49.5	47.3		mg/Kg		96	80 - 120
Cadmium	49.5	43.4		mg/Kg		88	80 - 120
Chromium	49.5	47.2		mg/Kg		95	80 - 120
Cobalt	49.5	45.7		mg/Kg		92	80 - 120
Copper	49.5	47.3		mg/Kg		95	80 - 120
Lead	49.5	46.5		mg/Kg		94	80 - 120
Molybdenum	49.5	45.4		mg/Kg		92	80 - 120
Nickel	49.5	46.4		mg/Kg		94	80 - 120
Thallium	49.5	47.0		mg/Kg		95	80 - 120
Vanadium	49.5	46.7		mg/Kg		94	80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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

**Lab Sample ID: LCS 440-48876/2-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 49426**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	49.5	43.8		mg/Kg		89	80 - 120
Silver	24.8	23.6		mg/Kg		96	80 - 120

**Lab Sample ID: LCS 440-48876/2-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 49709**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	49.5	47.4		mg/Kg		96	80 - 120

**Lab Sample ID: 440-21755-A-1-B MS ^5**  
**Matrix: Solid**  
**Analysis Batch: 49426**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		50.0	22.7	F	mg/Kg		45	75 - 125
Arsenic	3.8		50.0	47.3		mg/Kg		87	75 - 125
Barium	120		50.0	183		mg/Kg		119	75 - 125
Beryllium	ND		50.0	51.3		mg/Kg		102	75 - 125
Cadmium	ND		50.0	45.8		mg/Kg		91	75 - 125
Chromium	24		50.0	73.5		mg/Kg		100	75 - 125
Cobalt	5.8		50.0	51.7		mg/Kg		92	75 - 125
Copper	18		50.0	70.6		mg/Kg		104	75 - 125
Lead	21		50.0	66.9		mg/Kg		92	75 - 125
Molybdenum	ND		50.0	45.2		mg/Kg		90	75 - 125
Nickel	12		50.0	58.3		mg/Kg		92	75 - 125
Thallium	ND		50.0	45.1		mg/Kg		90	75 - 125
Vanadium	28		50.0	82.0		mg/Kg		108	75 - 125
Zinc	67		50.0	118		mg/Kg		102	75 - 125
Silver	ND		25.0	25.6		mg/Kg		102	75 - 125

**Lab Sample ID: 440-21755-A-1-B MS ^5**  
**Matrix: Solid**  
**Analysis Batch: 49709**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		50.0	45.2		mg/Kg		90	75 - 125

**Lab Sample ID: 440-21755-A-1-C MSD ^5**  
**Matrix: Solid**  
**Analysis Batch: 49426**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	ND		49.0	24.2	F	mg/Kg		49	75 - 125	6	20
Arsenic	3.8		49.0	53.4		mg/Kg		101	75 - 125	12	20
Barium	120		49.0	191	F	mg/Kg		137	75 - 125	4	20
Beryllium	ND		49.0	52.0		mg/Kg		105	75 - 125	1	20
Cadmium	ND		49.0	46.7		mg/Kg		95	75 - 125	2	20
Chromium	24		49.0	78.3		mg/Kg		112	75 - 125	6	20
Cobalt	5.8		49.0	55.3		mg/Kg		101	75 - 125	7	20
Copper	18		49.0	72.8		mg/Kg		111	75 - 125	3	20

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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

**Lab Sample ID: 440-21755-A-1-C MSD ^5**  
**Matrix: Solid**  
**Analysis Batch: 49426**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Lead	21		49.0	71.2		mg/Kg		103	75 - 125	6	20
Molybdenum	ND		49.0	48.0		mg/Kg		97	75 - 125	6	20
Nickel	12		49.0	62.6		mg/Kg		102	75 - 125	7	20
Thallium	ND		49.0	47.5		mg/Kg		97	75 - 125	5	20
Vanadium	28		49.0	84.7		mg/Kg		116	75 - 125	3	20
Zinc	67		49.0	122		mg/Kg		112	75 - 125	3	20
Silver	ND		24.5	26.5		mg/Kg		108	75 - 125	3	20

**Lab Sample ID: 440-21755-A-1-C MSD ^5**  
**Matrix: Solid**  
**Analysis Batch: 49709**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 48876**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Selenium	ND		49.0	42.4		mg/Kg		87	75 - 125	6	20

**Lab Sample ID: MB 440-49732/1-B**  
**Matrix: Solid**  
**Analysis Batch: 50249**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 50036**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	ND		0.10		mg/L		09/05/12 23:42	09/06/12 14:38	1

**Lab Sample ID: LCS 440-49732/2-B**  
**Matrix: Solid**  
**Analysis Batch: 50249**

**Client Sample ID: Lab Control Sample**  
**Prep Type: TCLP**  
**Prep Batch: 50036**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Chromium	2.00	1.95		mg/L		97	80 - 120

**Lab Sample ID: 440-21515-A-1-G MS**  
**Matrix: Solid**  
**Analysis Batch: 50249**

**Client Sample ID: Matrix Spike**  
**Prep Type: TCLP**  
**Prep Batch: 50036**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Chromium	ND		2.00	1.99		mg/L		100	75 - 125

**Lab Sample ID: MB 440-49737/1-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 50616**

**Client Sample ID: Method Blank**  
**Prep Type: STLC Citrate**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	ND		0.10		mg/L			09/07/12 18:40	20

**Lab Sample ID: LCS 440-49737/2-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 50616**

**Client Sample ID: Lab Control Sample**  
**Prep Type: STLC Citrate**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Chromium	20.0	21.8		mg/L		109	80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

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

Lab Sample ID: 440-22154-A-5-B MS ^20  
Matrix: Solid  
Analysis Batch: 50616

Client Sample ID: Matrix Spike  
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.14		20.0	22.3		mg/L		111	75 - 125

Lab Sample ID: 440-22154-A-5-B MSD ^20  
Matrix: Solid  
Analysis Batch: 50616

Client Sample ID: Matrix Spike Duplicate  
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.14		20.0	21.5		mg/L		107	75 - 125	4	20

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-48610/1-A  
Matrix: Solid  
Analysis Batch: 49082

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 48610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		08/29/12 13:10	08/30/12 16:29	1

Lab Sample ID: LCS 440-48610/2-A  
Matrix: Solid  
Analysis Batch: 49082

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 48610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.766		mg/Kg		96	80 - 120

Lab Sample ID: 440-21631-A-1-C MS  
Matrix: Solid  
Analysis Batch: 49082

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 48610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.022		0.800	0.746		mg/Kg		90	70 - 130

Lab Sample ID: 440-21631-A-1-D MSD  
Matrix: Solid  
Analysis Batch: 49082

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 48610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.022		0.816	0.829		mg/Kg		99	70 - 130	11	20

## Method: 939-M - Organic Lead (GFAA)

Lab Sample ID: MB 440-50044/1-B  
Matrix: Solid  
Analysis Batch: 52951

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 50044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Organo-Lead	ND		0.025		mg/Kg		09/06/12 01:20	09/18/12 17:49	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Method: 939-M - Organic Lead (GFAA) (Continued)

**Lab Sample ID: LCS 440-50044/2-B**

**Matrix: Solid**

**Analysis Batch: 52951**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 50044**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Organo-Lead	0.100	0.0816		mg/Kg		82	80 - 120

**Lab Sample ID: 440-21469-73 MS**

**Matrix: Solid**

**Analysis Batch: 52951**

**Client Sample ID: CRA-B**

**Prep Type: Total/NA**

**Prep Batch: 50044**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Organo-Lead	ND	H	0.100	0.0486	F	mg/Kg		49	80 - 120

**Lab Sample ID: 440-21469-73 MSD**

**Matrix: Solid**

**Analysis Batch: 52951**

**Client Sample ID: CRA-B**

**Prep Type: Total/NA**

**Prep Batch: 50044**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Organo-Lead	ND	H	0.100	0.0587	F	mg/Kg		59	80 - 120	19	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## GC/MS VOA

### Analysis Batch: 48823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	8260B	
440-21469-73	CRA-B	Total/NA	Solid	8260B	
440-21469-74	CRA-C	Total/NA	Solid	8260B	
440-21469-75	CRA-D	Total/NA	Solid	8260B	
440-21469-76	CRA-E	Total/NA	Solid	8260B	
440-21469-77	CRA-F	Total/NA	Solid	8260B	
440-21484-A-6 MS	Matrix Spike	Total/NA	Solid	8260B	
440-21484-A-6 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
LCS 440-48823/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 440-48823/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 48824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-73	CRA-B	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-74	CRA-C	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-75	CRA-D	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-76	CRA-E	Total/NA	Solid	8260B/CA_LUFT MS	
440-21469-77	CRA-F	Total/NA	Solid	8260B/CA_LUFT MS	
440-21484-A-6 MS	Matrix Spike	Total/NA	Solid	8260B/CA_LUFT MS	
440-21484-A-6 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 440-48824/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
MB 440-48824/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

## GC Semi VOA

### Prep Batch: 48913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21026-E-1-A MS	Matrix Spike	Total/NA	Solid	CA LUFT	
440-21026-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	CA LUFT	
440-21469-72	CRA-A	Total/NA	Solid	CA LUFT	
440-21469-73	CRA-B	Total/NA	Solid	CA LUFT	
440-21469-74	CRA-C	Total/NA	Solid	CA LUFT	
440-21469-75	CRA-D	Total/NA	Solid	CA LUFT	
440-21469-76	CRA-E	Total/NA	Solid	CA LUFT	
440-21469-77	CRA-F	Total/NA	Solid	CA LUFT	
LCS 440-48913/2-A	Lab Control Sample	Total/NA	Solid	CA LUFT	
MB 440-48913/1-A	Method Blank	Total/NA	Solid	CA LUFT	

### Analysis Batch: 49091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21026-E-1-A MS	Matrix Spike	Total/NA	Solid	8015B	48913
440-21026-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	48913
440-21469-72	CRA-A	Total/NA	Solid	8015B	48913



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## GC Semi VOA (Continued)

### Analysis Batch: 49091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-73	CRA-B	Total/NA	Solid	8015B	48913
440-21469-74	CRA-C	Total/NA	Solid	8015B	48913
440-21469-75	CRA-D	Total/NA	Solid	8015B	48913
LCS 440-48913/2-A	Lab Control Sample	Total/NA	Solid	8015B	48913
MB 440-48913/1-A	Method Blank	Total/NA	Solid	8015B	48913

### Analysis Batch: 49093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-76	CRA-E	Total/NA	Solid	8015B	48913
440-21469-77	CRA-F	Total/NA	Solid	8015B	48913

## Metals

### Prep Batch: 48610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	7471A	
440-21469-73	CRA-B	Total/NA	Solid	7471A	
440-21469-74	CRA-C	Total/NA	Solid	7471A	
440-21469-75	CRA-D	Total/NA	Solid	7471A	
440-21469-76	CRA-E	Total/NA	Solid	7471A	
440-21469-77	CRA-F	Total/NA	Solid	7471A	
440-21631-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	
440-21631-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	
LCS 440-48610/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-48610/1-A	Method Blank	Total/NA	Solid	7471A	

### Prep Batch: 48876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	3050B	
440-21469-73	CRA-B	Total/NA	Solid	3050B	
440-21469-74	CRA-C	Total/NA	Solid	3050B	
440-21469-75	CRA-D	Total/NA	Solid	3050B	
440-21469-76	CRA-E	Total/NA	Solid	3050B	
440-21469-77	CRA-F	Total/NA	Solid	3050B	
440-21755-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-21755-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
LCS 440-48876/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-48876/1-A ^5	Method Blank	Total/NA	Solid	3050B	

### Analysis Batch: 49082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	7471A	48610
440-21469-73	CRA-B	Total/NA	Solid	7471A	48610
440-21469-74	CRA-C	Total/NA	Solid	7471A	48610
440-21469-75	CRA-D	Total/NA	Solid	7471A	48610
440-21469-76	CRA-E	Total/NA	Solid	7471A	48610
440-21469-77	CRA-F	Total/NA	Solid	7471A	48610
440-21631-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	48610
440-21631-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	48610
LCS 440-48610/2-A	Lab Control Sample	Total/NA	Solid	7471A	48610
MB 440-48610/1-A	Method Blank	Total/NA	Solid	7471A	48610

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Metals (Continued)

### Analysis Batch: 49426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	6010B	48876
440-21469-73	CRA-B	Total/NA	Solid	6010B	48876
440-21469-74	CRA-C	Total/NA	Solid	6010B	48876
440-21469-75	CRA-D	Total/NA	Solid	6010B	48876
440-21469-76	CRA-E	Total/NA	Solid	6010B	48876
440-21469-77	CRA-F	Total/NA	Solid	6010B	48876
440-21755-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	48876
440-21755-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	48876
LCS 440-48876/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	48876
MB 440-48876/1-A ^5	Method Blank	Total/NA	Solid	6010B	48876

### Analysis Batch: 49709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21755-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	48876
440-21755-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	48876
LCS 440-48876/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	48876
MB 440-48876/1-A ^5	Method Blank	Total/NA	Solid	6010B	48876

### Analysis Batch: 49715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-72	CRA-A	Total/NA	Solid	6010B	48876
440-21469-73	CRA-B	Total/NA	Solid	6010B	48876
440-21469-74	CRA-C	Total/NA	Solid	6010B	48876
440-21469-75	CRA-D	Total/NA	Solid	6010B	48876
440-21469-76	CRA-E	Total/NA	Solid	6010B	48876
440-21469-77	CRA-F	Total/NA	Solid	6010B	48876

### Leach Batch: 49732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-77	CRA-F	TCLP	Solid	1311	
440-21515-A-1-G MS	Matrix Spike	TCLP	Solid	1311	
LCS 440-49732/2-B	Lab Control Sample	TCLP	Solid	1311	
MB 440-49732/1-B	Method Blank	TCLP	Solid	1311	

### Leach Batch: 49737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-73	CRA-B	STLC Citrate	Solid	CA WET Citrate	
440-21469-74	CRA-C	STLC Citrate	Solid	CA WET Citrate	
440-21469-75	CRA-D	STLC Citrate	Solid	CA WET Citrate	
440-21469-76	CRA-E	STLC Citrate	Solid	CA WET Citrate	
440-21469-77	CRA-F	STLC Citrate	Solid	CA WET Citrate	
440-22154-A-5-B MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
440-22154-A-5-B MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	
LCS 440-49737/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
MB 440-49737/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	

### Prep Batch: 50036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-77	CRA-F	TCLP	Solid	3010A	49732
440-21515-A-1-G MS	Matrix Spike	TCLP	Solid	3010A	49732
LCS 440-49732/2-B	Lab Control Sample	TCLP	Solid	3010A	49732
MB 440-49732/1-B	Method Blank	TCLP	Solid	3010A	49732

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Metals (Continued)

### Prep Batch: 50044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-73	CRA-B	Total/NA	Solid	939M	
440-21469-73 MS	CRA-B	Total/NA	Solid	939M	
440-21469-73 MSD	CRA-B	Total/NA	Solid	939M	
LCS 440-50044/2-B	Lab Control Sample	Total/NA	Solid	939M	
MB 440-50044/1-B	Method Blank	Total/NA	Solid	939M	

### Analysis Batch: 50249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-77	CRA-F	TCLP	Solid	6010B	50036
440-21515-A-1-G MS	Matrix Spike	TCLP	Solid	6010B	50036
LCS 440-49732/2-B	Lab Control Sample	TCLP	Solid	6010B	50036
MB 440-49732/1-B	Method Blank	TCLP	Solid	6010B	50036

### Analysis Batch: 50616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-73	CRA-B	STLC Citrate	Solid	6010B	49737
440-21469-74	CRA-C	STLC Citrate	Solid	6010B	49737
440-21469-75	CRA-D	STLC Citrate	Solid	6010B	49737
440-21469-76	CRA-E	STLC Citrate	Solid	6010B	49737
440-21469-77	CRA-F	STLC Citrate	Solid	6010B	49737
440-22154-A-5-B MS ^20	Matrix Spike	STLC Citrate	Solid	6010B	49737
440-22154-A-5-B MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	49737
LCS 440-49737/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	49737
MB 440-49737/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	49737

### Analysis Batch: 52951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-21469-73	CRA-B	Total/NA	Solid	939-M	50044
440-21469-73 MS	CRA-B	Total/NA	Solid	939-M	50044
440-21469-73 MSD	CRA-B	Total/NA	Solid	939-M	50044
LCS 440-50044/2-B	Lab Control Sample	Total/NA	Solid	939-M	50044
MB 440-50044/1-B	Method Blank	Total/NA	Solid	939-M	50044

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

### Qualifiers

#### Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-21469-2

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:** Peter Schaefer 240523

**INCIDENT # (ENV SERVICES):** \_\_\_\_\_

**PO #:** \_\_\_\_\_ **SAP #:** \_\_\_\_\_

**CHECK IF NO INCIDENT # APPLIES:**

**DATE:** 8/21/12 **PAGE:** 1 of 2

**SAMPLING COMPANY:** Conestoga-Rovers & Associates

**LOG CODE:** CRAW

**ADDRESS:** 5900 Hollis Street, Suite A, Emeryville, CA 94608

**PROJECT CONTACT (Hardcopy or PDF Report to):** Peter Schaefer

**TELEPHONE:** 510-420-3319 **FAX:** 510-420-9170 **E-MAIL:** pschaefer@croworld.com

**TURNAROUND TIME (CALENDAR DAYS):**  STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES:** Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

**SITE ADDRESS: Street and City:** 4212 First Street, Pleasanton **State:** Ca **GLOBAL ID NO.:** T0600101259

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville **PHONE NO.:** 510-420-3343 **E-MAIL:** shelledf@croworld.com **CONSULTANT PROJECT NO.:** 240523-95-12.05

**SAMPLER NAME(S) (Print):** Cristina Arganbright **LAB USE ONLY:** 440-51469

**REQUESTED ANALYSIS**

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHlg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT 20 4.1 °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																	
	P-1-21.5	8/21/12	10:00	So					X				X	X	X											
	SVE-S-5.5	8/21/12	10:11	So					X				X	X	X											
	SVE-S-10	8/21/12	10:16	So					X				X	X	X											
	SVE-S-15	8/21/12	10:25	So					X				X	X	X											
	SVE-S-20	8/21/12	10:26	So					X				X	X	X											
	SVE-S-25	8/21/12	10:30	So					X				X	X	X											
	SVE-S-30	8/21/12	10:39	So					X				X	X	X											
	SVE-S-35	8/21/12	10:46	So					X				X	X	X											
	SVE-S-40	8/21/12	10:53	So					X				X	X	X											

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> OFFICE Emeryville	Date: 8/21/12	Time: 16:00
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) <i>[Signature]</i> 8-23-12 16:00	Received by: (Signature) <i>[Signature]</i>	Date: 8/24/12	Time: 9:25

05/2/06 Revision

9/19/2012



LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name:  
**Peter Schaefer 240523**

PO # \_\_\_\_\_

INCIDENT # (ENV SERVICES) \_\_\_\_\_

DATE: **8/21/12**

PAGE: **2** of **2**

SAMPLING COMPANY: **Conestoga-Rovers & Associates**

LOG CODE: **CRAW**

SITE ADDRESS: Street and City  
**4212 First Street, Pleasanton**

State: **Ca** GLOBAL ID NO.: **T0600101259**

ADDRESS:  
**5900 Hollis Street, Suite A, Emeryville, CA 94608**

EDF DELIVERABLE TO (Name, Company, Office Location):  
**Brenda Carter, CRA, Emeryville**

PHONE NO.: **510-420-3343** E-MAIL: **shelledf@croworld.com** CONSULTANT PROJECT NO.: **240523-95-12.05**

PROJECT CONTACT (Hardcopy or PDF Report to):  
**Peter Schaefer**

TELEPHONE: **510-420-3319** FAX: **510-420-9170** E-MAIL: **pschaefer@croworld.com**

SAMPLER NAME(S) (Print):  
**Cristina Arganbright**

LAB USE ONLY: **440-2-1169**

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:  
Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT  
Circled 4.5

Page 30 of 38 LAB USE ONLY	Field Sample Identification			PRESERVATIVE					NO. OF CONT.	TPH -ORO, Purgeable (8260B)	TPH -ORO, Extractable (8015M)	TPHlg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Container PID Readings or Laboratory Notes
				HCL	HNO3	H2SO4	NONE	OTHER																
	DATE	TIME	MATRIX																					
	EW-2-20'	8/20/1130	SO				X		1	X		X	X	X										
	EW-2-25'	8/20/1137	SO				X		1	X		X	X	X										
	EW-2-30'	8/20/1142	SO				X		1	X		X	X	X										
	EW-2-35'	8/20/1149	SO				X		1	X		X	X	X										
	EW-2-40'	8/20/1156	SO				X		1	X		X	X	X										
	P-1-5.5	8/21/0738	SO				X		1	X		X	X	X										
	P-1-10	8/21/0748	SO				X		1	X		X	X	X										
	P-1-14.5	8/21/0755	SO				X		1	X		X	X	X										
	P-16.5	8/21/0806	SO				X		1	X		X	X	X										
	P-1-20	8/21/0811	SO				X		1	X		X	X	X										

Relinquished by (Signature):	Received by (Signature): <b>Emeryville Office</b>	Date: <b>8/21/12</b>	Time: <b>16:00</b>
Relinquished by (Signature):	Received by (Signature): <b>Shelly Taylor</b>	Date: <b>8-23-12</b>	Time: <b>11:00</b>
Relinquished by (Signature): <b>Shelly Taylor</b>	Received by (Signature): <b>Van Bauer</b>	Date: <b>8/24/12</b>	Time: <b>9:25</b>

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES):  CHECK IF NO INCIDENT # APPLIES

DATE: **8/24/12**

PO #: \_\_\_\_\_ SAP #: \_\_\_\_\_

PAGE: **3** of **9**

SAMPLING COMPANY: **Conestoga-Rovers & Associates** LOG CODE: **CRAW**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608**

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer**

TELEPHONE: **510-420-3319** FAX: **510-420-9170** E-MAIL: **pschaefer@croworld.com**

TURNAROUND TIME (CALENDAR DAYS):  STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:   
 Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES  STATE REIMBURSEMENT RATE APPLIES  EDD NOT NEEDED  RECEIPT VERIFICATION REQUESTED

SITE ADDRESS: Street and City: **4212 First Street, Pleasanton** State: **Ca** GLOBAL ID NO.: **T0600101259**

EDF DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO.: **510-420-3343** E-MAIL: **shelledf@croworld.com** CONSULTANT PROJECT NO.: **240523-95-12.05**

SAMPLER NAME(S) (Print): **Cristina Arganbright** LAB USE ONLY: **490-21460**

REQUESTED ANALYSIS

TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXY's (MTBE, TBA, DIPE, TAMIE, ETBE) 8260B	FULL VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT °C <b>4.1</b>
-----------------------------	-------------------------------	--------------	---------------	--------------	--------------	---------------------------	---	-----------------------	--------------------------	-----------------	-------------	-----------------	------------------	---

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS													Container PID Readings or Laboratory Notes			
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXY's (MTBE, TBA, DIPE, TAMIE, ETBE) 8260B	FULL VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)		Methanol (8015M)		
	EW-1-5.5'	8/20	0830	So				X		1	X			X	X	X											
	EW-1-10'	8/20	0846	So				X		1	X			X	X	X											
	EW-1-12.5'	8/20	0852	So				X		1	X			X	X	X											
	EW-1-15.5'	8/20	0857	So				X		1	X			X	X	X											
	EW-1-17.5'	8/20	0903	So				X		1	X			X	X	X											
	EW-1-20.5'	8/20	0911	So				X		1	X			X	X	X											
	EW-1-22.5'	8/20	0915	So				X		1	X			X	X	X											
	EW-2-5.5'	8/20	116	So				X		1	X			X	X	X											
	EW-2-10'	8/20	1125	So				X		1	X			X	X	X											
	EW-2-15'	8/20	1126	So				X		1	X			X	X	X											

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Emeryville office</i>	Date: <b>8/24/12</b>	Time: <b>1600</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Geoff Taylor</i>	Date: <b>8-23-12</b>	Time: <b>11:00</b>
Relinquished by: (Signature) <i>Geoff Taylor</i>	Received by: (Signature) <i>VuBank</i>	Date: <b>8/24/12</b>	Time: <b>9:25</b>

9/18/2012





LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:			Print Bill To Contact Name:			INCIDENT # (ENV SERVICES):			<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES		
<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL	Peter Schaefer 240523						DATE: 8/22/12		
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES	PO #			SAP #			PAGE: 4 of 9		
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER										

SAMPLING COMPANY: <b>Conestoga-Rovers &amp; Associates</b>		LOG CODE: <b>CRAW</b>	SITE ADDRESS: Street and City <b>4212 First Street, Pleasanton</b>		State <b>Ca</b>	GLOBAL ID NO.: <b>T0600101259</b>
ADDRESS: <b>5900 Hollis Street, Suite A, Emeryville, CA 94608</b>			EDF DELIVERABLE TO (Name, Company, Office Location): <b>Brenda Carter, CRA, Emeryville</b>		PHONE NO.: <b>510-420-3343</b>	E-MAIL: <b>shelledf@croworld.com</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Peter Schaefer</b>			SAMPLER NAME(S) (Print): <b>Cristina Arganbright</b>		CONSULTANT PROJECT NO.: <b>240523-95-12.05</b>	
TELEPHONE: <b>510-420-3319</b>	FAX: <b>510-420-9170</b>	E-MAIL: <b>pschaefer@croworld.com</b>	LAB USE ONLY <b>440-31469</b>			

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  
 5 DAYS  
 3 DAYS  
 2 DAYS  
 24 HOURS  
 RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  
 UST AGENCY:

## REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@croworld.com

- SHELL CONTRACT RATE APPLIES
- STATE REIMBURSEMENT RATE APPLIES
- EDD NOT NEEDED
- RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - GRO, Purgable (8260B)	TPH - DRO, Extractable (8015M)	TPHig (8015M)	MTBE (8260 B)	BTEX (8260B)	TBA (8260 B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																C°	
	P-2-5.5'	8/22/12	0823	SO					X			X	X	X											23	
	P-2-10'	8/22/12	0826	SO					X			X	X	X											4.1	
	P-2-15'	8/22/12	0831	SO					X			X	X	X												
	P-2-20'	8/22/12	0837	SO					X			X	X	X												
	P-2-25'	8/22/12	0844	SO					X			X	X	X												
	P-2-30'	8/22/12	0851	SO					X			X	X	X												
	P-2-35'	8/22/12	0900	SO					X			X	X	X												
	P-2-40'	8/22/12	0908	SO					X			X	X	X												
	AS-1-5'	8/22/12	1103	SO					X			X	X	X												
	AS-1-10'	8/22/12	1104	SO					X			X	X	X												

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Emeryville office</i>	Date: 8/22/12	Time: 11:00
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Deval Taylor</i>	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 8/24/12	Time: 9:25

9/19/2012

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES) \_\_\_\_\_

PO # \_\_\_\_\_ SAP # \_\_\_\_\_

DATE: **8/22/12**

PAGE: **5** of **9**

SAMPLING COMPANY: **Conestoga-Rovers & Associates** LOG CODE: **CRAW**

ADDRESS: **5900 Hill St, Suite A, Emeryville CA 94608** SITE ADDRESS: Street and City: **4212 First St, Pleasanton CA** State: **CA** GLOBAL ID NO.: **T0600101257**

EDF DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CEM, Em.** PHONE NO.: **510-420-3843** E-MAIL: **shelleef@croworld.com** CONSULTANT PROJECT NO.: **240523-95-12.05**

TELEPHONE: **510-420-3319** FAX: **510-420-9170** E-MAIL: **PSchaefer@croworld.com**

SAMPLER NAME(S) (PID/ID): \_\_\_\_\_

LAB USE ONLY: **490-71460**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8016M)	TPH (8016M)	MTBE (8260B)	BTEX (8260B)	BTEX + MTBE (8260B)	TBA (8260B)	BTEX + 6 OXYs (M1, M2, 1, 2, 4, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8016M)
X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X						
X	X	X	X	X	X	X	X						

TEMPERATURE ON RECEIPT

**CS** °C

**4.1**

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
	AS-1-15'	8/22	11:05	SO				X		1
	AS-1-20'	8/22	11:08	SO				X		1
	AS-1-25'	8/22	11:11	SO				X		1
	AS-1-30'	8/22	11:16	SO				X		1
	AS-1-33'	8/22	11:37	SO				X		1
	AS-1-35'	8/22	11:23	SO				X		1
	AS-1-40'	8/22	11:51	SO				X		1
	AS-1-45'	8/22	12:00	SO				X		1

Container PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature) <b>Emeryville Office</b>	Date: <b>8/22/12</b>	Time: <b>11:00</b>
Relinquished by: (Signature)	Received by: (Signature) <b>Donald Taylor</b>	Date: <b>8-23-12</b>	Time: <b>11:00</b>
Relinquished by: (Signature) <b>Donald Taylor</b>	Received by: (Signature) <b>Rob Bauer</b>	Date: <b>8/24/12</b>	Time: <b>9:25</b>

06/2/09 Revision



Disposal

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES):

DATE: 8/21/12

PAGE: 4 of 59

SAMPLING COMPANY: **Conestoga-Rovers & Associates** LOG CODE: **CRAW** SITE ADDRESS: Street and City: **4212 First Street, Pleasanton** State: **CA** GLOBAL ID NO.: **T0600101259**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608** EDI DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO.: **510-420-3343** E-MAIL: **shelledf@croworld.com** CONSULTANT PROJECT NO.: **240523-95-12.05**

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer** SAMPLER NAME(S) (Print): **Cristina Arganbright** LAB USE ONLY: **UCC-21460**

TELEPHONE: **510-420-3379** FAX: **510-420-9170** E-MAIL: **pschaefer@croworld.com**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-A

SHELL CONTRACT RATE APPLIES

RATE REIMBURSEMENT RATE APPLIES EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAME17 Metals - Total (8010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes	
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																						
	CRA-2A	8/20	1030	SO					X	1	X	X	X											X	X					95 4.1	Please call
	CRA-3A	8/20	1033	SO					X	1	X	X	X											X	X						composite
	CRA-4A	8/20	1030	SO					X	1	X	X	X											X	X						sample
	CRA-5A	8/20	1027	SO					X	1	X	X	X											X	X						CRA-A
	CRA-6B	8/20	1025	So					X	1	X	X	X											X	X						
	CRA-7B	8/20	1030	So					X	1	X	X	X											X	X						
	CRA-8B	8/20	1136	So					X	1	X	X	X											X	X						
	CRA-9B	8/20	1216	So					X	1	X	X	X											X	X						
	CRA-10C	8/20	1323	So					X	1	X	X	X											X	X						
	CRA-11C	8/20	1330	So					X	1	X	X	X											X	X						

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Emeryville office</i>	Date: 8/24/12	Time: 1600
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>Geralt Taylor</i>	Date: 8-23-12	Time: 11:00
Relinquished by: (Signature) <i>Geralt Taylor</i>	Received by: (Signature) <i>VuB...</i>	Date: 8/24/12	Time: 9:25

05/2/06 Revision

Page 34 of 38

9/19/2012



Disposal



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES): \_\_\_\_\_

PO # \_\_\_\_\_ SAP # \_\_\_\_\_

DATE: **8/21/12**

PAGE: **87** of **89**

SAMPLING COMPANY: **Conestoga-Rovers & Associates** LOG CODE: **CRAW** SITE ADDRESS: Street and City **4212 First Street, Pleasanton** State: **CA** GLOBAL ID NO.: **T0600101259**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608** EDF DELIVERABLE TO (Name, Company, Office Location): \_\_\_\_\_ PHONE NO.: \_\_\_\_\_ E-MAIL: \_\_\_\_\_ CONSULTANT PROJECT NO.: \_\_\_\_\_

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer** **Brenda Carter, CRA, Emeryville** 510-420-3343 **shelledf@croworld.com** 240523-95-12.05

TELEPHONE: **510-420-3379** FAX: **510-420-9170** E-MAIL: **pschaefer@croworld.com** SAMPLER NAME(S) (Print): **Cristina Arganbright** LAB USE ONLY: **140-21469**

TURNAROUND TIME (CALENDAR DAYS):  STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES : **cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com**  SHELL CONTRACT RATE APPLIES  STATE REIMBURSEMENT RATE APPLIES  EDD NOT NEEDED  RECEIPT VERIFICATION REQUESTED

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOcs (8270C)	VOCs (8260)	PCBs (8082)
X	X	X											X	X			
X	X	X											X	X			
X	X	X											X	X			
X	X	X											X	X			
X	X	X											X	X			
X	X	X											X	X			
X	X	X											X	X			
X	X	X											X	X			

TEMPERATURE ON RECEIPT **25 C**

Container PID Readings or Laboratory Notes

Call composite sample ID and field point name: CRA-A

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
<b>CRA-12C</b>	<b>8/20/12</b>	<b>13:45</b>	SO				X		1
<b>CRA-13C</b>	<b>8/20/12</b>	<b>14:08</b>	SO				X		1
<b>CRA-14D</b>	<b>8/21/12</b>	<b>10:23</b>	SO				X		1
<b>CRA-15D</b>	<b>8/21/12</b>	<b>10:29</b>	SO				X		1
<b>CRA-16D</b>	<b>8/21/12</b>	<b>10:48</b>	SO				X		1
<b>CRA-17D</b>	<b>8/21/12</b>	<b>11:05</b>	SO				X		1
<b>CRA-18E</b>	<b>8/21/12</b>	<b>12:00</b>	SO				X		1
<b>CRA-19E</b>	<b>8/21/12</b>	<b>12:07</b>	SO				X		1

Relinquished by: (Signature) <b>[Signature]</b>	Received by: (Signature) <b>Emeryville Office</b>	Date: <b>8/21/12</b>	Time: <b>16:00</b>
Relinquished by: (Signature) <b>[Signature]</b>	Received by: (Signature) <b>Devald Taylor</b>	Date: <b>8-23-12</b>	Time: <b>11:00</b>
Relinquished by: (Signature) <b>Devald Taylor</b>	Received by: (Signature) <b>N. Baner</b>	Date: <b>8/24/12</b>	Time: <b>9:25</b>

Page 35 of 38

9/19/2012

05/2006 Revision



Disposal

LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: Peter Schaefer 240523

INCIDENT # (ENV SERVICES):

DATE: 8/22/12

PAGE: 8 of 9

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

SITE ADDRESS: Street and City: 4212 First Street, Pleasanton

State: CA

GLOBAL ID NO.: T0600101259

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-3343

E-MAIL: shellcedf@croworld.com

CONSULTANT PROJECT NO.: 240523-95-12.05

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3379

FAX: 510-420-9170

E-MAIL: pschaefer@croworld.com

SAMPLER NAME(S) (Print): Cristina Arganbright

LAB USE ONLY: 440-21464

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

cc: Derek Eisman, DEisman@croworld.com and Shell.Lab.Billing@croworld.com

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

Call composite sample ID and field point name: CRA-A

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPH - MO (8015M)	CAM17 Metals - Total (6010)	SVOCs (8270C)	VOCs (8260)	PCBs (8082)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes	
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER																						
	CRA-20E	8/12	8:41	SO						1	X	X	X																		Please call
	CRA-21E	8/12	8:48	SO						1	X	X	X																		composite
	CRA-22F	8/22	11:00	SO						1	X	X	X																		sample
	CRA-23F	8/22	11:48	SO						1	X	X	X																		CRA-A
	CRA-24F	8/22	11:50	SO						1	X	X	X																		
	CRA-25F	8/22	13:22	SO						1	X	X	X																		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	Emeryville office	8/22/12	11:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	Heath Taylor	8-23-12	11:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Heath Taylor	W. Bank	8/24/12	9:25

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### California Contingent Analyses - Metals

Metal	Trigger level TTLC (mg/kg)	Requirement (based on CCR 66261.24) [Both Solids and Liquids]
Antimony	150	STLC required if TTLC $\geq$ 150 mg/kg
Arsenic	50/100	STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Barium	1,000/2,000	STLC required if TTLC $\geq$ 1,000 mg/kg; TCLP required if TTLC $\geq$ 2,000 mg/kg
Beryllium	7.5	STLC required if TTLC $\geq$ 7.5 mg/kg
Cadmium	10/20	STLC required if TTLC $\geq$ 10 mg/kg; TCLP required if TTLC $\geq$ 20 mg/kg
Chromium	50/100	STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Cobalt	800	STLC required if TTLC $\geq$ 800 mg/kg
Copper	250	STLC required if TTLC $\geq$ 250 mg/kg
Lead	13/50/100	Organic lead required if TTLC lead $\geq$ 13 mg/kg STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Mercury	2/4	STLC required if TTLC $\geq$ 2 mg/kg; TCLP required if TTLC $\geq$ 4 mg/kg
Molybdenum	3,500	STLC required if TTLC $\geq$ 350 mg/kg
Nickel	200	STLC required if TTLC $\geq$ 200 mg/kg
Selenium	10/20	STLC required if TTLC $\geq$ 10 mg/kg; TCLP required if TTLC $\geq$ 20 mg/kg
Silver	50/100	STLC required if TTLC $\geq$ 50 mg/kg; TCLP required if TTLC $\geq$ 100 mg/kg
Thallium	70	STLC required if TTLC $\geq$ 70 mg/kg
Vanadium	240	STLC required if TTLC $\geq$ 240 mg/kg
Zinc	2,500	STLC required if TTLC $\geq$ 2,500 mg/kg

### California Contingent Analyses - Organics

Organic Constituents	Trigger level TTLC (mg/kg)	Requirement (based on CCR 66261.24) [Both Solids and Liquids]
Pentachlorophenol	1.7	STLC required if TTLC $\geq$ 1.7
Trichloroethylene	10/204	STLC required if TTLC $\geq$ 10 mg/kg; TCLP required if TTLC $\geq$ 204 mg/kg

Organic Constituents	(mg/kg)	Requirements based on TSDF permits [ONLY for Solids if they meet the below criteria]
TPHd	20,000	Requires fish bioassay (Acute Aquatic 96 hr LC 50)
TPHg	5,900	Requires fish bioassay (Acute Aquatic 96 hr LC 50)
TPHmo	10,000	Requires fish bioassay (Acute Aquatic 96 hr LC 50)
TRPH (tot rec pet hc)	5,000	Requires fish bioassay (Acute Aquatic 96 hr LC 50)

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-21469-2

**Login Number: 21469**

**List Number: 1**

**Creator: Perez, Angel**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	Cristina Arganbright
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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 Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23246-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/19/2012 5:36:47 PM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23246-1	EW-1	Air	09/12/12 09:00	09/13/12 10:00
440-23246-2	EW-2	Air	09/12/12 09:00	09/13/12 10:00
440-23246-3	P-2	Air	09/12/12 09:00	09/13/12 10:00
440-23246-4	SVE-3	Air	09/12/12 09:00	09/13/12 10:00
440-23246-5	SVE-4	Air	09/12/12 09:00	09/13/12 10:00
440-23246-6	SVE-5	Air	09/12/12 09:00	09/13/12 10:00
440-23246-7	SVE-5	Air	09/12/12 10:10	09/13/12 10:00
440-23246-8	INF-2	Air	09/12/12 10:10	09/13/12 10:00
440-23246-9	SVE-5	Air	09/12/12 12:15	09/13/12 10:00
440-23246-10	INF-2	Air	09/12/12 12:15	09/13/12 10:00
440-23246-11	EW-1	Air	09/12/12 11:00	09/13/12 10:00
440-23246-12	EW-2	Air	09/12/12 11:00	09/13/12 10:00
440-23246-13	P-2	Air	09/12/12 11:00	09/13/12 10:00
440-23246-14	SVE-3	Air	09/12/12 11:00	09/13/12 10:00
440-23246-15	SVE-4	Air	09/12/12 11:00	09/13/12 10:00
440-23246-16	SVE-5	Air	09/12/12 11:00	09/13/12 10:00
440-23246-17	INF-2	Air	09/12/12 11:00	09/13/12 10:00

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

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**Job ID: 440-23246-1**

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**Laboratory: TestAmerica Irvine**

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**Narrative**

**Job Narrative**  
**440-23246-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/13/2012 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

**GC/MS VOA**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.

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# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23246-1**

**Date Collected: 09/12/12 09:00**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

**Sample Container: Tedlar Bag 1L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 11:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	88		80 - 120		09/14/12 11:24	1
4-Bromofluorobenzene (Surr)	92		80 - 120		09/14/12 11:24	1
Toluene-d8 (Surr)	111		80 - 120		09/14/12 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 11:24	1
Toluene	ND		2.0		mg/m3			09/14/12 11:24	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 11:24	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 11:24	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 11:24	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 11:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 11:24	1
Toluene	ND		0.53		ppm v/v			09/14/12 11:24	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 11:24	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 11:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 11:24	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/14/12 11:24	1
Dibromofluoromethane (Surr)	88		80 - 120		09/14/12 11:24	1
Toluene-d8 (Surr)	111		80 - 120		09/14/12 11:24	1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23246-2**

**Date Collected: 09/12/12 09:00**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

**Sample Container: Tedlar Bag 1L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	15000		500		mg/m3			09/14/12 12:25	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	3800		120		ppm v/v			09/14/12 12:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120		09/14/12 12:25	5
4-Bromofluorobenzene (Surr)	101		80 - 120		09/14/12 12:25	5
Toluene-d8 (Surr)	109		80 - 120		09/14/12 12:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10		mg/m3			09/14/12 12:25	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: EW-2

Lab Sample ID: 440-23246-2

Date Collected: 09/12/12 09:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		10		mg/m3			09/14/12 12:25	5
Ethylbenzene	ND		10		mg/m3			09/14/12 12:25	5
Xylenes, Total	ND		30		mg/m3			09/14/12 12:25	5
Methyl-t-Butyl Ether (MTBE)	ND		10		mg/m3			09/14/12 12:25	5
tert-Butyl alcohol (TBA)	ND		1000		mg/m3			09/14/12 12:25	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.1		ppm v/v			09/14/12 12:25	5
Toluene	ND		2.7		ppm v/v			09/14/12 12:25	5
Ethylbenzene	ND		2.3		ppm v/v			09/14/12 12:25	5
Xylenes, Total	ND		6.9		ppm v/v			09/14/12 12:25	5
Methyl-t-Butyl Ether (MTBE)	ND		2.8		ppm v/v			09/14/12 12:25	5
tert-Butyl alcohol (TBA)	ND		330		ppm v/v			09/14/12 12:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		09/14/12 12:25	5
Dibromofluoromethane (Surr)	97		80 - 120		09/14/12 12:25	5
Toluene-d8 (Surr)	109		80 - 120		09/14/12 12:25	5

## Client Sample ID: P-2

Lab Sample ID: 440-23246-3

Date Collected: 09/12/12 09:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 12:56	1
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		09/14/12 12:56	1
4-Bromofluorobenzene (Surr)	97		80 - 120		09/14/12 12:56	1
Toluene-d8 (Surr)	110		80 - 120		09/14/12 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 12:56	1
Toluene	ND		2.0		mg/m3			09/14/12 12:56	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 12:56	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 12:56	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 12:56	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 12:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 12:56	1
Toluene	ND		0.53		ppm v/v			09/14/12 12:56	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 12:56	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 12:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 12:56	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 12:56	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: P-2**  
**Date Collected: 09/12/12 09:00**  
**Date Received: 09/13/12 10:00**  
**Sample Container: Tedlar Bag 1L**

**Lab Sample ID: 440-23246-3**  
**Matrix: Air**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		09/14/12 12:56	1
Dibromofluoromethane (Surr)	96		80 - 120		09/14/12 12:56	1
Toluene-d8 (Surr)	110		80 - 120		09/14/12 12:56	1

**Client Sample ID: SVE-3**  
**Date Collected: 09/12/12 09:00**  
**Date Received: 09/13/12 10:00**  
**Sample Container: Tedlar Bag 1L**

**Lab Sample ID: 440-23246-4**  
**Matrix: Air**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 13:27	1
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		09/14/12 13:27	1
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 13:27	1
Toluene-d8 (Surr)	109		80 - 120		09/14/12 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 13:27	1
Toluene	ND		2.0		mg/m3			09/14/12 13:27	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 13:27	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 13:27	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 13:27	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 13:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 13:27	1
Toluene	ND		0.53		ppm v/v			09/14/12 13:27	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 13:27	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 13:27	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 13:27	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 13:27	1
Dibromofluoromethane (Surr)	99		80 - 120		09/14/12 13:27	1
Toluene-d8 (Surr)	109		80 - 120		09/14/12 13:27	1

**Client Sample ID: SVE-4**  
**Date Collected: 09/12/12 09:00**  
**Date Received: 09/13/12 10:00**  
**Sample Container: Tedlar Bag 1L**

**Lab Sample ID: 440-23246-5**  
**Matrix: Air**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	420		100		mg/m3			09/14/12 13:57	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: SVE-4**

**Lab Sample ID: 440-23246-5**

Date Collected: 09/12/12 09:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>100</b>		24		ppm v/v			09/14/12 13:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	103		80 - 120					09/14/12 13:57	1
4-Bromofluorobenzene (Surr)	100		80 - 120					09/14/12 13:57	1
Toluene-d8 (Surr)	110		80 - 120					09/14/12 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 13:57	1
Toluene	ND		2.0		mg/m3			09/14/12 13:57	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 13:57	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 13:57	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 13:57	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 13:57	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Benzene	ND		0.63		ppm v/v			09/14/12 13:57	1
Toluene	ND		0.53		ppm v/v			09/14/12 13:57	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 13:57	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 13:57	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 13:57	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 13:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	100		80 - 120					09/14/12 13:57	1
Dibromofluoromethane (Surr)	103		80 - 120					09/14/12 13:57	1
Toluene-d8 (Surr)	110		80 - 120					09/14/12 13:57	1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23246-6**

Date Collected: 09/12/12 09:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>4200</b>		100		mg/m3			09/14/12 23:02	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1000</b>		24		ppm v/v			09/14/12 23:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	105		80 - 120					09/14/12 23:02	1
4-Bromofluorobenzene (Surr)	104		80 - 120					09/14/12 23:02	1
Toluene-d8 (Surr)	109		80 - 120					09/14/12 23:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.4</b>		2.0		mg/m3			09/14/12 23:02	1
Toluene	ND		2.0		mg/m3			09/14/12 23:02	1
<b>Ethylbenzene</b>	<b>9.3</b>		2.0		mg/m3			09/14/12 23:02	1
<b>Xylenes, Total</b>	<b>19</b>		6.0		mg/m3			09/14/12 23:02	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23246-6**

Date Collected: 09/12/12 09:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 23:02	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 23:02	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.74</b>		0.63		ppm v/v			09/14/12 23:02	1
Toluene	ND		0.53		ppm v/v			09/14/12 23:02	1
<b>Ethylbenzene</b>	<b>2.1</b>		0.46		ppm v/v			09/14/12 23:02	1
<b>Xylenes, Total</b>	<b>4.5</b>		1.4		ppm v/v			09/14/12 23:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 23:02	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120					09/14/12 23:02	1
Dibromofluoromethane (Surr)	105		80 - 120					09/14/12 23:02	1
Toluene-d8 (Surr)	109		80 - 120					09/14/12 23:02	1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23246-7**

Date Collected: 09/12/12 10:10

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2600</b>		100		mg/m3			09/14/12 14:58	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>630</b>		24		ppm v/v			09/14/12 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120					09/14/12 14:58	1
4-Bromofluorobenzene (Surr)	98		80 - 120					09/14/12 14:58	1
Toluene-d8 (Surr)	109		80 - 120					09/14/12 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.0</b>		2.0		mg/m3			09/14/12 14:58	1
Toluene	ND		2.0		mg/m3			09/14/12 14:58	1
<b>Ethylbenzene</b>	<b>13</b>		2.0		mg/m3			09/14/12 14:58	1
<b>Xylenes, Total</b>	<b>28</b>		6.0		mg/m3			09/14/12 14:58	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 14:58	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 14:58	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.3</b>		0.63		ppm v/v			09/14/12 14:58	1
Toluene	ND		0.53		ppm v/v			09/14/12 14:58	1
<b>Ethylbenzene</b>	<b>3.0</b>		0.46		ppm v/v			09/14/12 14:58	1
<b>Xylenes, Total</b>	<b>6.4</b>		1.4		ppm v/v			09/14/12 14:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 14:58	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120					09/14/12 14:58	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: SVE-5

Lab Sample ID: 440-23246-7

Date Collected: 09/12/12 10:10

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		09/14/12 14:58	1
Toluene-d8 (Surr)	109		80 - 120		09/14/12 14:58	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23246-8

Date Collected: 09/12/12 10:10

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2300		100		mg/m3			09/14/12 15:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	570		24		ppm v/v			09/14/12 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		09/14/12 15:28	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 15:28	1
Toluene-d8 (Surr)	108		80 - 120		09/14/12 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.9		2.0		mg/m3			09/14/12 15:28	1
Toluene	ND		2.0		mg/m3			09/14/12 15:28	1
Ethylbenzene	11		2.0		mg/m3			09/14/12 15:28	1
Xylenes, Total	22		6.0		mg/m3			09/14/12 15:28	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 15:28	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 15:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2		0.63		ppm v/v			09/14/12 15:28	1
Toluene	ND		0.53		ppm v/v			09/14/12 15:28	1
Ethylbenzene	2.5		0.46		ppm v/v			09/14/12 15:28	1
Xylenes, Total	5.1		1.4		ppm v/v			09/14/12 15:28	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 15:28	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 15:28	1
Dibromofluoromethane (Surr)	101		80 - 120		09/14/12 15:28	1
Toluene-d8 (Surr)	108		80 - 120		09/14/12 15:28	1

## Client Sample ID: SVE-5

Lab Sample ID: 440-23246-9

Date Collected: 09/12/12 12:15

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	770		100		mg/m3			09/14/12 15:59	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23246-9**

Date Collected: 09/12/12 12:15

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>190</b>		24		ppm v/v			09/14/12 15:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	105		80 - 120					09/14/12 15:59	1
4-Bromofluorobenzene (Surr)	96		80 - 120					09/14/12 15:59	1
Toluene-d8 (Surr)	108		80 - 120					09/14/12 15:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 15:59	1
Toluene	ND		2.0		mg/m3			09/14/12 15:59	1
<b>Ethylbenzene</b>	<b>3.4</b>		2.0		mg/m3			09/14/12 15:59	1
<b>Xylenes, Total</b>	<b>6.3</b>		6.0		mg/m3			09/14/12 15:59	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 15:59	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 15:59	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 15:59	1
Toluene	ND		0.53		ppm v/v			09/14/12 15:59	1
<b>Ethylbenzene</b>	<b>0.79</b>		0.46		ppm v/v			09/14/12 15:59	1
<b>Xylenes, Total</b>	<b>1.5</b>		1.4		ppm v/v			09/14/12 15:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 15:59	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 15:59	1
Dibromofluoromethane (Surr)	105		80 - 120		09/14/12 15:59	1
Toluene-d8 (Surr)	108		80 - 120		09/14/12 15:59	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23246-10**

Date Collected: 09/12/12 12:15

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2700</b>		100		mg/m3			09/14/12 16:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>650</b>		24		ppm v/v			09/14/12 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120		09/14/12 16:29	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 16:29	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.3</b>		2.0		mg/m3			09/14/12 16:29	1
Toluene	ND		2.0		mg/m3			09/14/12 16:29	1
<b>Ethylbenzene</b>	<b>15</b>		2.0		mg/m3			09/14/12 16:29	1
<b>Xylenes, Total</b>	<b>36</b>		6.0		mg/m3			09/14/12 16:29	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23246-10

Date Collected: 09/12/12 12:15

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 16:29	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 16:29	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.4</b>		0.63		ppm v/v			09/14/12 16:29	1
Toluene	ND		0.53		ppm v/v			09/14/12 16:29	1
<b>Ethylbenzene</b>	<b>3.6</b>		0.46		ppm v/v			09/14/12 16:29	1
<b>Xylenes, Total</b>	<b>8.3</b>		1.4		ppm v/v			09/14/12 16:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 16:29	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					09/14/12 16:29	1
Dibromofluoromethane (Surr)	104		80 - 120					09/14/12 16:29	1
Toluene-d8 (Surr)	107		80 - 120					09/14/12 16:29	1

## Client Sample ID: EW-1

Lab Sample ID: 440-23246-11

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 17:00	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120					09/14/12 17:00	1
4-Bromofluorobenzene (Surr)	94		80 - 120					09/14/12 17:00	1
Toluene-d8 (Surr)	106		80 - 120					09/14/12 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 17:00	1
Toluene	ND		2.0		mg/m3			09/14/12 17:00	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 17:00	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 17:00	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 17:00	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 17:00	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 17:00	1
Toluene	ND		0.53		ppm v/v			09/14/12 17:00	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 17:00	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 17:00	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 17:00	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120					09/14/12 17:00	1
Dibromofluoromethane (Surr)	104		80 - 120					09/14/12 17:00	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: EW-1

Lab Sample ID: 440-23246-11

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		09/14/12 17:00	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23246-12

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 17:30	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 17:30	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Dibromofluoromethane (Surr)	106		80 - 120		09/14/12 17:30	1			
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 17:30	1			
Toluene-d8 (Surr)	109		80 - 120		09/14/12 17:30	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 17:30	1
Toluene	ND		2.0		mg/m3			09/14/12 17:30	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 17:30	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 17:30	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 17:30	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 17:30	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 17:30	1
Toluene	ND		0.53		ppm v/v			09/14/12 17:30	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 17:30	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 17:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 17:30	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 17:30	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 17:30	1			
Dibromofluoromethane (Surr)	106		80 - 120		09/14/12 17:30	1			
Toluene-d8 (Surr)	109		80 - 120		09/14/12 17:30	1			

## Client Sample ID: P-2

Lab Sample ID: 440-23246-13

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 18:01	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 18:01	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: P-2

Lab Sample ID: 440-23246-13

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 120		09/14/12 18:01	1
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 18:01	1
Toluene-d8 (Surr)	110		80 - 120		09/14/12 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 18:01	1
Toluene	ND		2.0		mg/m3			09/14/12 18:01	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 18:01	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 18:01	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 18:01	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 18:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 18:01	1
Toluene	ND		0.53		ppm v/v			09/14/12 18:01	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 18:01	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 18:01	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 18:01	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 18:01	1
Dibromofluoromethane (Surr)	108		80 - 120		09/14/12 18:01	1
Toluene-d8 (Surr)	110		80 - 120		09/14/12 18:01	1

## Client Sample ID: SVE-3

Lab Sample ID: 440-23246-14

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 18:31	1
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		80 - 120		09/14/12 18:31	1
4-Bromofluorobenzene (Surr)	96		80 - 120		09/14/12 18:31	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 18:31	1
Toluene	ND		2.0		mg/m3			09/14/12 18:31	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 18:31	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 18:31	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 18:31	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 18:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 18:31	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: SVE-3

Lab Sample ID: 440-23246-14

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.53		ppm v/v			09/14/12 18:31	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 18:31	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 18:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 18:31	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120					09/14/12 18:31	1
Dibromofluoromethane (Surr)	112		80 - 120					09/14/12 18:31	1
Toluene-d8 (Surr)	107		80 - 120					09/14/12 18:31	1

## Client Sample ID: SVE-4

Lab Sample ID: 440-23246-15

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>140</b>		100		mg/m3			09/14/12 19:02	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>33</b>		24		ppm v/v			09/14/12 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		80 - 120					09/14/12 19:02	1
4-Bromofluorobenzene (Surr)	96		80 - 120					09/14/12 19:02	1
Toluene-d8 (Surr)	110		80 - 120					09/14/12 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 19:02	1
Toluene	ND		2.0		mg/m3			09/14/12 19:02	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 19:02	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 19:02	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 19:02	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 19:02	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 19:02	1
Toluene	ND		0.53		ppm v/v			09/14/12 19:02	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 19:02	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 19:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 19:02	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120					09/14/12 19:02	1
Dibromofluoromethane (Surr)	113		80 - 120					09/14/12 19:02	1
Toluene-d8 (Surr)	110		80 - 120					09/14/12 19:02	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23246-16**

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1500</b>		100		mg/m3			09/15/12 06:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>370</b>		24		ppm v/v			09/15/12 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		80 - 120		09/15/12 06:26	1
4-Bromofluorobenzene (Surr)	110		80 - 120		09/15/12 06:26	1
Toluene-d8 (Surr)	112		80 - 120		09/15/12 06:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.4</b>		2.0		mg/m3			09/15/12 06:26	1
Toluene	ND		2.0		mg/m3			09/15/12 06:26	1
<b>Ethylbenzene</b>	<b>6.7</b>		2.0		mg/m3			09/15/12 06:26	1
<b>Xylenes, Total</b>	<b>11</b>		6.0		mg/m3			09/15/12 06:26	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 06:26	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 06:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.74</b>		0.63		ppm v/v			09/15/12 06:26	1
Toluene	ND		0.53		ppm v/v			09/15/12 06:26	1
<b>Ethylbenzene</b>	<b>1.5</b>		0.46		ppm v/v			09/15/12 06:26	1
<b>Xylenes, Total</b>	<b>2.5</b>		1.4		ppm v/v			09/15/12 06:26	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 06:26	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		80 - 120		09/15/12 06:26	1
Dibromofluoromethane (Surr)	109		80 - 120		09/15/12 06:26	1
Toluene-d8 (Surr)	112		80 - 120		09/15/12 06:26	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23246-17**

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2200</b>		100		mg/m3			09/15/12 10:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>550</b>		24		ppm v/v			09/15/12 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 120		09/15/12 10:30	1
4-Bromofluorobenzene (Surr)	96		80 - 120		09/15/12 10:30	1
Toluene-d8 (Surr)	103		80 - 120		09/15/12 10:30	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23246-17**

**Date Collected: 09/12/12 11:00**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

**Sample Container: Tedlar Bag 1L**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.9</b>		2.0		mg/m3			09/15/12 10:30	1
Toluene	ND		2.0		mg/m3			09/15/12 10:30	1
<b>Ethylbenzene</b>	<b>13</b>		2.0		mg/m3			09/15/12 10:30	1
<b>Xylenes, Total</b>	<b>27</b>		6.0		mg/m3			09/15/12 10:30	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 10:30	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 10:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.91</b>		0.63		ppm v/v			09/15/12 10:30	1
Toluene	ND		0.53		ppm v/v			09/15/12 10:30	1
<b>Ethylbenzene</b>	<b>3.0</b>		0.46		ppm v/v			09/15/12 10:30	1
<b>Xylenes, Total</b>	<b>6.2</b>		1.4		ppm v/v			09/15/12 10:30	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 10:30	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		09/15/12 10:30	1
Dibromofluoromethane (Surr)	103		80 - 120		09/15/12 10:30	1
Toluene-d8 (Surr)	103		80 - 120		09/15/12 10:30	1



# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: EW-1

Date Collected: 09/12/12 09:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 11:24	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 11:24	CP	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/12/12 09:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 cc	10 mL	51931	09/14/12 12:25	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		5	5 cc	10 mL	51932	09/14/12 12:25	CP	TAL IRV

## Client Sample ID: P-2

Date Collected: 09/12/12 09:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 12:56	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 12:56	CP	TAL IRV

## Client Sample ID: SVE-3

Date Collected: 09/12/12 09:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 13:27	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 13:27	CP	TAL IRV

## Client Sample ID: SVE-4

Date Collected: 09/12/12 09:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 13:57	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 13:57	CP	TAL IRV

## Client Sample ID: SVE-5

Date Collected: 09/12/12 09:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52118	09/14/12 23:02	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52119	09/14/12 23:02	GK	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: SVE-5

Date Collected: 09/12/12 10:10

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 14:58	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 14:58	CP	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/12/12 10:10

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 15:28	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 15:28	CP	TAL IRV

## Client Sample ID: SVE-5

Date Collected: 09/12/12 12:15

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 15:59	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 15:59	CP	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/12/12 12:15

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 16:29	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 16:29	CP	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/12/12 11:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-11

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 17:00	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 17:00	CP	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/12/12 11:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23246-12

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 17:30	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 17:30	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Client Sample ID: P-2

Lab Sample ID: 440-23246-13

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 18:01	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 18:01	CP	TAL IRV

## Client Sample ID: SVE-3

Lab Sample ID: 440-23246-14

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 18:31	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 18:31	CP	TAL IRV

## Client Sample ID: SVE-4

Lab Sample ID: 440-23246-15

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51931	09/14/12 19:02	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51932	09/14/12 19:02	CP	TAL IRV

## Client Sample ID: SVE-5

Lab Sample ID: 440-23246-16

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52118	09/15/12 06:26	GK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52119	09/15/12 06:26	GK	TAL IRV

## Client Sample ID: INF-2

Lab Sample ID: 440-23246-17

Date Collected: 09/12/12 11:00

Matrix: Air

Date Received: 09/13/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 10:30	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 10:30	LB	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

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

**Lab Sample ID: MB 440-51931/7**

**Matrix: Air**

**Analysis Batch: 51931**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 09:49	1
Toluene	ND		2.0		mg/m3			09/14/12 09:49	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 09:49	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 09:49	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 09:49	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 09:49	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 09:49	1
Toluene	ND		0.53		ppm v/v			09/14/12 09:49	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 09:49	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 09:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 09:49	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 09:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		09/14/12 09:49	1
Dibromofluoromethane (Surr)	86		80 - 120		09/14/12 09:49	1
Toluene-d8 (Surr)	110		80 - 120		09/14/12 09:49	1

**Lab Sample ID: LCS 440-51931/5**

**Matrix: Air**

**Analysis Batch: 51931**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	28.3		mg/m3		113	70 - 120
Toluene	25.0	27.9		mg/m3		112	70 - 120
Ethylbenzene	25.0	25.5		mg/m3		102	75 - 125
m,p-Xylene	50.0	55.6		mg/m3		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	23.3		mg/m3		93	60 - 135
o-Xylene	25.0	26.7		mg/m3		107	75 - 125
tert-Butyl alcohol (TBA)	125	106		mg/m3		84	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	8.85		ppm v/v		113	70 - 120
Toluene	6.6	7.40		ppm v/v		112	70 - 120
Ethylbenzene	5.8	5.88		ppm v/v		102	75 - 125
m,p-Xylene	12	12.8		ppm v/v		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	6.47		ppm v/v		93	60 - 135
o-Xylene	5.8	6.15		ppm v/v		107	75 - 125
tert-Butyl alcohol (TBA)	41	34.8		ppm v/v		84	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120
Toluene-d8 (Surr)	110		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

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

**Lab Sample ID: 440-23246-1 DU**

**Matrix: Air**

**Analysis Batch: 51931**

**Client Sample ID: EW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	113		80 - 120

**Lab Sample ID: MB 440-52118/7**

**Matrix: Air**

**Analysis Batch: 52118**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		2.0		mg/m3			09/14/12 20:37	1
Toluene	ND		2.0		mg/m3			09/14/12 20:37	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 20:37	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 20:37	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 20:37	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 20:37	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.63		ppm v/v			09/14/12 20:37	1
Toluene	ND		0.53		ppm v/v			09/14/12 20:37	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 20:37	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 20:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 20:37	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 20:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		80 - 120		09/14/12 20:37	1
Dibromofluoromethane (Surr)	108		80 - 120		09/14/12 20:37	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 20:37	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

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

**Lab Sample ID: LCS 440-52118/5**

**Matrix: Air**

**Analysis Batch: 52118**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.4		mg/m3		98	70 - 120
Toluene	25.0	25.9		mg/m3		104	70 - 120
Ethylbenzene	25.0	27.7		mg/m3		111	75 - 125
m,p-Xylene	50.0	55.8		mg/m3		112	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	27.4		mg/m3		110	60 - 135
o-Xylene	25.0	27.8		mg/m3		111	75 - 125
tert-Butyl alcohol (TBA)	125	126		mg/m3		100	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	7.63		ppm v/v		98	70 - 120
Toluene	6.6	6.88		ppm v/v		104	70 - 120
Ethylbenzene	5.8	6.39		ppm v/v		111	75 - 125
m,p-Xylene	12	12.8		ppm v/v		112	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	7.59		ppm v/v		110	60 - 135
o-Xylene	5.8	6.41		ppm v/v		111	75 - 125
tert-Butyl alcohol (TBA)	41	41.4		ppm v/v		100	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		80 - 120
Dibromofluoromethane (Surr)	114		80 - 120
Toluene-d8 (Surr)	106		80 - 120

**Lab Sample ID: 440-23138-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52118**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	110		80 - 120
Toluene-d8 (Surr)	106		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

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

**Lab Sample ID: MB 440-52200/5**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 09:55	1
Toluene	ND		2.0		mg/m3			09/15/12 09:55	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 09:55	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 09:55	1
Toluene	ND		0.53		ppm v/v			09/15/12 09:55	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 09:55	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52200/6**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	20.9		mg/m3		84	70 - 120
Toluene	25.0	24.1		mg/m3		96	70 - 120
Ethylbenzene	25.0	26.2		mg/m3		105	75 - 125
m,p-Xylene	50.0	54.2		mg/m3		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	17.4		mg/m3		70	60 - 135
o-Xylene	25.0	25.8		mg/m3		103	75 - 125
tert-Butyl alcohol (TBA)	125	157		mg/m3		125	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	6.54		ppm v/v		84	70 - 120
Toluene	6.6	6.40		ppm v/v		96	70 - 120
Ethylbenzene	5.8	6.04		ppm v/v		105	75 - 125
m,p-Xylene	12	12.5		ppm v/v		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	4.82		ppm v/v		70	60 - 135
o-Xylene	5.8	5.93		ppm v/v		103	75 - 125
tert-Butyl alcohol (TBA)	41	51.6		ppm v/v		125	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	93		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

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

**Lab Sample ID: 440-23457-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-51932/7**

**Matrix: Air**

**Analysis Batch: 51932**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 09:49	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 09:49	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	86		80 - 120		09/14/12 09:49	1
4-Bromofluorobenzene (Surr)	94		80 - 120		09/14/12 09:49	1
Toluene-d8 (Surr)	110		80 - 120		09/14/12 09:49	1

**Lab Sample ID: LCS 440-51932/6**

**Matrix: Air**

**Analysis Batch: 51932**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	478		mg/m3		96	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	117		ppm v/v		96	55 - 130



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-51932/6**

**Matrix: Air**

**Analysis Batch: 51932**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	109		80 - 120

**Lab Sample ID: 440-23246-1 DU**

**Matrix: Air**

**Analysis Batch: 51932**

**Client Sample ID: EW-1**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

Surrogate	DU		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120
Toluene-d8 (Surr)	113		80 - 120

**Lab Sample ID: MB 440-52119/7**

**Matrix: Air**

**Analysis Batch: 52119**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 20:37	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 20:37	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	108		80 - 120		09/14/12 20:37	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/14/12 20:37	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 20:37	1

**Lab Sample ID: LCS 440-52119/6**

**Matrix: Air**

**Analysis Batch: 52119**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	500	513		mg/m3		103	55 - 130

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	120	126		ppm v/v		103	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-52119/6**

**Matrix: Air**

**Analysis Batch: 52119**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Toluene-d8 (Surr)	112		80 - 120

**Lab Sample ID: 440-23138-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52119**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3			20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v			20

Surrogate	DU		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	110		80 - 120
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	106		80 - 120

**Lab Sample ID: MB 440-52201/5**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 09:55	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 09:55	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52201/7**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	500	605		mg/m3		121	55 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	120	148		ppm v/v		121	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-52201/7**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<i>Surrogate</i>	<i>LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	96		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	94		80 - 120
<i>Toluene-d8 (Surr)</i>	93		80 - 120

**Lab Sample ID: 440-23457-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

<i>Surrogate</i>	<i>DU</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	102		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	91		80 - 120
<i>Toluene-d8 (Surr)</i>	96		80 - 120

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## GC/MS VOA

### Analysis Batch: 51931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23246-1	EW-1	Total/NA	Air	8260B	
440-23246-1 DU	EW-1	Total/NA	Air	8260B	
440-23246-2	EW-2	Total/NA	Air	8260B	
440-23246-3	P-2	Total/NA	Air	8260B	
440-23246-4	SVE-3	Total/NA	Air	8260B	
440-23246-5	SVE-4	Total/NA	Air	8260B	
440-23246-7	SVE-5	Total/NA	Air	8260B	
440-23246-8	INF-2	Total/NA	Air	8260B	
440-23246-9	SVE-5	Total/NA	Air	8260B	
440-23246-10	INF-2	Total/NA	Air	8260B	
440-23246-11	EW-1	Total/NA	Air	8260B	
440-23246-12	EW-2	Total/NA	Air	8260B	
440-23246-13	P-2	Total/NA	Air	8260B	
440-23246-14	SVE-3	Total/NA	Air	8260B	
440-23246-15	SVE-4	Total/NA	Air	8260B	
LCS 440-51931/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-51931/7	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 51932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23246-1	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-1 DU	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-2	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-3	P-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-4	SVE-3	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-5	SVE-4	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-7	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-8	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-9	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-10	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-11	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-12	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-13	P-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-14	SVE-3	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-15	SVE-4	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-51932/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-51932/7	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## GC/MS VOA (Continued)

### Analysis Batch: 52118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23138-A-3 DU	Duplicate	Total/NA	Air	8260B	
440-23246-6	SVE-5	Total/NA	Air	8260B	
440-23246-16	SVE-5	Total/NA	Air	8260B	
LCS 440-52118/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52118/7	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23138-A-3 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-6	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
440-23246-16	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52119/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52119/7	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

### Analysis Batch: 52200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23246-17	INF-2	Total/NA	Air	8260B	
440-23457-A-3 DU	Duplicate	Total/NA	Air	8260B	
LCS 440-52200/6	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52200/5	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23246-17	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-A-3 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52201/7	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52201/5	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

### 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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23246-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:** Peter Schaefer 240523

**INCIDENT # (ENV SERVICES):** 9 8 9 9 5 8 4 0

**PO #:** 2 4 0 5 2 3

**SAP #:** 1 3 5 7 8 2

CHECK IF NO INCIDENT # APPLIES

DATE: \_\_\_\_\_

PAGE: 1 of 1

**SAMPLING COMPANY:** Conestoga-Rovers & Associates

**LOG CODE:** CRAW

**SITE ADDRESS: Street and City:** 4212 First Street, Pleasanton

**State:** CA

**GLOBAL ID NO.:** RO0000360

**ADDRESS:** 5900 Hollis St, Suite A, Emeryville, CA 94608

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville

**PHONE NO.:** 510-420-0700

**E-MAIL:** emeryvilleedf@croworld.com

**CONSULTANT PROJECT NO.:** 240523-95-12.06

**PROJECT CONTACT (Hardcopy or PDF Report to):** Peter Schaefer

**TELEPHONE:** 510-420-3319

**FAX:** 510-420-9170

**E-MAIL:** pschaefer@croworld.com; jradon@croworld.com

**SAMPLER NAME(S) (Print):** McMaans / Radon

**LAB USE ONLY:** 440-23246

**TURNAROUND TIME (CALENDAR DAYS):**

STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS

RESULTS NEEDED ON WEEKEND

**REQUESTED ANALYSIS**

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@croworld.com;  
jradon@croworld.com; mlundberg@croworld.com;  
pschaefer@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgeable (8260B)	BTEX + MTBE + TBA (8260B)	CH4 by SCAQMD 25.3 (M)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER						
		EW-1	9/12/12		9:00	VAPOR									
EW-2	9/12/12	9:00	VAPOR				X		1	X	X			TEDLAR BAGS	
P-2	9/12/12	9:00	VAPOR				X		1	X	X			TEDLAR BAGS	
SVE-3	9/12/12	9:00	VAPOR				X		1	X	X			TEDLAR BAGS	
SVE-4	9/12/12	9:00	VAPOR				X		1	X	X			TEDLAR BAGS	
SVE-5	9/12/12	9:00	VAPOR				X		1	X	X			TEDLAR BAGS	
SVE-5	9/12/12	10:10	VAPOR				X		1	X	X			TEDLAR BAGS	
INF-2	9/12/12	10:10	VAPOR				X		1	X	X			TEDLAR BAG	
SVE-5	9/12/12	12:15	VAPOR				X		1	X	X			TEDLAR	
INF-2	9/12/12	12:15	VAPOR				X		1	X	X			TEDLAR	

Relinquished by: (Signature) <i>Jessie Maden</i>	Received by: (Signature) <i>Deborah Taylor</i>	Date: 9-12-12	Time: 12:58
Relinquished by: (Signature) <i>Deborah Taylor 9:12:12</i>	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>[Signature]</i>	Date: 9.13.12	Time: 1000

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9/19/2012





LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:**  
Peter Schaefer 240523

**PO #**  
2 4 0 5 2 3

**INCIDENT # (ENV SERVICES):** 9 8 9 9 5 8 4 0

**SAP #**

DATE: \_\_\_\_\_

PAGE: 1 of 1

**SAMPLING COMPANY:**  
Conestoga-Rovers & Associates

**LOG CODE:**  
CRAW

**ADDRESS:**  
5900 Hollis St, Suite A, Emeryville, CA 94608

**PROJECT CONTACT (Hardcopy or PDF Report to):**  
Peter Schaefer

**TELEPHONE:** 510-420-3319    **FAX:** 510-420-9170    **E-MAIL:** pschaefer@croworld.com; jradon@croworld.com

**SITE ADDRESS: Street and City:**  
4212 First Street, Pleasanton

**State:** CA

**GLOBAL ID NO.:** R00000360

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville    **PHONE NO.:** 510-420-0700

**E-MAIL:** emeryvilleedf@croworld.com    **CONSULTANT PROJECT NO.:** 240523-95-12.06

**SAMPLER NAME(S) (Print):** \_\_\_\_\_

**TURNAROUND TIME (CALENDAR DAYS):**  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

**REQUESTED ANALYSIS**

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**  
Copy of final report to Shell.Lab.Billing@croworld.com; jradon@croworld.com; mlundberg@croworld.com; pschaefer@croworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - GRO, Purgable (8260B)	BTEX + MTBE + TBA (8260B)	CH4 by SCAQMD 25.3 (M)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER						
EW-1	9/12/12	11:00	VAPOR				X		1	X	X			
EW-2							X		1	X	X			
P-2							X		1	X	X			
SVE-3							X		1	X	X			
SVE-4							X		1	X	X			
SVE-5							X		1	X	X			
INF-2							X		1	X	X			

LAB USE ONLY

page 1 of 3

Relinquished by: (Signature) <i>Jessica Jada</i>	Received by: (Signature) <i>Derald Taylor</i>	Date: 9-12-12	Time: 12:58
Relinquished by: (Signature) <i>Derald Taylor</i>	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>[Signature]</i>	Date: 9/13/12	Time: 10:00

05/2008 Revision

9/19/2012



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23246-1

**Login Number: 23246**

**List Number: 1**

**Creator: Kim, Will**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	McMains/Radon
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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 Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-22963-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/21/2012 9:51:07 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-22963-1	MW-1	Water	09/07/12 11:50	09/11/12 09:50
440-22963-2	MW-1B	Water	09/07/12 10:15	09/11/12 09:50
440-22963-3	MW-2	Water	09/07/12 11:35	09/11/12 09:50
440-22963-4	MW-3	Water	09/07/12 10:30	09/11/12 09:50
440-22963-5	MW-4	Water	09/07/12 11:55	09/11/12 09:50
440-22963-6	AS-1	Water	09/07/12 11:05	09/11/12 09:50
440-22963-7	EW-2	Water	09/07/12 11:16	09/11/12 09:50
440-22963-8	SVE-5	Water	09/07/12 11:30	09/11/12 09:50
440-22963-9	P-2	Water	09/07/12 10:35	09/11/12 09:50

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

---

## Job ID: 440-22963-1

---

Laboratory: TestAmerica Irvine

### Narrative

---

#### Job Narrative 440-22963-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/11/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.0° C.

#### GC/MS VOA

Method(s) 8260B/CA\_LUFTMS: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 52383 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B/CA\_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: MW-2 (440-22963-3), MW-4 (440-22963-5).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 52382 exceeded control limits for the following analytes: Benzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Due to the high concentration of Methyl-tert-butyl Ether, the matrix spike / matrix spike duplicate (MS/MSD) for batch 53208 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

#### HPLC

Method(s) 300.0: The following sample(s) was received outside of holding time: MW-1 (440-22963-1), MW-1B (440-22963-2), MW-2 (440-22963-3), MW-3 (440-22963-4), MW-4 (440-22963-5).

No other analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

**Client Sample ID: MW-1**  
**Date Collected: 09/07/12 11:50**  
**Date Received: 09/11/12 09:50**

**Lab Sample ID: 440-22963-1**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		5000		ug/L			09/17/12 16:38	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	98		80 - 120					09/17/12 16:38	100
4-Bromofluorobenzene (Surr)	93		80 - 120					09/17/12 16:38	100
Toluene-d8 (Surr)	112		80 - 120					09/17/12 16:38	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	50		ug/L			09/17/12 16:38	100
Toluene	ND		50		ug/L			09/17/12 16:38	100
Ethylbenzene	ND		50		ug/L			09/17/12 16:38	100
Xylenes, Total	ND		100		ug/L			09/17/12 16:38	100
Methyl-t-Butyl Ether (MTBE)	2700		50		ug/L			09/17/12 16:38	100
tert-Butyl alcohol (TBA)	ND		1000		ug/L			09/17/12 16:38	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	93		80 - 120					09/17/12 16:38	100
Dibromofluoromethane (Surr)	98		80 - 120					09/17/12 16:38	100
Toluene-d8 (Surr)	112		80 - 120					09/17/12 16:38	100

**Method: 300.0 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4500	H	220		ug/L			09/12/12 00:42	2
Sulfate	20000		500		ug/L			09/11/12 18:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	640000		4000		ug/L			09/13/12 11:29	1

**Client Sample ID: MW-1B**  
**Date Collected: 09/07/12 10:15**  
**Date Received: 09/11/12 09:50**

**Lab Sample ID: 440-22963-2**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/17/12 17:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	96		80 - 120					09/17/12 17:09	1
4-Bromofluorobenzene (Surr)	91		80 - 120					09/17/12 17:09	1
Toluene-d8 (Surr)	108		80 - 120					09/17/12 17:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	0.50		ug/L			09/17/12 17:09	1
Toluene	ND		0.50		ug/L			09/17/12 17:09	1
Ethylbenzene	ND		0.50		ug/L			09/17/12 17:09	1
Xylenes, Total	ND		1.0		ug/L			09/17/12 17:09	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/17/12 17:09	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/17/12 17:09	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Client Sample ID: MW-1B

Lab Sample ID: 440-22963-2

Date Collected: 09/07/12 10:15

Matrix: Water

Date Received: 09/11/12 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		09/17/12 17:09	1
Dibromofluoromethane (Surr)	96		80 - 120		09/17/12 17:09	1
Toluene-d8 (Surr)	108		80 - 120		09/17/12 17:09	1

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	19000	H	2200		ug/L			09/11/12 20:07	20
Sulfate	49000		10000		ug/L			09/11/12 20:07	20

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	260000		4000		ug/L			09/13/12 11:29	1

## Client Sample ID: MW-2

Lab Sample ID: 440-22963-3

Date Collected: 09/07/12 11:35

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2500		2500		ug/L			09/17/12 17:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 120		09/17/12 17:40	50
4-Bromofluorobenzene (Surr)	92		80 - 120		09/17/12 17:40	50
Toluene-d8 (Surr)	111		80 - 120		09/17/12 17:40	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	25		ug/L			09/17/12 17:40	50
Toluene	ND		25		ug/L			09/17/12 17:40	50
Ethylbenzene	ND		25		ug/L			09/17/12 17:40	50
Xylenes, Total	ND		50		ug/L			09/17/12 17:40	50
Methyl-t-Butyl Ether (MTBE)	2100		25		ug/L			09/17/12 17:40	50
tert-Butyl alcohol (TBA)	ND		500		ug/L			09/17/12 17:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/17/12 17:40	50
Dibromofluoromethane (Surr)	95		80 - 120		09/17/12 17:40	50
Toluene-d8 (Surr)	111		80 - 120		09/17/12 17:40	50

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	5800	H	2200		ug/L			09/11/12 20:44	20
Sulfate	80000		10000		ug/L			09/11/12 20:44	20

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	300000		4000		ug/L			09/13/12 11:29	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Client Sample ID: MW-3

Lab Sample ID: 440-22963-4

Date Collected: 09/07/12 10:30

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/17/12 18:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	95		80 - 120					09/17/12 18:11	1
4-Bromofluorobenzene (Surr)	91		80 - 120					09/17/12 18:11	1
Toluene-d8 (Surr)	108		80 - 120					09/17/12 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	0.50		ug/L			09/17/12 18:11	1
Toluene	ND		0.50		ug/L			09/17/12 18:11	1
Ethylbenzene	ND		0.50		ug/L			09/17/12 18:11	1
Xylenes, Total	ND		1.0		ug/L			09/17/12 18:11	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>1.6</b>		0.50		ug/L			09/17/12 18:11	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/17/12 18:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	91		80 - 120					09/17/12 18:11	1
Dibromofluoromethane (Surr)	95		80 - 120					09/17/12 18:11	1
Toluene-d8 (Surr)	108		80 - 120					09/17/12 18:11	1

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND	H	110		ug/L			09/11/12 21:02	1
<b>Sulfate</b>	<b>28000</b>		500		ug/L			09/11/12 21:02	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Alkalinity as CaCO3</b>	<b>270000</b>		4000		ug/L			09/13/12 11:29	1

## Client Sample ID: MW-4

Lab Sample ID: 440-22963-5

Date Collected: 09/07/12 11:55

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	<b>5900</b>		5000		ug/L			09/17/12 18:41	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	98		80 - 120					09/17/12 18:41	100
4-Bromofluorobenzene (Surr)	91		80 - 120					09/17/12 18:41	100
Toluene-d8 (Surr)	110		80 - 120					09/17/12 18:41	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*	50		ug/L			09/17/12 18:41	100
Toluene	ND		50		ug/L			09/17/12 18:41	100
Ethylbenzene	ND		50		ug/L			09/17/12 18:41	100
Xylenes, Total	ND		100		ug/L			09/17/12 18:41	100
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>5000</b>		50		ug/L			09/17/12 18:41	100
tert-Butyl alcohol (TBA)	ND		1000		ug/L			09/17/12 18:41	100

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Client Sample ID: MW-4

Lab Sample ID: 440-22963-5

Date Collected: 09/07/12 11:55

Matrix: Water

Date Received: 09/11/12 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		09/17/12 18:41	100
Dibromofluoromethane (Surr)	98		80 - 120		09/17/12 18:41	100
Toluene-d8 (Surr)	110		80 - 120		09/17/12 18:41	100

### Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4300	H	110		ug/L			09/11/12 21:38	1
Sulfate	71000		10000		ug/L			09/11/12 21:57	20

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	320000		4000		ug/L			09/13/12 11:29	1

## Client Sample ID: AS-1

Lab Sample ID: 440-22963-6

Date Collected: 09/07/12 11:05

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	8500		5000		ug/L			09/19/12 23:10	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		80 - 120		09/19/12 23:10	100
4-Bromofluorobenzene (Surr)	103		80 - 120		09/19/12 23:10	100
Toluene-d8 (Surr)	110		80 - 120		09/19/12 23:10	100

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		50		ug/L			09/19/12 23:10	100
Toluene	ND		50		ug/L			09/19/12 23:10	100
Ethylbenzene	ND		50		ug/L			09/19/12 23:10	100
Xylenes, Total	ND		100		ug/L			09/19/12 23:10	100
Methyl-t-Butyl Ether (MTBE)	10000		50		ug/L			09/19/12 23:10	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		09/19/12 23:10	100
Dibromofluoromethane (Surr)	91		80 - 120		09/19/12 23:10	100
Toluene-d8 (Surr)	110		80 - 120		09/19/12 23:10	100

## Client Sample ID: EW-2

Lab Sample ID: 440-22963-7

Date Collected: 09/07/12 11:16

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	3600		2500		ug/L			09/19/12 17:31	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120		09/19/12 17:31	50
4-Bromofluorobenzene (Surr)	106		80 - 120		09/19/12 17:31	50
Toluene-d8 (Surr)	110		80 - 120		09/19/12 17:31	50

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Client Sample ID: EW-2

Lab Sample ID: 440-22963-7

Date Collected: 09/07/12 11:16

Matrix: Water

Date Received: 09/11/12 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		25		ug/L			09/19/12 17:31	50
Toluene	ND		25		ug/L			09/19/12 17:31	50
Ethylbenzene	ND		25		ug/L			09/19/12 17:31	50
Xylenes, Total	ND		50		ug/L			09/19/12 17:31	50
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>4100</b>		25		ug/L			09/19/12 17:31	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120					09/19/12 17:31	50
Dibromofluoromethane (Surr)	104		80 - 120					09/19/12 17:31	50
Toluene-d8 (Surr)	110		80 - 120					09/19/12 17:31	50

## Client Sample ID: SVE-5

Lab Sample ID: 440-22963-8

Date Collected: 09/07/12 11:30

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>4200</b>		2500		ug/L			09/19/12 18:20	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 120					09/19/12 18:20	50
4-Bromofluorobenzene (Surr)	105		80 - 120					09/19/12 18:20	50
Toluene-d8 (Surr)	111		80 - 120					09/19/12 18:20	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		25		ug/L			09/19/12 18:20	50
Toluene	ND		25		ug/L			09/19/12 18:20	50
Ethylbenzene	ND		25		ug/L			09/19/12 18:20	50
Xylenes, Total	ND		50		ug/L			09/19/12 18:20	50
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>4900</b>		25		ug/L			09/19/12 18:20	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120					09/19/12 18:20	50
Dibromofluoromethane (Surr)	107		80 - 120					09/19/12 18:20	50
Toluene-d8 (Surr)	111		80 - 120					09/19/12 18:20	50

## Client Sample ID: P-2

Lab Sample ID: 440-22963-9

Date Collected: 09/07/12 10:35

Matrix: Water

Date Received: 09/11/12 09:50

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>7700</b>		1000		ug/L			09/19/12 18:48	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120					09/19/12 18:48	20
4-Bromofluorobenzene (Surr)	107		80 - 120					09/19/12 18:48	20
Toluene-d8 (Surr)	111		80 - 120					09/19/12 18:48	20

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

**Client Sample ID: P-2**

**Lab Sample ID: 440-22963-9**

**Date Collected: 09/07/12 10:35**

**Matrix: Water**

**Date Received: 09/11/12 09:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>580</b>		10		ug/L			09/19/12 18:48	20
Toluene	ND		10		ug/L			09/19/12 18:48	20
<b>Ethylbenzene</b>	<b>30</b>		10		ug/L			09/19/12 18:48	20
Xylenes, Total	ND		20		ug/L			09/19/12 18:48	20
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>1800</b>		10		ug/L			09/19/12 18:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120		09/19/12 18:48	20
Dibromofluoromethane (Surr)	104		80 - 120		09/19/12 18:48	20
Toluene-d8 (Surr)	111		80 - 120		09/19/12 18:48	20

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Client Sample ID: MW-1

Date Collected: 09/07/12 11:50

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	52382	09/17/12 16:38	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	10 mL	10 mL	52383	09/17/12 16:38	CP	TAL IRV
Total/NA	Analysis	300.0		2	1 mL	1.0 mL	51100	09/12/12 00:42	NN	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	51101	09/11/12 18:33	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	51747	09/13/12 11:29	NB	TAL IRV

## Client Sample ID: MW-1B

Date Collected: 09/07/12 10:15

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	52382	09/17/12 17:09	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	52383	09/17/12 17:09	CP	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	51100	09/11/12 20:07	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	51101	09/11/12 20:07	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	51747	09/13/12 11:29	NB	TAL IRV

## Client Sample ID: MW-2

Date Collected: 09/07/12 11:35

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	52382	09/17/12 17:40	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	52383	09/17/12 17:40	CP	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	51100	09/11/12 20:44	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	51101	09/11/12 20:44	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	51747	09/13/12 11:29	NB	TAL IRV

## Client Sample ID: MW-3

Date Collected: 09/07/12 10:30

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	52382	09/17/12 18:11	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	52383	09/17/12 18:11	CP	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	51100	09/11/12 21:02	NN	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	51101	09/11/12 21:02	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	51747	09/13/12 11:29	NB	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Client Sample ID: MW-4

Date Collected: 09/07/12 11:55

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	52382	09/17/12 18:41	CP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	10 mL	10 mL	52383	09/17/12 18:41	CP	TAL IRV
Total/NA	Analysis	300.0		1	1 mL	1.0 mL	51100	09/11/12 21:38	NN	TAL IRV
Total/NA	Analysis	300.0		20	1 mL	1.0 mL	51101	09/11/12 21:57	NN	TAL IRV
Total/NA	Analysis	SM 2320B		1	25 mL	25 mL	51747	09/13/12 11:29	NB	TAL IRV

## Client Sample ID: AS-1

Date Collected: 09/07/12 11:05

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	10 mL	10 mL	53208	09/19/12 23:10	YK	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		100	10 mL	10 mL	53209	09/19/12 23:10	YK	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/07/12 11:16

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	52976	09/19/12 17:31	TN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	52977	09/19/12 17:31	TN	TAL IRV

## Client Sample ID: SVE-5

Date Collected: 09/07/12 11:30

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	52976	09/19/12 18:20	TN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	52977	09/19/12 18:20	TN	TAL IRV

## Client Sample ID: P-2

Date Collected: 09/07/12 10:35

Date Received: 09/11/12 09:50

## Lab Sample ID: 440-22963-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	10 mL	10 mL	52976	09/19/12 18:48	TN	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		20	10 mL	10 mL	52977	09/19/12 18:48	TN	TAL IRV

### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

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

**Lab Sample ID: MB 440-52382/4**

**Matrix: Water**

**Analysis Batch: 52382**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			09/17/12 08:55	1
Toluene	ND		0.50		ug/L			09/17/12 08:55	1
Ethylbenzene	ND		0.50		ug/L			09/17/12 08:55	1
Xylenes, Total	ND		1.0		ug/L			09/17/12 08:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/17/12 08:55	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/17/12 08:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		09/17/12 08:55	1
Dibromofluoromethane (Surr)	98		80 - 120		09/17/12 08:55	1
Toluene-d8 (Surr)	110		80 - 120		09/17/12 08:55	1

**Lab Sample ID: LCS 440-52382/5**

**Matrix: Water**

**Analysis Batch: 52382**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	30.4	*	ug/L		122	70 - 120
Toluene	25.0	29.3		ug/L		117	70 - 120
Ethylbenzene	25.0	26.6		ug/L		106	75 - 125
m,p-Xylene	50.0	58.0		ug/L		116	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	26.8		ug/L		107	60 - 135
o-Xylene	25.0	28.4		ug/L		114	75 - 125
tert-Butyl alcohol (TBA)	125	106		ug/L		85	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	111		80 - 120

**Lab Sample ID: 440-23016-A-2 MS**

**Matrix: Water**

**Analysis Batch: 52382**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND	*	25.0	28.9		ug/L		115	65 - 125
Toluene	ND		25.0	28.6		ug/L		115	70 - 125
Ethylbenzene	ND		25.0	27.1		ug/L		107	65 - 130
m,p-Xylene	ND		50.0	59.1		ug/L		118	65 - 130
Methyl-t-Butyl Ether (MTBE)	5.6		25.0	29.5		ug/L		96	55 - 145
o-Xylene	ND		25.0	28.7		ug/L		115	65 - 125
tert-Butyl alcohol (TBA)	11		125	122		ug/L		88	65 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	111		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

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

**Lab Sample ID: 440-23016-A-2 MSD**

**Matrix: Water**

**Analysis Batch: 52382**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND	*	25.0	29.8		ug/L		119	65 - 125	3	20
Toluene	ND		25.0	29.2		ug/L		117	70 - 125	2	20
Ethylbenzene	ND		25.0	28.4		ug/L		112	65 - 130	5	20
m,p-Xylene	ND		50.0	61.7		ug/L		123	65 - 130	4	25
Methyl-t-Butyl Ether (MTBE)	5.6		25.0	28.4		ug/L		91	55 - 145	4	25
o-Xylene	ND		25.0	29.4		ug/L		118	65 - 125	3	20
tert-Butyl alcohol (TBA)	11		125	123		ug/L		90	65 - 140	1	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	107		80 - 120

**Lab Sample ID: MB 440-52976/4**

**Matrix: Water**

**Analysis Batch: 52976**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			09/19/12 08:40	1
Toluene	ND		0.50		ug/L			09/19/12 08:40	1
Ethylbenzene	ND		0.50		ug/L			09/19/12 08:40	1
Xylenes, Total	ND		1.0		ug/L			09/19/12 08:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/19/12 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		09/19/12 08:40	1
Dibromofluoromethane (Surr)	100		80 - 120		09/19/12 08:40	1
Toluene-d8 (Surr)	110		80 - 120		09/19/12 08:40	1

**Lab Sample ID: LCS 440-52976/5**

**Matrix: Water**

**Analysis Batch: 52976**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.8		ug/L		99	70 - 120
Toluene	25.0	27.6		ug/L		111	70 - 120
Ethylbenzene	25.0	27.5		ug/L		110	75 - 125
m,p-Xylene	50.0	56.1		ug/L		112	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	27.2		ug/L		109	60 - 135
o-Xylene	25.0	27.2		ug/L		109	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	110		80 - 120



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

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

**Lab Sample ID: 440-22881-B-4 MS**

**Matrix: Water**

**Analysis Batch: 52976**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		25.0	26.7		ug/L		107	65 - 125
Toluene	ND		25.0	29.8		ug/L		119	70 - 125
Ethylbenzene	ND		25.0	30.2		ug/L		121	65 - 130
m,p-Xylene	ND		50.0	61.8		ug/L		124	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.3		ug/L		109	55 - 145
o-Xylene	ND		25.0	29.6		ug/L		118	65 - 125

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	112		80 - 120

**Lab Sample ID: 440-22881-B-4 MSD**

**Matrix: Water**

**Analysis Batch: 52976**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	ND		25.0	25.7		ug/L		103	65 - 125	4	20
Toluene	ND		25.0	28.3		ug/L		113	70 - 125	5	20
Ethylbenzene	ND		25.0	28.9		ug/L		115	65 - 130	4	20
m,p-Xylene	ND		50.0	58.9		ug/L		118	65 - 130	5	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.2		ug/L		109	55 - 145	0	25
o-Xylene	ND		25.0	28.7		ug/L		115	65 - 125	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	112		80 - 120

**Lab Sample ID: MB 440-53208/5**

**Matrix: Water**

**Analysis Batch: 53208**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.50		ug/L			09/19/12 21:06	1
Toluene	ND		0.50		ug/L			09/19/12 21:06	1
Ethylbenzene	ND		0.50		ug/L			09/19/12 21:06	1
Xylenes, Total	ND		1.0		ug/L			09/19/12 21:06	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/19/12 21:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	103		80 - 120		09/19/12 21:06	1
Dibromofluoromethane (Surr)	94		80 - 120		09/19/12 21:06	1
Toluene-d8 (Surr)	109		80 - 120		09/19/12 21:06	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

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

**Lab Sample ID: LCS 440-53208/6**

**Matrix: Water**

**Analysis Batch: 53208**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.0		ug/L		100	70 - 120
Toluene	25.0	28.2		ug/L		113	70 - 120
Ethylbenzene	25.0	27.3		ug/L		109	75 - 125
m,p-Xylene	50.0	56.1		ug/L		112	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	25.1		ug/L		100	60 - 135
o-Xylene	25.0	27.5		ug/L		110	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	111		80 - 120

**Lab Sample ID: 440-23021-A-1 MS**

**Matrix: Water**

**Analysis Batch: 53208**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	23.7		ug/L		95	65 - 125
Toluene	ND		25.0	26.3		ug/L		105	70 - 125
Ethylbenzene	ND		25.0	25.9		ug/L		104	65 - 130
m,p-Xylene	ND		50.0	52.2		ug/L		104	65 - 130
Methyl-t-Butyl Ether (MTBE)	100		25.0	126	4	ug/L		105	55 - 145
o-Xylene	ND		25.0	25.5		ug/L		102	65 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	110		80 - 120

**Lab Sample ID: 440-23021-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 53208**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		25.0	25.2		ug/L		101	65 - 125	6	20
Toluene	ND		25.0	27.8		ug/L		111	70 - 125	6	20
Ethylbenzene	ND		25.0	28.0		ug/L		112	65 - 130	8	20
m,p-Xylene	ND		50.0	56.5		ug/L		113	65 - 130	8	25
Methyl-t-Butyl Ether (MTBE)	100		25.0	125	4	ug/L		98	55 - 145	1	25
o-Xylene	ND		25.0	27.5		ug/L		110	65 - 125	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	109		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-52383/4**

**Matrix: Water**

**Analysis Batch: 52383**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/17/12 08:55	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120		09/17/12 08:55	1
4-Bromofluorobenzene (Surr)	93		80 - 120		09/17/12 08:55	1
Toluene-d8 (Surr)	110		80 - 120		09/17/12 08:55	1

**Lab Sample ID: LCS 440-52383/6**

**Matrix: Water**

**Analysis Batch: 52383**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	568		ug/L		114	55 - 130

Surrogate	%Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	111		80 - 120

**Lab Sample ID: 440-23016-A-2 MS**

**Matrix: Water**

**Analysis Batch: 52383**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	4800	E	1730	3180	F	ug/L		-96	50 - 145

Surrogate	%Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	91		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Toluene-d8 (Surr)	111		80 - 120

**Lab Sample ID: 440-23016-A-2 MSD**

**Matrix: Water**

**Analysis Batch: 52383**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	4800	E	1730	2990	F	ug/L		-106	50 - 145	6	20

Surrogate	%Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	91		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Toluene-d8 (Surr)	107		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-52977/4**

**Matrix: Water**

**Analysis Batch: 52977**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/19/12 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 120		09/19/12 08:40	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/19/12 08:40	1
Toluene-d8 (Surr)	110		80 - 120		09/19/12 08:40	1

**Lab Sample ID: LCS 440-52977/6**

**Matrix: Water**

**Analysis Batch: 52977**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	452		ug/L		90	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120
Toluene-d8 (Surr)	113		80 - 120

**Lab Sample ID: 440-22881-B-4 MS**

**Matrix: Water**

**Analysis Batch: 52977**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	550		1730	1810		ug/L		73	50 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	111		80 - 120
Toluene-d8 (Surr)	112		80 - 120

**Lab Sample ID: 440-22881-B-4 MSD**

**Matrix: Water**

**Analysis Batch: 52977**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	550		1730	1840		ug/L		75	50 - 145	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	113		80 - 120
Toluene-d8 (Surr)	112		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-53209/5**

**Matrix: Water**

**Analysis Batch: 53209**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/19/12 21:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 120		09/19/12 21:06	1
4-Bromofluorobenzene (Surr)	103		80 - 120		09/19/12 21:06	1
Toluene-d8 (Surr)	109		80 - 120		09/19/12 21:06	1

**Lab Sample ID: LCS 440-53209/7**

**Matrix: Water**

**Analysis Batch: 53209**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	473		ug/L		95	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	107		80 - 120
Toluene-d8 (Surr)	111		80 - 120

**Lab Sample ID: 440-23021-A-1 MS**

**Matrix: Water**

**Analysis Batch: 53209**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	87		1730	1290		ug/L		70	50 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120
Toluene-d8 (Surr)	110		80 - 120

**Lab Sample ID: 440-23021-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 53209**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Volatile Fuel Hydrocarbons (C4-C12)	87		1730	1350		ug/L		73	50 - 145	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	108		80 - 120
Toluene-d8 (Surr)	109		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 440-51100/4**  
**Matrix: Water**  
**Analysis Batch: 51100**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		110		ug/L			09/11/12 10:26	1

**Lab Sample ID: LCS 440-51100/2**  
**Matrix: Water**  
**Analysis Batch: 51100**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1130	1090		ug/L		97	90 - 110

**Lab Sample ID: 440-22903-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 51100**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	100000		11300	111000	4	ug/L		69	80 - 120

**Lab Sample ID: 440-22903-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 51100**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	100000		11300	114000	4	ug/L		97	80 - 120	3	20

**Lab Sample ID: MB 440-51101/4**  
**Matrix: Water**  
**Analysis Batch: 51101**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		500		ug/L			09/11/12 10:26	1

**Lab Sample ID: LCS 440-51101/2**  
**Matrix: Water**  
**Analysis Batch: 51101**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10000	9480		ug/L		95	90 - 110

**Lab Sample ID: 440-22903-A-1 MS**  
**Matrix: Water**  
**Analysis Batch: 51101**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	120000		100000	211000		ug/L		90	80 - 120

**Lab Sample ID: 440-22903-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 51101**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	120000		100000	215000		ug/L		94	80 - 120	2	20

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-51747/1

Matrix: Water

Analysis Batch: 51747

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4000		ug/L			09/13/12 11:29	1

Lab Sample ID: LCS 440-51747/2

Matrix: Water

Analysis Batch: 51747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity as CaCO3	183000	176000		ug/L		96	90 - 110

Lab Sample ID: 440-23074-A-1 DU

Matrix: Water

Analysis Batch: 51747

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity as CaCO3	170000		172000		ug/L		0	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## GC/MS VOA

### Analysis Batch: 52382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22963-1	MW-1	Total/NA	Water	8260B	
440-22963-2	MW-1B	Total/NA	Water	8260B	
440-22963-3	MW-2	Total/NA	Water	8260B	
440-22963-4	MW-3	Total/NA	Water	8260B	
440-22963-5	MW-4	Total/NA	Water	8260B	
440-23016-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
440-23016-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-52382/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-52382/4	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 52383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22963-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-2	MW-1B	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-3	MW-2	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-4	MW-3	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-5	MW-4	Total/NA	Water	8260B/CA_LUFT MS	
440-23016-A-2 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-23016-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-52383/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-52383/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### Analysis Batch: 52976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22881-B-4 MS	Matrix Spike	Total/NA	Water	8260B	
440-22881-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-22963-7	EW-2	Total/NA	Water	8260B	
440-22963-8	SVE-5	Total/NA	Water	8260B	
440-22963-9	P-2	Total/NA	Water	8260B	
LCS 440-52976/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-52976/4	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 52977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22881-B-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-22881-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-7	EW-2	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-8	SVE-5	Total/NA	Water	8260B/CA_LUFT MS	
440-22963-9	P-2	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-52977/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## GC/MS VOA (Continued)

### Analysis Batch: 52977 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-52977/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

### Analysis Batch: 53208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22963-6	AS-1	Total/NA	Water	8260B	
440-23021-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-23021-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-53208/6	Lab Control Sample	Total/NA	Water	8260B	
MB 440-53208/5	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 53209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22963-6	AS-1	Total/NA	Water	8260B/CA_LUFT MS	
440-23021-A-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-23021-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-53209/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-53209/5	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

## HPLC/IC

### Analysis Batch: 51100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22903-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-22903-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-22963-1	MW-1	Total/NA	Water	300.0	
440-22963-2	MW-1B	Total/NA	Water	300.0	
440-22963-3	MW-2	Total/NA	Water	300.0	
440-22963-4	MW-3	Total/NA	Water	300.0	
440-22963-5	MW-4	Total/NA	Water	300.0	
LCS 440-51100/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-51100/4	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 51101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22903-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
440-22903-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
440-22963-1	MW-1	Total/NA	Water	300.0	
440-22963-2	MW-1B	Total/NA	Water	300.0	
440-22963-3	MW-2	Total/NA	Water	300.0	
440-22963-4	MW-3	Total/NA	Water	300.0	
440-22963-5	MW-4	Total/NA	Water	300.0	
LCS 440-51101/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-51101/4	Method Blank	Total/NA	Water	300.0	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## General Chemistry

### Analysis Batch: 51747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-22963-1	MW-1	Total/NA	Water	SM 2320B	
440-22963-2	MW-1B	Total/NA	Water	SM 2320B	
440-22963-3	MW-2	Total/NA	Water	SM 2320B	
440-22963-4	MW-3	Total/NA	Water	SM 2320B	
440-22963-5	MW-4	Total/NA	Water	SM 2320B	
440-23074-A-1 DU	Duplicate	Total/NA	Water	SM 2320B	
LCS 440-51747/2	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-51747/1	Method Blank	Total/NA	Water	SM 2320B	

# Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
H	Sample was prepped or analyzed beyond the specified holding time

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-22963-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

140621



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)  
 CALSCIENCE  
 SPL Houston  
 XENCO  
 TEST AMERICA (IRVINE)  
 OTHER

Please Check Appropriate Box:

ENV. SERVICES       MOTIVA RETAIL       SHELL RETAIL  
 MOTIVA SD&CM       CONSULTANT       LUBES  
 SHELL PIPELINE       OTHER

Print Bill To Contact Name: 240523 Peter Schaefer  
 INCIDENT # (ENV SERVICES): 9 8 9 9 5 8 4 0  
 PO # \_\_\_\_\_ SAP # \_\_\_\_\_  
 DATE: 9/7/12  
 PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services  
 LOG CODE: BTSS  
 ADDRESS: 1680 Rogers Avenue, San Jose, CA  
 PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King  
 TELEPHONE: (310) 885-4455 x 108      FAX: (310) 637-5802  
 E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 4212 First Street, Pleasanton, CA  
 STATE: CA      GLOBAL ID NO.: T0600101259  
 EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville, CA  
 PHONE NO.: 510-420-3343      E-MAIL: ShellEDF@CRAWorld.com  
 Shell-US-LabDataManagement@CRAWorld.com      CONSULTANT PROJECT NO.: 240523-95-11.04

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS  
 RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:  
 1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://craabeddupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAWorld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAWorld.com email folder.

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, ShellEDF@craworld.com, Shell-US-LabDataManagement@CRAWorld.com, and pschaefer@CRAWorld.com  
 Email invoice to Shell.Lab.Billing@craworld.com

TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015B)	Nitrate	Sulfate	Alkalinity	Carbonyl (8015B)	TEMPERATURE ON RECEIPT: 9.3° c/hrs
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LAB USE ONLY	SAMPLE ID					TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	ANALYSIS												Container PID Readings or Laboratory Notes		
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID				HCL	HNO3	H2SO4	NONE	OTHER		TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	BTEX (8260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) (8260B)	VOCs Full list (8260B)	Single Compound: (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015B)		Nitrate	Sulfate
WG	120907-DM1	090712	PH	MW-1		1150	WG	X			X													X	X	X	X	
WG			PH	MW-1B		1015	WG	X			X													X	X	X	X	
WG			DR	MW-2		1135	WG	X			X													X	X	X	X	
WG			PH	MW-3		1030	WG	X			X													X	X	X	X	
WG			DR	MW-4		1155	WG	X			X													X	X	X	X	
WG			DR	AS-1		1105	WG	X																				
WG			DR	EW-2		1116	WG	X																				
WG			DR	SUE-5		1130	WG	X																				
WG			DR	P-2		1035	WG	X																				

Relinquished by: (Signature) <i>D. Schaefer</i>	Received by: (Signature) <i>D. Schaefer</i> (Sample custodian)	Date: 9/7/12	Time: 1251
Relinquished by: (Signature) <i>D. Schaefer</i>	Received by: (Signature) <i>Karl Jan</i>	Date: 9/7/12	Time: 1251
Relinquished by: (Signature) <i>J. King</i>	Received by: (Signature) <i>J. King</i>	Date: 9/11/12	Time: 0950

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9/21/2012



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-22963-1

**Login Number: 22963**

**List Number: 1**

**Creator: Chavez, Elizabeth**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	D. Raynal/P. Harms
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23561-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/28/2012 5:43:05 PM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23561-1	EW-2	Water	09/14/12 08:00	09/15/12 10:55
440-23561-2	EW-1	Water	09/14/12 08:30	09/15/12 10:55
440-23561-3	EW-1	Water	09/14/12 17:00	09/15/12 10:55

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

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**Job ID: 440-23561-1**

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**Laboratory: TestAmerica Irvine**

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**Narrative**

**Job Narrative**  
**440-23561-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/15/2012 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

**GC/MS VOA**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

**Client Sample ID: EW-2**  
**Date Collected: 09/14/12 08:00**  
**Date Received: 09/15/12 10:55**

**Lab Sample ID: 440-23561-1**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>3800</b>		2500		ug/L			09/27/12 15:11	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120					09/27/12 15:11	50
<i>4-Bromofluorobenzene (Surr)</i>	93		80 - 120					09/27/12 15:11	50
<i>Toluene-d8 (Surr)</i>	102		80 - 120					09/27/12 15:11	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		25		ug/L			09/27/12 15:11	50
Ethylbenzene	ND		25		ug/L			09/27/12 15:11	50
Toluene	ND		25		ug/L			09/27/12 15:11	50
Xylenes, Total	ND		50		ug/L			09/27/12 15:11	50
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>3400</b>		25		ug/L			09/27/12 15:11	50
<b>tert-Butyl alcohol (TBA)</b>	<b>670</b>		500		ug/L			09/27/12 15:11	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>4-Bromofluorobenzene (Surr)</i>	93		80 - 120					09/27/12 15:11	50
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120					09/27/12 15:11	50
<i>Toluene-d8 (Surr)</i>	102		80 - 120					09/27/12 15:11	50

**Client Sample ID: EW-1**

**Date Collected: 09/14/12 08:30**  
**Date Received: 09/15/12 10:55**

**Lab Sample ID: 440-23561-2**  
**Matrix: Water**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/27/12 15:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Dibromofluoromethane (Surr)</i>	98		80 - 120					09/27/12 15:38	1
<i>4-Bromofluorobenzene (Surr)</i>	96		80 - 120					09/27/12 15:38	1
<i>Toluene-d8 (Surr)</i>	106		80 - 120					09/27/12 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			09/27/12 15:38	1
Ethylbenzene	ND		0.50		ug/L			09/27/12 15:38	1
Toluene	ND		0.50		ug/L			09/27/12 15:38	1
Xylenes, Total	ND		1.0		ug/L			09/27/12 15:38	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>3.9</b>		0.50		ug/L			09/27/12 15:38	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/27/12 15:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>4-Bromofluorobenzene (Surr)</i>	96		80 - 120					09/27/12 15:38	1
<i>Dibromofluoromethane (Surr)</i>	98		80 - 120					09/27/12 15:38	1
<i>Toluene-d8 (Surr)</i>	106		80 - 120					09/27/12 15:38	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23561-3**

**Date Collected: 09/14/12 17:00**

**Matrix: Water**

**Date Received: 09/15/12 10:55**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1600</b>		50		ug/L			09/27/12 16:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Dibromofluoromethane (Surr)</i>	98		80 - 120					09/27/12 16:04	1
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120					09/27/12 16:04	1
<i>Toluene-d8 (Surr)</i>	105		80 - 120					09/27/12 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>3.8</b>		0.50		ug/L			09/27/12 16:04	1
<b>Ethylbenzene</b>	<b>20</b>		0.50		ug/L			09/27/12 16:04	1
<b>Toluene</b>	<b>0.84</b>		0.50		ug/L			09/27/12 16:04	1
<b>Xylenes, Total</b>	<b>76</b>		1.0		ug/L			09/27/12 16:04	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>36</b>		0.50		ug/L			09/27/12 16:04	1
<b>tert-Butyl alcohol (TBA)</b>	<b>1200</b>		10		ug/L			09/27/12 16:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120					09/27/12 16:04	1
<i>Dibromofluoromethane (Surr)</i>	98		80 - 120					09/27/12 16:04	1
<i>Toluene-d8 (Surr)</i>	105		80 - 120					09/27/12 16:04	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

## Client Sample ID: EW-2

Date Collected: 09/14/12 08:00

Date Received: 09/15/12 10:55

## Lab Sample ID: 440-23561-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	55015	09/27/12 15:11	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		50	10 mL	10 mL	55016	09/27/12 15:11	SS	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 08:30

Date Received: 09/15/12 10:55

## Lab Sample ID: 440-23561-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	55015	09/27/12 15:38	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	55016	09/27/12 15:38	SS	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 17:00

Date Received: 09/15/12 10:55

## Lab Sample ID: 440-23561-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	55015	09/27/12 16:04	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	10 mL	10 mL	55016	09/27/12 16:04	SS	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

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

**Lab Sample ID: MB 440-55015/4**

**Matrix: Water**

**Analysis Batch: 55015**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			09/27/12 09:41	1
Ethylbenzene	ND		0.50		ug/L			09/27/12 09:41	1
Toluene	ND		0.50		ug/L			09/27/12 09:41	1
Xylenes, Total	ND		1.0		ug/L			09/27/12 09:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			09/27/12 09:41	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			09/27/12 09:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		09/27/12 09:41	1
Dibromofluoromethane (Surr)	93		80 - 120		09/27/12 09:41	1
Toluene-d8 (Surr)	102		80 - 120		09/27/12 09:41	1

**Lab Sample ID: LCS 440-55015/5**

**Matrix: Water**

**Analysis Batch: 55015**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.0		ug/L		100	70 - 120
Ethylbenzene	25.0	25.8		ug/L		103	75 - 125
Toluene	25.0	26.5		ug/L		106	70 - 120
Methyl-t-Butyl Ether (MTBE)	25.0	25.1		ug/L		100	60 - 135
m,p-Xylene	50.0	54.4		ug/L		109	75 - 125
o-Xylene	25.0	27.2		ug/L		109	75 - 125
tert-Butyl alcohol (TBA)	125	123		ug/L		98	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	95		80 - 120
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: 440-23931-F-1 MS**

**Matrix: Water**

**Analysis Batch: 55015**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	4.5		25.0	29.4		ug/L		100	65 - 125
Ethylbenzene	ND		25.0	25.7		ug/L		103	65 - 130
Toluene	ND		25.0	26.5		ug/L		104	70 - 125
Methyl-t-Butyl Ether (MTBE)	2.1		25.0	27.6		ug/L		102	55 - 145
m,p-Xylene	ND		50.0	53.6		ug/L		106	65 - 130
o-Xylene	0.84		25.0	27.2		ug/L		105	65 - 125
tert-Butyl alcohol (TBA)	110		125	245		ug/L		110	65 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	101		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

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

**Lab Sample ID: 440-23931-F-1 MSD**

**Matrix: Water**

**Analysis Batch: 55015**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	4.5		25.0	30.7		ug/L		105	65 - 125	5	20
Ethylbenzene	ND		25.0	26.4		ug/L		106	65 - 130	3	20
Toluene	ND		25.0	27.5		ug/L		108	70 - 125	4	20
Methyl-t-Butyl Ether (MTBE)	2.1		25.0	28.2		ug/L		104	55 - 145	2	25
m,p-Xylene	ND		50.0	55.6		ug/L		110	65 - 130	4	25
o-Xylene	0.84		25.0	27.9		ug/L		108	65 - 125	2	20
tert-Butyl alcohol (TBA)	110		125	247		ug/L		111	65 - 140	1	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	103		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-55016/4**

**Matrix: Water**

**Analysis Batch: 55016**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			09/27/12 09:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		80 - 120		09/27/12 09:41	1
4-Bromofluorobenzene (Surr)	93		80 - 120		09/27/12 09:41	1
Toluene-d8 (Surr)	102		80 - 120		09/27/12 09:41	1

**Lab Sample ID: LCS 440-55016/6**

**Matrix: Water**

**Analysis Batch: 55016**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	576		ug/L		115	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: 440-23931-F-1 MS**

**Matrix: Water**

**Analysis Batch: 55016**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	70		1730	1820		ug/L		101	50 - 145

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 440-23931-F-1 MS

Matrix: Water

Analysis Batch: 55016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: 440-23931-F-1 MSD

Matrix: Water

Analysis Batch: 55016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Volatile Fuel Hydrocarbons (C4-C12)	70		1730	1760		ug/L		98	50 - 145	3	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120
Toluene-d8 (Surr)	103		80 - 120



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

## GC/MS VOA

### Analysis Batch: 55015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23561-1	EW-2	Total/NA	Water	8260B	
440-23561-2	EW-1	Total/NA	Water	8260B	
440-23561-3	EW-1	Total/NA	Water	8260B	
440-23931-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-23931-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-55015/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-55015/4	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 55016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23561-1	EW-2	Total/NA	Water	8260B/CA_LUFT MS	
440-23561-2	EW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-23561-3	EW-1	Total/NA	Water	8260B/CA_LUFT MS	
440-23931-F-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT MS	
440-23931-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT MS	
LCS 440-55016/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
MB 440-55016/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

### 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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23561-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-13
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

440-23561  
140783

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES) 9 8 9 9 5 8 4 0

PO # 2 4 0 5 2 3

SAP # 1 3 5 7 8 2

DATE: \_\_\_\_\_

PAGE: 1 of 1

SAMPLING COMPANY: **Conestoga-Rovers & Associates**

LOG CODE: **CRAW**

ADDRESS: **5900 Hollis St, Suite A, Emeryville, CA 94608**

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer**

TELEPHONE: **510-420-3319** FAX: **510-420-9170** EMAIL: **pschaefer@croworld.com, inc@croworld.com**

SITE ADDRESS: Street and City: **4212 First Street, Pleasanton** State: **CA** GLOBAL ID NO.: **RC0000360**

EDF DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO.: **510-420-0700** EMAIL: **emeryville@croworld.com** CONSULTANT PROJECT NO.: **240523-95-12.06**

SAMPLER NAME(S) (P1118): **RADON/MCMAINS**

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT °C	20.2
Container PID Readings or Laboratory Notes	

PAGE 14 OF 15	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					No. of CONT.	REQUESTED ANALYSIS													TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes									
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (TO-3)	Isopropyl Alcohol (TO-15)	BTEX (8260B)	BTEX + MTBE (TO-15)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)			Methanol (8015M)	O2 by ASTM D Method 1946 (M)	Argon by ASTM D Method 1946 (M)	CO2 by ASTM D Method 1946 (M)	CH4 by ASTM D Method 1946 (M)				
		EW-2	9/14/12		8:00	Water	X				X		6	X	X				X															
EW-1	9/14/12	8:30	Water	X			X		6	X	X				X																		↓	
EW1	9/14/12	17:00	Water	X			X		6	X	X				X																			

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/14/12	Time: 17:00
Relinquished by: (Signature)	Received by: (Signature)	Date: 9/14/12	Time: 17:20
Relinquished by: (Signature)	Received by: (Signature)	Date: 9/14/12	Time: 18:35

9/28/2012

05/2006 Revision  
6.90

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23561-1

**Login Number: 23561**

**List Number: 1**

**Creator: Robb, Kathleen**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Radon McMains
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	Did not receive ambers for the diesels.
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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	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 Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23134-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/21/2012 10:05:14 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

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Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23134-1	EW-1 2012-09-11 7:30	Air	09/11/12 07:30	09/12/12 10:10
440-23134-2	P-2 2012-09-11 7:30	Air	09/11/12 07:30	09/12/12 10:10
440-23134-3	SVE-3 2012-09-11 7:30	Air	09/11/12 07:30	09/12/12 10:10
440-23134-4	SVE-4 2012-09-11 7:30	Air	09/11/12 07:30	09/12/12 10:10
440-23134-5	SVE-5 2012-09-11 7:30	Air	09/11/12 07:30	09/12/12 10:10
440-23134-8	INF-2 2012-09-11 12:45	Air	09/11/12 12:45	09/12/12 10:10

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## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

---

**Job ID: 440-23134-1**

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**Laboratory: TestAmerica Irvine**

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### Narrative

**Job Narrative**  
**440-23134-1**

### Comments

No additional comments.

### Receipt

The samples were received on 9/12/2012 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

### GC/MS VOA

No analytical or quality issues were noted.

### VOA Prep

No analytical or quality issues were noted.

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# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

**Client Sample ID: EW-1 2012-09-11 7:30**

**Lab Sample ID: 440-23134-1**

**Date Collected: 09/11/12 07:30**

**Matrix: Air**

**Date Received: 09/12/12 10:10**

**Sample Container: Tedlar Bag 1L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/13/12 11:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/13/12 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		09/13/12 11:31	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/13/12 11:31	1
Toluene-d8 (Surr)	105		80 - 120		09/13/12 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/13/12 11:31	1
Ethylbenzene	ND		2.0		mg/m3			09/13/12 11:31	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 11:31	1
Toluene	ND		2.0		mg/m3			09/13/12 11:31	1
Xylenes, Total	ND		6.0		mg/m3			09/13/12 11:31	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 11:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/13/12 11:31	1
Ethylbenzene	ND		0.46		ppm v/v			09/13/12 11:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 11:31	1
Toluene	ND		0.53		ppm v/v			09/13/12 11:31	1
Xylenes, Total	ND		1.4		ppm v/v			09/13/12 11:31	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 11:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		09/13/12 11:31	1
Dibromofluoromethane (Surr)	101		80 - 120		09/13/12 11:31	1
Toluene-d8 (Surr)	105		80 - 120		09/13/12 11:31	1

**Client Sample ID: P-2 2012-09-11 7:30**

**Lab Sample ID: 440-23134-2**

**Date Collected: 09/11/12 07:30**

**Matrix: Air**

**Date Received: 09/12/12 10:10**

**Sample Container: Tedlar Bag 1L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2400		100		mg/m3			09/13/12 12:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	580		24		ppm v/v			09/13/12 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120		09/13/12 12:24	1
4-Bromofluorobenzene (Surr)	109		80 - 120		09/13/12 12:24	1
Toluene-d8 (Surr)	110		80 - 120		09/13/12 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/13/12 12:24	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

**Client Sample ID: P-2 2012-09-11 7:30**

**Lab Sample ID: 440-23134-2**

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		2.0		mg/m3			09/13/12 12:24	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 12:24	1
Toluene	ND		2.0		mg/m3			09/13/12 12:24	1
Xylenes, Total	ND		6.0		mg/m3			09/13/12 12:24	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 12:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/13/12 12:24	1
Ethylbenzene	ND		0.46		ppm v/v			09/13/12 12:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 12:24	1
Toluene	ND		0.53		ppm v/v			09/13/12 12:24	1
Xylenes, Total	ND		1.4		ppm v/v			09/13/12 12:24	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		80 - 120		09/13/12 12:24	1
Dibromofluoromethane (Surr)	97		80 - 120		09/13/12 12:24	1
Toluene-d8 (Surr)	110		80 - 120		09/13/12 12:24	1

**Client Sample ID: SVE-3 2012-09-11 7:30**

**Lab Sample ID: 440-23134-3**

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>700</b>		100		mg/m3			09/13/12 12:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>170</b>		24		ppm v/v			09/13/12 12:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		09/13/12 12:50	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/13/12 12:50	1
Toluene-d8 (Surr)	106		80 - 120		09/13/12 12:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/13/12 12:50	1
Ethylbenzene	ND		2.0		mg/m3			09/13/12 12:50	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 12:50	1
Toluene	ND		2.0		mg/m3			09/13/12 12:50	1
Xylenes, Total	ND		6.0		mg/m3			09/13/12 12:50	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 12:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/13/12 12:50	1
Ethylbenzene	ND		0.46		ppm v/v			09/13/12 12:50	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 12:50	1
Toluene	ND		0.53		ppm v/v			09/13/12 12:50	1
Xylenes, Total	ND		1.4		ppm v/v			09/13/12 12:50	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

**Client Sample ID: SVE-3 2012-09-11 7:30**

**Lab Sample ID: 440-23134-3**

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		09/13/12 12:50	1
Dibromofluoromethane (Surr)	99		80 - 120		09/13/12 12:50	1
Toluene-d8 (Surr)	106		80 - 120		09/13/12 12:50	1

**Client Sample ID: SVE-4 2012-09-11 7:30**

**Lab Sample ID: 440-23134-4**

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/13/12 13:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/13/12 13:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Dibromofluoromethane (Surr)	102		80 - 120		09/13/12 13:17	1			
4-Bromofluorobenzene (Surr)	100		80 - 120		09/13/12 13:17	1			
Toluene-d8 (Surr)	102		80 - 120		09/13/12 13:17	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/13/12 13:17	1
Ethylbenzene	ND		2.0		mg/m3			09/13/12 13:17	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 13:17	1
Toluene	ND		2.0		mg/m3			09/13/12 13:17	1
Xylenes, Total	ND		6.0		mg/m3			09/13/12 13:17	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 13:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/13/12 13:17	1
Ethylbenzene	ND		0.46		ppm v/v			09/13/12 13:17	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 13:17	1
Toluene	ND		0.53		ppm v/v			09/13/12 13:17	1
Xylenes, Total	ND		1.4		ppm v/v			09/13/12 13:17	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 13:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	100		80 - 120		09/13/12 13:17	1			
Dibromofluoromethane (Surr)	102		80 - 120		09/13/12 13:17	1			
Toluene-d8 (Surr)	102		80 - 120		09/13/12 13:17	1			

**Client Sample ID: SVE-5 2012-09-11 7:30**

**Lab Sample ID: 440-23134-5**

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/13/12 13:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/13/12 13:43	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

**Client Sample ID: SVE-5 2012-09-11 7:30**

**Lab Sample ID: 440-23134-5**

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 120		09/13/12 13:43	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/13/12 13:43	1
Toluene-d8 (Surr)	107		80 - 120		09/13/12 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/13/12 13:43	1
Ethylbenzene	ND		2.0		mg/m3			09/13/12 13:43	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 13:43	1
Toluene	ND		2.0		mg/m3			09/13/12 13:43	1
Xylenes, Total	ND		6.0		mg/m3			09/13/12 13:43	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 13:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/13/12 13:43	1
Ethylbenzene	ND		0.46		ppm v/v			09/13/12 13:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 13:43	1
Toluene	ND		0.53		ppm v/v			09/13/12 13:43	1
Xylenes, Total	ND		1.4		ppm v/v			09/13/12 13:43	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		09/13/12 13:43	1
Dibromofluoromethane (Surr)	105		80 - 120		09/13/12 13:43	1
Toluene-d8 (Surr)	107		80 - 120		09/13/12 13:43	1

**Client Sample ID: INF-2 2012-09-11 12:45**

**Lab Sample ID: 440-23134-8**

Date Collected: 09/11/12 12:45

Matrix: Air

Date Received: 09/12/12 10:10

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2900		100		mg/m3			09/13/12 15:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	710		24		ppm v/v			09/13/12 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120		09/13/12 15:03	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/13/12 15:03	1
Toluene-d8 (Surr)	106		80 - 120		09/13/12 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.4		2.0		mg/m3			09/13/12 15:03	1
Ethylbenzene	16		2.0		mg/m3			09/13/12 15:03	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 15:03	1
Toluene	ND		2.0		mg/m3			09/13/12 15:03	1
Xylenes, Total	27		6.0		mg/m3			09/13/12 15:03	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 15:03	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

**Client Sample ID: INF-2 2012-09-11 12:45**

**Lab Sample ID: 440-23134-8**

**Date Collected: 09/11/12 12:45**

**Matrix: Air**

**Date Received: 09/12/12 10:10**

**Sample Container: Tedlar Bag 1L**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.75		0.63		ppm v/v			09/13/12 15:03	1
Ethylbenzene	3.6		0.46		ppm v/v			09/13/12 15:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 15:03	1
Toluene	ND		0.53		ppm v/v			09/13/12 15:03	1
Xylenes, Total	6.3		1.4		ppm v/v			09/13/12 15:03	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120					09/13/12 15:03	1
Dibromofluoromethane (Surr)	98		80 - 120					09/13/12 15:03	1
Toluene-d8 (Surr)	106		80 - 120					09/13/12 15:03	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

## Client Sample ID: EW-1 2012-09-11 7:30

Lab Sample ID: 440-23134-1

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51645	09/13/12 11:31	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51646	09/13/12 11:31	LB	TAL IRV

## Client Sample ID: P-2 2012-09-11 7:30

Lab Sample ID: 440-23134-2

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51645	09/13/12 12:24	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51646	09/13/12 12:24	LB	TAL IRV

## Client Sample ID: SVE-3 2012-09-11 7:30

Lab Sample ID: 440-23134-3

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51645	09/13/12 12:50	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51646	09/13/12 12:50	LB	TAL IRV

## Client Sample ID: SVE-4 2012-09-11 7:30

Lab Sample ID: 440-23134-4

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51645	09/13/12 13:17	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51646	09/13/12 13:17	LB	TAL IRV

## Client Sample ID: SVE-5 2012-09-11 7:30

Lab Sample ID: 440-23134-5

Date Collected: 09/11/12 07:30

Matrix: Air

Date Received: 09/12/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51645	09/13/12 13:43	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51646	09/13/12 13:43	LB	TAL IRV

## Client Sample ID: INF-2 2012-09-11 12:45

Lab Sample ID: 440-23134-8

Date Collected: 09/11/12 12:45

Matrix: Air

Date Received: 09/12/12 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51645	09/13/12 15:03	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51646	09/13/12 15:03	LB	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

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

**Lab Sample ID: MB 440-51645/7**

**Matrix: Air**

**Analysis Batch: 51645**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/13/12 10:44	1
Ethylbenzene	ND		2.0		mg/m3			09/13/12 10:44	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/13/12 10:44	1
Toluene	ND		2.0		mg/m3			09/13/12 10:44	1
Xylenes, Total	ND		6.0		mg/m3			09/13/12 10:44	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/13/12 10:44	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/13/12 10:44	1
Ethylbenzene	ND		0.46		ppm v/v			09/13/12 10:44	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/13/12 10:44	1
Toluene	ND		0.53		ppm v/v			09/13/12 10:44	1
Xylenes, Total	ND		1.4		ppm v/v			09/13/12 10:44	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/13/12 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		09/13/12 10:44	1
Dibromofluoromethane (Surr)	99		80 - 120		09/13/12 10:44	1
Toluene-d8 (Surr)	102		80 - 120		09/13/12 10:44	1

**Lab Sample ID: LCS 440-51645/5**

**Matrix: Air**

**Analysis Batch: 51645**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.3		mg/m3		105	70 - 120
Ethylbenzene	25.0	28.9		mg/m3		116	75 - 125
m,p-Xylene	50.0	57.3		mg/m3		115	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	18.4		mg/m3		73	60 - 135
o-Xylene	25.0	28.5		mg/m3		114	75 - 125
Toluene	25.0	28.5		mg/m3		114	70 - 120
tert-Butyl alcohol (TBA)	125	151		mg/m3		121	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	8.22		ppm v/v		105	70 - 120
Ethylbenzene	5.8	6.66		ppm v/v		116	75 - 125
m,p-Xylene	12	13.2		ppm v/v		115	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	5.10		ppm v/v		73	60 - 135
o-Xylene	5.8	6.56		ppm v/v		114	75 - 125
Toluene	6.6	7.56		ppm v/v		114	70 - 120
tert-Butyl alcohol (TBA)	41	49.9		ppm v/v		121	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	106		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

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

**Lab Sample ID: 440-23134-1 DU**

**Matrix: Air**

**Analysis Batch: 51645**

**Client Sample ID: EW-1 2012-09-11 7:30**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
Toluene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
Toluene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	105		80 - 120
Toluene-d8 (Surr)	102		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-51646/7**

**Matrix: Air**

**Analysis Batch: 51646**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/13/12 10:44	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/13/12 10:44	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		09/13/12 10:44	1
4-Bromofluorobenzene (Surr)	98		80 - 120		09/13/12 10:44	1
Toluene-d8 (Surr)	102		80 - 120		09/13/12 10:44	1

**Lab Sample ID: LCS 440-51646/6**

**Matrix: Air**

**Analysis Batch: 51646**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	487		mg/m3		97	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	119		ppm v/v		97	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-51646/6**

**Matrix: Air**

**Analysis Batch: 51646**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<i>Surrogate</i>	<i>LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	95		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	101		80 - 120
<i>Toluene-d8 (Surr)</i>	107		80 - 120

**Lab Sample ID: 440-23134-1 DU**

**Matrix: Air**

**Analysis Batch: 51646**

**Client Sample ID: EW-1 2012-09-11 7:30**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

<i>Surrogate</i>	<i>DU</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	105		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	107		80 - 120
<i>Toluene-d8 (Surr)</i>	102		80 - 120

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

## GC/MS VOA

### Analysis Batch: 51645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23134-1	EW-1 2012-09-11 7:30	Total/NA	Air	8260B	
440-23134-1 DU	EW-1 2012-09-11 7:30	Total/NA	Air	8260B	
440-23134-2	P-2 2012-09-11 7:30	Total/NA	Air	8260B	
440-23134-3	SVE-3 2012-09-11 7:30	Total/NA	Air	8260B	
440-23134-4	SVE-4 2012-09-11 7:30	Total/NA	Air	8260B	
440-23134-5	SVE-5 2012-09-11 7:30	Total/NA	Air	8260B	
440-23134-8	INF-2 2012-09-11 12:45	Total/NA	Air	8260B	
LCS 440-51645/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-51645/7	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 51646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23134-1	EW-1 2012-09-11 7:30	Total/NA	Air	8260B/CA_LUFT MS	
440-23134-1 DU	EW-1 2012-09-11 7:30	Total/NA	Air	8260B/CA_LUFT MS	
440-23134-2	P-2 2012-09-11 7:30	Total/NA	Air	8260B/CA_LUFT MS	
440-23134-3	SVE-3 2012-09-11 7:30	Total/NA	Air	8260B/CA_LUFT MS	
440-23134-4	SVE-4 2012-09-11 7:30	Total/NA	Air	8260B/CA_LUFT MS	
440-23134-5	SVE-5 2012-09-11 7:30	Total/NA	Air	8260B/CA_LUFT MS	
440-23134-8	INF-2 2012-09-11 12:45	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-51646/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-51646/7	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

### 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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23134-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- KIFF ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

140674

Please Check Appropriate Box:			Print Bill To Contact Name:			INCIDENT # (ENV SERVICES)			<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES				
<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL	Tom Magney - 240600-95-			9	7	0	9	3	3	9	2
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES	PO #			SAP #			DATE: 9-11-12				
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER								PAGE: 1 of 1				

SAMPLING COMPANY: <b>Conestoga-Rovers &amp; Associates</b>		LOG CODE: <b>CRAW</b>	SITE ADDRESS: Street and City <b>4212 First St, Pleasanton</b>		State <b>CA</b>	GLOBAL ID NO.: <b>T0611500034</b>	
ADDRESS: <b>5900 Hollis Street, Suite A, Emeryville, California 94608</b>		EDF DELIVERABLE TO (Name, Company, Office Location): <b>Brenda Carter, CRA, Emeryville</b>		PHONE NO.: <b>510-420-0700</b>	E-MAIL: <b>cemeryvilleedf@craworld.com</b>	CONSULTANT PROJECT NO.: <b>240523-95</b>	
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Jessica Radon</b>		SAMPLER NAME(S) (Print): <b>McMANS - RADON</b>		LAB USE ONLY: <b>140674</b>			
TELEPHONE: <b>510-420-3308</b>	FAX: <b>510-420-9170</b>	E-MAIL: <b>jradon@craworld.com</b>					

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  
 5 DAYS  
 3 DAYS  
 2 DAYS  
 24 HOURS  
 RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  
 UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :  
 Report results in PPMV. Use duplicate only if original is depleted.

cc reports to: pschaefer@craworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE						NO. OF CONT.	TPHg (8260 B)	Benzene (8260B)	Toluene (8260B)	Ethylbenzene (8260B)	Total xylenes (8260B)	MTBE (8260B)	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER										
	EW-1 2012-09-11 7:30	9-11-12	7:30	vapor				X			1	x	x	x	x	x		tedlar bag	
	P-2 2012-09-11 7:30	9-11-12	7:30	vapor				X			1	x	x	x	x	x		"	
	SVE-3 2012-09-11 7:30	9-11-12	7:30	vapor				X			1	x	x	x	x	x		"	
	SVE-4 2012-09-11 7:30	9-11-12	7:30	vapor				X			1	x	x	x	x	x		"	
	SVE-5 2012-09-11 7:30	9-11-12	7:30	vapor				X			1	x	x	x	x	x		"	
	INF-1 SVE-5 2012-09-11 8:45	9-11-12	8:45	vapor				X			1	x	x	x	x	x		"	
	INF-1 SVE-5 2012-09-11 9:15	9-11-12	9:15	vapor				X			1	x	x	x	x	x		"	
	INF-2 2012-09-11 12:45	9-11-12	12:45	vapor				X			1	x	x	x	x	x		"	

Relinquished by: (Signature) 	Received by: (Signature) 	Date: 9-11-12	Time: 1600
Relinquished by: (Signature) 	Received by: (Signature) 	Date: 9-11-12	Time: 1600
Relinquished by: (Signature) 	Received by: (Signature) Tim Soderstrom	Date: 9/12/12	Time: 1010

Temp 30°

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9/21/2012



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23134-1

**Login Number: 23134**

**List Number: 1**

**Creator: Perez, Angel**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
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	McMains-Rivon
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23245-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/21/2012 10:12:38 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23245-1	EW-1	Air	09/11/12 19:00	09/13/12 10:00
440-23245-2	P-2	Air	09/11/12 19:00	09/13/12 10:00
440-23245-3	SVE-3	Air	09/11/12 19:00	09/13/12 10:00
440-23245-4	SVE-4	Air	09/11/12 19:00	09/13/12 10:00
440-23245-5	SVE-5	Air	09/11/12 19:00	09/13/12 10:00
440-23245-6	INF-2	Air	09/11/12 19:00	09/13/12 10:00
440-23245-7	INF-1 2012-09-11 16:15	Air	09/11/12 16:15	09/13/12 10:00

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

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**Job ID: 440-23245-1**

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**Laboratory: TestAmerica Irvine**

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**Narrative**

**Job Narrative**  
**440-23245-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/13/2012 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

**GC/MS VOA**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.

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# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23245-1**

**Date Collected: 09/11/12 19:00**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

**Sample Container: Air Sample Bag - 1 L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 14:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120		09/14/12 14:22	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 14:22	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 14:22	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 14:22	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 14:22	1
Toluene	ND		2.0		mg/m3			09/14/12 14:22	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 14:22	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 14:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 14:22	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 14:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 14:22	1
Toluene	ND		0.53		ppm v/v			09/14/12 14:22	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 14:22	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 14:22	1
Dibromofluoromethane (Surr)	104		80 - 120		09/14/12 14:22	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 14:22	1

**Client Sample ID: P-2**

**Lab Sample ID: 440-23245-2**

**Date Collected: 09/11/12 19:00**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

**Sample Container: Air Sample Bag - 1 L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 13:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 120		09/14/12 13:56	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/14/12 13:56	1
Toluene-d8 (Surr)	102		80 - 120		09/14/12 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 13:56	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 13:56	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Client Sample ID: P-2

Lab Sample ID: 440-23245-2

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 13:56	1
Toluene	ND		2.0		mg/m3			09/14/12 13:56	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 13:56	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 13:56	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 13:56	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 13:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 13:56	1
Toluene	ND		0.53		ppm v/v			09/14/12 13:56	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 13:56	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 13:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120					09/14/12 13:56	1
Dibromofluoromethane (Surr)	100		80 - 120					09/14/12 13:56	1
Toluene-d8 (Surr)	102		80 - 120					09/14/12 13:56	1

## Client Sample ID: SVE-3

Lab Sample ID: 440-23245-3

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 13:29	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120					09/14/12 13:29	1
4-Bromofluorobenzene (Surr)	105		80 - 120					09/14/12 13:29	1
Toluene-d8 (Surr)	103		80 - 120					09/14/12 13:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 13:29	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 13:29	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 13:29	1
Toluene	ND		2.0		mg/m3			09/14/12 13:29	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 13:29	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 13:29	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 13:29	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 13:29	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 13:29	1
Toluene	ND		0.53		ppm v/v			09/14/12 13:29	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 13:29	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 13:29	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Client Sample ID: SVE-3

Lab Sample ID: 440-23245-3

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		09/14/12 13:29	1
Dibromofluoromethane (Surr)	101		80 - 120		09/14/12 13:29	1
Toluene-d8 (Surr)	103		80 - 120		09/14/12 13:29	1

## Client Sample ID: SVE-4

Lab Sample ID: 440-23245-4

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	790		100		mg/m3			09/14/12 13:03	1
Volatile Fuel Hydrocarbons (C4-C12)	190		24		ppm v/v			09/14/12 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120		09/14/12 13:03	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 13:03	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 13:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 13:03	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 13:03	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 13:03	1
Toluene	ND		2.0		mg/m3			09/14/12 13:03	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 13:03	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 13:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 13:03	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 13:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 13:03	1
Toluene	ND		0.53		ppm v/v			09/14/12 13:03	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 13:03	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		09/14/12 13:03	1
Dibromofluoromethane (Surr)	98		80 - 120		09/14/12 13:03	1
Toluene-d8 (Surr)	107		80 - 120		09/14/12 13:03	1

## Client Sample ID: SVE-5

Lab Sample ID: 440-23245-5

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	4300		100		mg/m3			09/14/12 12:37	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Client Sample ID: SVE-5

Lab Sample ID: 440-23245-5

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1000</b>		24		ppm v/v			09/14/12 12:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	96		80 - 120					09/14/12 12:37	1
4-Bromofluorobenzene (Surr)	102		80 - 120					09/14/12 12:37	1
Toluene-d8 (Surr)	108		80 - 120					09/14/12 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>3.2</b>		2.0		mg/m3			09/14/12 12:37	1
<b>Ethylbenzene</b>	<b>9.4</b>		2.0		mg/m3			09/14/12 12:37	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 12:37	1
Toluene	ND		2.0		mg/m3			09/14/12 12:37	1
<b>Xylenes, Total</b>	<b>13</b>		6.0		mg/m3			09/14/12 12:37	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 12:37	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Benzene</b>	<b>1.0</b>		0.63		ppm v/v			09/14/12 12:37	1
<b>Ethylbenzene</b>	<b>2.2</b>		0.46		ppm v/v			09/14/12 12:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 12:37	1
Toluene	ND		0.53		ppm v/v			09/14/12 12:37	1
<b>Xylenes, Total</b>	<b>3.0</b>		1.4		ppm v/v			09/14/12 12:37	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 12:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		80 - 120					09/14/12 12:37	1
Dibromofluoromethane (Surr)	96		80 - 120					09/14/12 12:37	1
Toluene-d8 (Surr)	108		80 - 120					09/14/12 12:37	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23245-6

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>4700</b>		100		mg/m3			09/14/12 11:44	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1200</b>		24		ppm v/v			09/14/12 11:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	96		80 - 120					09/14/12 11:44	1
4-Bromofluorobenzene (Surr)	103		80 - 120					09/14/12 11:44	1
Toluene-d8 (Surr)	106		80 - 120					09/14/12 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>3.5</b>		2.0		mg/m3			09/14/12 11:44	1
<b>Ethylbenzene</b>	<b>14</b>		2.0		mg/m3			09/14/12 11:44	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 11:44	1
Toluene	ND		2.0		mg/m3			09/14/12 11:44	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23245-6

Date Collected: 09/11/12 19:00

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Xylenes, Total</b>	<b>27</b>		6.0		mg/m3			09/14/12 11:44	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 11:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.1</b>		0.63		ppm v/v			09/14/12 11:44	1
<b>Ethylbenzene</b>	<b>3.3</b>		0.46		ppm v/v			09/14/12 11:44	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 11:44	1
Toluene	ND		0.53		ppm v/v			09/14/12 11:44	1
<b>Xylenes, Total</b>	<b>6.1</b>		1.4		ppm v/v			09/14/12 11:44	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120					09/14/12 11:44	1
Dibromofluoromethane (Surr)	96		80 - 120					09/14/12 11:44	1
Toluene-d8 (Surr)	106		80 - 120					09/14/12 11:44	1

## Client Sample ID: INF-1 2012-09-11 16:15

Lab Sample ID: 440-23245-7

Date Collected: 09/11/12 16:15

Matrix: Air

Date Received: 09/13/12 10:00

Sample Container: Air Sample Bag - 1 L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>5700</b>		100		mg/m3			09/14/12 11:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1400</b>		24		ppm v/v			09/14/12 11:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120					09/14/12 11:17	1
4-Bromofluorobenzene (Surr)	100		80 - 120					09/14/12 11:17	1
Toluene-d8 (Surr)	108		80 - 120					09/14/12 11:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.6</b>		2.0		mg/m3			09/14/12 11:17	1
<b>Ethylbenzene</b>	<b>9.4</b>		2.0		mg/m3			09/14/12 11:17	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 11:17	1
Toluene	ND		2.0		mg/m3			09/14/12 11:17	1
<b>Xylenes, Total</b>	<b>13</b>		6.0		mg/m3			09/14/12 11:17	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 11:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.80</b>		0.63		ppm v/v			09/14/12 11:17	1
<b>Ethylbenzene</b>	<b>2.2</b>		0.46		ppm v/v			09/14/12 11:17	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 11:17	1
Toluene	ND		0.53		ppm v/v			09/14/12 11:17	1
<b>Xylenes, Total</b>	<b>3.0</b>		1.4		ppm v/v			09/14/12 11:17	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 11:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					09/14/12 11:17	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

**Client Sample ID: INF-1 2012-09-11 16:15**

**Lab Sample ID: 440-23245-7**

**Date Collected: 09/11/12 16:15**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

**Sample Container: Air Sample Bag - 1 L**

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Dibromofluoromethane (Surr)</i>	97		80 - 120		09/14/12 11:17	1
<i>Toluene-d8 (Surr)</i>	108		80 - 120		09/14/12 11:17	1

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

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Client Sample ID: EW-1

Date Collected: 09/11/12 19:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23245-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 14:22	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 14:22	CP	TAL IRV

## Client Sample ID: P-2

Date Collected: 09/11/12 19:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23245-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 13:56	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 13:56	CP	TAL IRV

## Client Sample ID: SVE-3

Date Collected: 09/11/12 19:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23245-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 13:29	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 13:29	CP	TAL IRV

## Client Sample ID: SVE-4

Date Collected: 09/11/12 19:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23245-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 13:03	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 13:03	CP	TAL IRV

## Client Sample ID: SVE-5

Date Collected: 09/11/12 19:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23245-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 12:37	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 12:37	CP	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/11/12 19:00

Date Received: 09/13/12 10:00

## Lab Sample ID: 440-23245-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 11:44	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 11:44	CP	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

**Client Sample ID: INF-1 2012-09-11 16:15**

**Lab Sample ID: 440-23245-7**

**Date Collected: 09/11/12 16:15**

**Matrix: Air**

**Date Received: 09/13/12 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	51927	09/14/12 11:17	WC	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	51928	09/14/12 11:17	CP	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

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

**Lab Sample ID: MB 440-51927/8**

**Matrix: Air**

**Analysis Batch: 51927**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/14/12 09:58	1
Ethylbenzene	ND		2.0		mg/m3			09/14/12 09:58	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/14/12 09:58	1
Toluene	ND		2.0		mg/m3			09/14/12 09:58	1
Xylenes, Total	ND		6.0		mg/m3			09/14/12 09:58	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/14/12 09:58	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/14/12 09:58	1
Ethylbenzene	ND		0.46		ppm v/v			09/14/12 09:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/14/12 09:58	1
Toluene	ND		0.53		ppm v/v			09/14/12 09:58	1
Xylenes, Total	ND		1.4		ppm v/v			09/14/12 09:58	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/14/12 09:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		09/14/12 09:58	1
Dibromofluoromethane (Surr)	98		80 - 120		09/14/12 09:58	1
Toluene-d8 (Surr)	103		80 - 120		09/14/12 09:58	1

**Lab Sample ID: LCS 440-51927/5**

**Matrix: Air**

**Analysis Batch: 51927**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.9		mg/m3		99	70 - 120
Ethylbenzene	25.0	29.6		mg/m3		118	75 - 125
m,p-Xylene	50.0	57.8		mg/m3		116	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	18.7		mg/m3		75	60 - 135
o-Xylene	25.0	28.2		mg/m3		113	75 - 125
Toluene	25.0	27.4		mg/m3		110	70 - 120
tert-Butyl alcohol (TBA)	125	150		mg/m3		120	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	7.78		ppm v/v		99	70 - 120
Ethylbenzene	5.8	6.82		ppm v/v		118	75 - 125
m,p-Xylene	12	13.3		ppm v/v		116	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	5.19		ppm v/v		75	60 - 135
o-Xylene	5.8	6.49		ppm v/v		113	75 - 125
Toluene	6.6	7.28		ppm v/v		110	70 - 120
tert-Butyl alcohol (TBA)	41	49.3		ppm v/v		120	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		80 - 120
Dibromofluoromethane (Surr)	107		80 - 120
Toluene-d8 (Surr)	104		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

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

**Lab Sample ID: 440-23245-6 DU**

**Matrix: Air**

**Analysis Batch: 51927**

**Client Sample ID: INF-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	3.5		3.69		mg/m3		5	20
Ethylbenzene	14		15.7		mg/m3		8	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
Toluene	ND		ND		mg/m3		NC	20
Xylenes, Total	27		29.1		mg/m3		8	20
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	1.1		1.16		ppm v/v		5	20
Ethylbenzene	3.3		3.62		ppm v/v		8	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
Toluene	ND		ND		ppm v/v		NC	20
Xylenes, Total	6.1		6.69		ppm v/v		8	20
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	105		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-51928/8**

**Matrix: Air**

**Analysis Batch: 51928**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/14/12 09:58	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/14/12 09:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120		09/14/12 09:58	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/14/12 09:58	1
Toluene-d8 (Surr)	103		80 - 120		09/14/12 09:58	1

**Lab Sample ID: LCS 440-51928/6**

**Matrix: Air**

**Analysis Batch: 51928**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	623		mg/m3		125	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	152		ppm v/v		125	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-51928/6**

**Matrix: Air**

**Analysis Batch: 51928**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<i>Surrogate</i>	<i>LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	99		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	105		80 - 120
<i>Toluene-d8 (Surr)</i>	105		80 - 120

**Lab Sample ID: 440-23245-6 DU**

**Matrix: Air**

**Analysis Batch: 51928**

**Client Sample ID: INF-2**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	4700		4840		mg/m3		3	20

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	1200		1180		ppm v/v		3	20

<i>Surrogate</i>	<i>DU</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	98		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	106		80 - 120
<i>Toluene-d8 (Surr)</i>	105		80 - 120

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## GC/MS VOA

### Analysis Batch: 51927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23245-1	EW-1	Total/NA	Air	8260B	
440-23245-2	P-2	Total/NA	Air	8260B	
440-23245-3	SVE-3	Total/NA	Air	8260B	
440-23245-4	SVE-4	Total/NA	Air	8260B	
440-23245-5	SVE-5	Total/NA	Air	8260B	
440-23245-6	INF-2	Total/NA	Air	8260B	
440-23245-6 DU	INF-2	Total/NA	Air	8260B	
440-23245-7	INF-1 2012-09-11 16:15	Total/NA	Air	8260B	
LCS 440-51927/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-51927/8	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 51928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23245-1	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-2	P-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-3	SVE-3	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-4	SVE-4	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-5	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-6	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-6 DU	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23245-7	INF-1 2012-09-11 16:15	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-51928/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-51928/8	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	



## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

### 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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23245-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

440-23245

LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- KIFF ( )
- TEST AMERICA ( )
- OTHER ( )



Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

**Print Bill To: Contact Name:** Peter Schaefer - 240523  
Tom Magney - 240806-55

**INCIDENT # (ENV SERVICES):** 9 9 9 9 5 8 4 @ 20  
**DATE:** \_\_\_\_\_

**PO #:** 240523  
**SAP #:** 1 3 9 7 8 2 2

CHECK IF NO INCIDENT # APPLIES

PAGE: \_\_\_\_\_ of \_\_\_\_\_

**SAMPLING COMPANY:** Conestoga-Rovers & Associates  
**LOG CODE:** CRAW

**SITE ADDRESS: Street and City:** 4212 First St, Pleasanton  
**State:** CA

**GLOBAL ID NO.:** T0611500034

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville  
**PHONE NO.:** 510-420-0700

**E-MAIL:** emeryvilleedf@craworld.com  
**CONSULTANT PROJECT NO.:** 240523-95

**PROJECT CONTACT (Hardcopy of PDF Report to):** Jessica Radon  
**TELEPHONE:** 510-420-3308  
**FAX:** 510-420-9170  
**E-MAIL:** jradon@craworld.com

**SAMPLER NAME(S) (Print):** McMans / Radon

**LAB USE ONLY:**

**TURNAROUND TIME (CALENDAR DAYS):**  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**  
 Report results in PPMV. Use duplicate only if original is depleted.

cc reports to: pschaefer@craworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS					TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes		
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPHg (8260 B)	Benzene (8260B)	Toluene (8260B)	Ethylbenzene (8260B)	Total xylenes (8260B)			MTBE (8260B)	
	EW-1	9-11-12	19:00	vapor				X			X	X	X	X	X	X			redlar bag
	P-2	9-11-12	19:00	vapor				X			X	X	X	X	X	X			"
	SVE-3	9-11-12	19:00	vapor				X			X	X	X	X	X	X			"
	SVE-4	9-11-12	19:00	vapor				X			X	X	X	X	X	X			"
	SVE-5	9-11-12	19:00	vapor				X			X	X	X	X	X	X			"
	INF-2	9-11-12	19:00	vapor				X			X	X	X	X	X	X			"
	INF-1 2012-09-11 16:15	9-11-12	16:15	vapor				X			X	X	X	X	X	X			"
	↑ Named SVE-5																		

Relinquished by: (Signature) <i>Jessica Radon</i>	Received by: (Signature) <i>Donald Magley</i>	Date: 9-12-12	Time: 12:58
Relinquished by: (Signature) <i>Donald Magley</i>	Received by: (Signature)	Date: 9-12-12	Time: 16:00
Relinquished by: (Signature)	Received by: (Signature) <i>Ken HANLEY</i>	Date: 9-13-12	Time: 10:00

9/21/2012

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23245-1

**Login Number: 23245**

**List Number: 1**

**Creator: Freitag, Kevin R**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	McMannis/Radon
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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 Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23457-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/21/2012 10:22:51 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

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

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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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23457-1	SVE-5	Air	09/12/12 18:00	09/14/12 10:00
440-23457-2	EW-2	Air	09/12/12 18:00	09/14/12 10:00
440-23457-3	SVE-3	Air	09/12/12 18:00	09/14/12 10:00
440-23457-4	INF-2	Air	09/12/12 18:00	09/14/12 10:00
440-23457-5	EW-2	Air	09/13/12 11:00	09/14/12 10:00
440-23457-6	INF-2	Air	09/13/12 11:00	09/14/12 10:00
440-23457-7	EW-2	Air	09/13/12 12:15	09/14/12 10:00
440-23457-8	INF-2	Air	09/13/12 12:15	09/14/12 10:00
440-23457-9	EW-2	Air	09/13/12 14:00	09/14/12 10:00
440-23457-10	INF-2	Air	09/13/12 14:00	09/14/12 10:00

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## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

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**Job ID: 440-23457-1**

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**Laboratory: TestAmerica Irvine**

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### Narrative

**Job Narrative**  
**440-23457-1**

### Comments

No additional comments.

### Receipt

The samples were received on 9/14/2012 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

### GC/MS VOA

No analytical or quality issues were noted.

### VOA Prep

No analytical or quality issues were noted.

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# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23457-1**

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1200</b>		100		mg/m3			09/15/12 12:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>300</b>		24		ppm v/v			09/15/12 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 120		09/15/12 12:53	1
4-Bromofluorobenzene (Surr)	92		80 - 120		09/15/12 12:53	1
Toluene-d8 (Surr)	101		80 - 120		09/15/12 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 12:53	1
Toluene	ND		2.0		mg/m3			09/15/12 12:53	1
<b>Ethylbenzene</b>	<b>2.7</b>		2.0		mg/m3			09/15/12 12:53	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 12:53	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 12:53	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 12:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 12:53	1
Toluene	ND		0.53		ppm v/v			09/15/12 12:53	1
<b>Ethylbenzene</b>	<b>0.61</b>		0.46		ppm v/v			09/15/12 12:53	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 12:53	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 12:53	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/15/12 12:53	1
Dibromofluoromethane (Surr)	100		80 - 120		09/15/12 12:53	1
Toluene-d8 (Surr)	101		80 - 120		09/15/12 12:53	1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23457-2**

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 13:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		09/15/12 13:19	1
4-Bromofluorobenzene (Surr)	84		80 - 120		09/15/12 13:19	1
Toluene-d8 (Surr)	98		80 - 120		09/15/12 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 13:19	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-2

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0		mg/m3			09/15/12 13:19	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 13:19	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 13:19	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 13:19	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 13:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 13:19	1
Toluene	ND		0.53		ppm v/v			09/15/12 13:19	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 13:19	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 13:19	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 13:19	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		80 - 120		09/15/12 13:19	1
Dibromofluoromethane (Surr)	99		80 - 120		09/15/12 13:19	1
Toluene-d8 (Surr)	98		80 - 120		09/15/12 13:19	1

## Client Sample ID: SVE-3

Lab Sample ID: 440-23457-3

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 12:00	1
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 120		09/15/12 12:00	1
4-Bromofluorobenzene (Surr)	93		80 - 120		09/15/12 12:00	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 12:00	1
Toluene	ND		2.0		mg/m3			09/15/12 12:00	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 12:00	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 12:00	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 12:00	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 12:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 12:00	1
Toluene	ND		0.53		ppm v/v			09/15/12 12:00	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 12:00	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 12:00	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 12:00	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 12:00	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: SVE-3

Lab Sample ID: 440-23457-3

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120		09/15/12 12:00	1
Dibromofluoromethane (Surr)	100		80 - 120		09/15/12 12:00	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 12:00	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-4

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>4300</b>		100		mg/m3			09/15/12 14:12	1
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1100</b>		24		ppm v/v			09/15/12 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 120		09/15/12 14:12	1
4-Bromofluorobenzene (Surr)	92		80 - 120		09/15/12 14:12	1
Toluene-d8 (Surr)	102		80 - 120		09/15/12 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.3</b>		2.0		mg/m3			09/15/12 14:12	1
Toluene	ND		2.0		mg/m3			09/15/12 14:12	1
<b>Ethylbenzene</b>	<b>18</b>		2.0		mg/m3			09/15/12 14:12	1
<b>Xylenes, Total</b>	<b>38</b>		6.0		mg/m3			09/15/12 14:12	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 14:12	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 14:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.4</b>		0.63		ppm v/v			09/15/12 14:12	1
Toluene	ND		0.53		ppm v/v			09/15/12 14:12	1
<b>Ethylbenzene</b>	<b>4.2</b>		0.46		ppm v/v			09/15/12 14:12	1
<b>Xylenes, Total</b>	<b>8.7</b>		1.4		ppm v/v			09/15/12 14:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 14:12	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/15/12 14:12	1
Dibromofluoromethane (Surr)	103		80 - 120		09/15/12 14:12	1
Toluene-d8 (Surr)	102		80 - 120		09/15/12 14:12	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-5

Date Collected: 09/13/12 11:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>4000</b>		100		mg/m3			09/15/12 13:46	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-5

Date Collected: 09/13/12 11:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>970</b>		24		ppm v/v			09/15/12 13:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	98		80 - 120					09/15/12 13:46	1
4-Bromofluorobenzene (Surr)	93		80 - 120					09/15/12 13:46	1
Toluene-d8 (Surr)	102		80 - 120					09/15/12 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>3.7</b>		2.0		mg/m3			09/15/12 13:46	1
Toluene	ND		2.0		mg/m3			09/15/12 13:46	1
<b>Ethylbenzene</b>	<b>3.9</b>		2.0		mg/m3			09/15/12 13:46	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 13:46	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 13:46	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 13:46	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Benzene</b>	<b>1.2</b>		0.63		ppm v/v			09/15/12 13:46	1
Toluene	ND		0.53		ppm v/v			09/15/12 13:46	1
<b>Ethylbenzene</b>	<b>0.90</b>		0.46		ppm v/v			09/15/12 13:46	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 13:46	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 13:46	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 13:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	93		80 - 120					09/15/12 13:46	1
Dibromofluoromethane (Surr)	98		80 - 120					09/15/12 13:46	1
Toluene-d8 (Surr)	102		80 - 120					09/15/12 13:46	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-6

Date Collected: 09/13/12 11:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>5200</b>		100		mg/m3			09/15/12 17:45	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1300</b>		24		ppm v/v			09/15/12 17:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	104		80 - 120					09/15/12 17:45	1
4-Bromofluorobenzene (Surr)	95		80 - 120					09/15/12 17:45	1
Toluene-d8 (Surr)	102		80 - 120					09/15/12 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.6</b>		2.0		mg/m3			09/15/12 17:45	1
Toluene	ND		2.0		mg/m3			09/15/12 17:45	1
<b>Ethylbenzene</b>	<b>7.1</b>		2.0		mg/m3			09/15/12 17:45	1
<b>Xylenes, Total</b>	<b>9.8</b>		6.0		mg/m3			09/15/12 17:45	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-6

Date Collected: 09/13/12 11:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 17:45	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 17:45	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.4</b>		0.63		ppm v/v			09/15/12 17:45	1
Toluene	ND		0.53		ppm v/v			09/15/12 17:45	1
<b>Ethylbenzene</b>	<b>1.6</b>		0.46		ppm v/v			09/15/12 17:45	1
<b>Xylenes, Total</b>	<b>2.3</b>		1.4		ppm v/v			09/15/12 17:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 17:45	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120					09/15/12 17:45	1
Dibromofluoromethane (Surr)	104		80 - 120					09/15/12 17:45	1
Toluene-d8 (Surr)	102		80 - 120					09/15/12 17:45	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-7

Date Collected: 09/13/12 12:15

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>3900</b>		100		mg/m3			09/15/12 18:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>940</b>		24		ppm v/v			09/15/12 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120					09/15/12 18:12	1
4-Bromofluorobenzene (Surr)	99		80 - 120					09/15/12 18:12	1
Toluene-d8 (Surr)	97		80 - 120					09/15/12 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>6.2</b>		2.0		mg/m3			09/15/12 18:12	1
Toluene	ND		2.0		mg/m3			09/15/12 18:12	1
<b>Ethylbenzene</b>	<b>14</b>		2.0		mg/m3			09/15/12 18:12	1
<b>Xylenes, Total</b>	<b>22</b>		6.0		mg/m3			09/15/12 18:12	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 18:12	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 18:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.0</b>		0.63		ppm v/v			09/15/12 18:12	1
Toluene	ND		0.53		ppm v/v			09/15/12 18:12	1
<b>Ethylbenzene</b>	<b>3.1</b>		0.46		ppm v/v			09/15/12 18:12	1
<b>Xylenes, Total</b>	<b>5.1</b>		1.4		ppm v/v			09/15/12 18:12	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 18:12	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120					09/15/12 18:12	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-7

Date Collected: 09/13/12 12:15

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 18:12	1
Toluene-d8 (Surr)	97		80 - 120		09/15/12 18:12	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-8

Date Collected: 09/13/12 12:15

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>3000</b>		100		mg/m3			09/15/12 18:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>740</b>		24		ppm v/v			09/15/12 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		09/15/12 18:38	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/15/12 18:38	1
Toluene-d8 (Surr)	102		80 - 120		09/15/12 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>5.4</b>		2.0		mg/m3			09/15/12 18:38	1
Toluene	ND		2.0		mg/m3			09/15/12 18:38	1
<b>Ethylbenzene</b>	<b>12</b>		2.0		mg/m3			09/15/12 18:38	1
<b>Xylenes, Total</b>	<b>17</b>		6.0		mg/m3			09/15/12 18:38	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 18:38	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 18:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.7</b>		0.63		ppm v/v			09/15/12 18:38	1
Toluene	ND		0.53		ppm v/v			09/15/12 18:38	1
<b>Ethylbenzene</b>	<b>2.7</b>		0.46		ppm v/v			09/15/12 18:38	1
<b>Xylenes, Total</b>	<b>3.9</b>		1.4		ppm v/v			09/15/12 18:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 18:38	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		09/15/12 18:38	1
Dibromofluoromethane (Surr)	99		80 - 120		09/15/12 18:38	1
Toluene-d8 (Surr)	102		80 - 120		09/15/12 18:38	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-9

Date Collected: 09/13/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>3100</b>		100		mg/m3			09/15/12 19:05	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-9

Date Collected: 09/13/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>750</b>		24		ppm v/v			09/15/12 19:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	101		80 - 120					09/15/12 19:05	1
4-Bromofluorobenzene (Surr)	93		80 - 120					09/15/12 19:05	1
Toluene-d8 (Surr)	98		80 - 120					09/15/12 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.9</b>		2.0		mg/m3			09/15/12 19:05	1
Toluene	ND		2.0		mg/m3			09/15/12 19:05	1
<b>Ethylbenzene</b>	<b>14</b>		2.0		mg/m3			09/15/12 19:05	1
<b>Xylenes, Total</b>	<b>26</b>		6.0		mg/m3			09/15/12 19:05	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 19:05	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 19:05	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Benzene</b>	<b>1.5</b>		0.63		ppm v/v			09/15/12 19:05	1
Toluene	ND		0.53		ppm v/v			09/15/12 19:05	1
<b>Ethylbenzene</b>	<b>3.3</b>		0.46		ppm v/v			09/15/12 19:05	1
<b>Xylenes, Total</b>	<b>5.9</b>		1.4		ppm v/v			09/15/12 19:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 19:05	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 19:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	93		80 - 120					09/15/12 19:05	1
Dibromofluoromethane (Surr)	101		80 - 120					09/15/12 19:05	1
Toluene-d8 (Surr)	98		80 - 120					09/15/12 19:05	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-10

Date Collected: 09/13/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2700</b>		100		mg/m3			09/15/12 19:31	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>660</b>		24		ppm v/v			09/15/12 19:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	101		80 - 120					09/15/12 19:31	1
4-Bromofluorobenzene (Surr)	94		80 - 120					09/15/12 19:31	1
Toluene-d8 (Surr)	99		80 - 120					09/15/12 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.5</b>		2.0		mg/m3			09/15/12 19:31	1
Toluene	ND		2.0		mg/m3			09/15/12 19:31	1
<b>Ethylbenzene</b>	<b>14</b>		2.0		mg/m3			09/15/12 19:31	1
<b>Xylenes, Total</b>	<b>29</b>		6.0		mg/m3			09/15/12 19:31	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23457-10**

**Date Collected: 09/13/12 14:00**

**Matrix: Air**

**Date Received: 09/14/12 10:00**

**Sample Container: Tedlar Bag 1L**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 19:31	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 19:31	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.4</b>		0.63		ppm v/v			09/15/12 19:31	1
Toluene	ND		0.53		ppm v/v			09/15/12 19:31	1
<b>Ethylbenzene</b>	<b>3.3</b>		0.46		ppm v/v			09/15/12 19:31	1
<b>Xylenes, Total</b>	<b>6.7</b>		1.4		ppm v/v			09/15/12 19:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 19:31	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120					09/15/12 19:31	1
Dibromofluoromethane (Surr)	101		80 - 120					09/15/12 19:31	1
Toluene-d8 (Surr)	99		80 - 120					09/15/12 19:31	1



# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: SVE-5

Date Collected: 09/12/12 18:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23457-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 12:53	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 12:53	LB	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/12/12 18:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23457-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 13:19	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 13:19	LB	TAL IRV

## Client Sample ID: SVE-3

Date Collected: 09/12/12 18:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23457-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 12:00	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 12:00	LB	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/12/12 18:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23457-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 14:12	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 14:12	LB	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/13/12 11:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23457-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 13:46	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 13:46	LB	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/13/12 11:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23457-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 17:45	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 17:45	LB	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-7

Date Collected: 09/13/12 12:15

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 18:12	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 18:12	LB	TAL IRV

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-8

Date Collected: 09/13/12 12:15

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 18:38	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 18:38	LB	TAL IRV

## Client Sample ID: EW-2

Lab Sample ID: 440-23457-9

Date Collected: 09/13/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 19:05	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 19:05	LB	TAL IRV

## Client Sample ID: INF-2

Lab Sample ID: 440-23457-10

Date Collected: 09/13/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 19:31	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 19:31	LB	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

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

**Lab Sample ID: MB 440-52200/5**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 09:55	1
Toluene	ND		2.0		mg/m3			09/15/12 09:55	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 09:55	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 09:55	1
Toluene	ND		0.53		ppm v/v			09/15/12 09:55	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 09:55	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52200/6**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	20.9		mg/m3		84	70 - 120
Toluene	25.0	24.1		mg/m3		96	70 - 120
Ethylbenzene	25.0	26.2		mg/m3		105	75 - 125
m,p-Xylene	50.0	54.2		mg/m3		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	17.4		mg/m3		70	60 - 135
o-Xylene	25.0	25.8		mg/m3		103	75 - 125
tert-Butyl alcohol (TBA)	125	157		mg/m3		125	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	6.54		ppm v/v		84	70 - 120
Toluene	6.6	6.40		ppm v/v		96	70 - 120
Ethylbenzene	5.8	6.04		ppm v/v		105	75 - 125
m,p-Xylene	12	12.5		ppm v/v		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	4.82		ppm v/v		70	60 - 135
o-Xylene	5.8	5.93		ppm v/v		103	75 - 125
tert-Butyl alcohol (TBA)	41	51.6		ppm v/v		125	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	93		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

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

**Lab Sample ID: 440-23457-3 DU**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: SVE-3**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-52201/5**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 09:55	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52201/7**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	605		mg/m3		121	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	148		ppm v/v		121	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-52201/7**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<i>Surrogate</i>	<i>LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	96		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	94		80 - 120
<i>Toluene-d8 (Surr)</i>	93		80 - 120

**Lab Sample ID: 440-23457-3 DU**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: SVE-3**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

<i>Surrogate</i>	<i>DU</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	102		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	91		80 - 120
<i>Toluene-d8 (Surr)</i>	96		80 - 120

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## GC/MS VOA

### Analysis Batch: 52200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23457-1	SVE-5	Total/NA	Air	8260B	
440-23457-2	EW-2	Total/NA	Air	8260B	
440-23457-3	SVE-3	Total/NA	Air	8260B	
440-23457-3 DU	SVE-3	Total/NA	Air	8260B	
440-23457-4	INF-2	Total/NA	Air	8260B	
440-23457-5	EW-2	Total/NA	Air	8260B	
440-23457-6	INF-2	Total/NA	Air	8260B	
440-23457-7	EW-2	Total/NA	Air	8260B	
440-23457-8	INF-2	Total/NA	Air	8260B	
440-23457-9	EW-2	Total/NA	Air	8260B	
440-23457-10	INF-2	Total/NA	Air	8260B	
LCS 440-52200/6	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52200/5	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23457-1	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-2	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-3	SVE-3	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-3 DU	SVE-3	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-4	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-5	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-6	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-7	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-8	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-9	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23457-10	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52201/7	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52201/5	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

### 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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23457-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14



LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Peter Schaefer 240523**

INCIDENT # (ENV SERVICES)  CHECK IF NO INCIDENT # APPLIES

PO #: 2 4 0 5 2 3      SAP #: 1 3 5 7 8 2

DATE: \_\_\_\_\_

PAGE: 1 of 1

SAMPLING COMPANY: **Conestoga-Rovers & Associates**      LOG CODE: **CRAW**

ADDRESS: **5900 Hollis St, Suite A, Emeryville, CA 94608**

PROJECT CONTACT (Hardcopy or PDF Report to): **Peter Schaefer**

TELEPHONE: **510-420-3319**      FAX: **510-420-9170**      E-MAIL: **pschaefer@croworld.com, london@croworld.com**

SITE ADDRESS: Street and city: **4212 First Street, Pleasanton**      State: **CA**      GLOBAL ID NO.: **RO0000360**

EDP DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville**      PHONE NO.: **510-420-0700**      E-MAIL: **emeryville@croworld.com**      CONSULTANT PROJECT NO.: **240523-95-12.06**

SAMPLER NAME(S) (Print): **RADON / McMAINS**      LAB USE ONLY: **440-22457**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Copy of final report to Shell.Lab.Billing@croworld.com;  
jradon@croworld.com; mlundberg@croworld.com;  
pschaefer@croworld.com

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Page 21 of 22	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - GRO, Purgeable (8260B)	BTX + MTBE + TBA (8260B)	TEMPERATURE ON RECEIPT C° R/T	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER					
		TEDLAR BAGS												
	SVE-5	9/21/12	18:00	VAPOR				X		1	X	X		
	EW-2	9/21/12	18:00	VAPOR				X		1	X	X		
	SVE-3	9/21/12	18:00	VAPOR				X		1	X	X		
	INF-2	9/21/12	18:00	VAPOR				X		1	X	X		
	<del>SVE-3</del> EW-2	9/13/12	11:00	VAPOR				X		1	X	X		
	INF-2	9/13/12	11:00	VAPOR				X		1	X	X		
	EW-2	9/13/12	12:15	VAPOR				X		1	X	X		
	INF-2	9/13/12	12:15	VAPOR				X		1	X	X		
	EW-2	9/13/12	14:00	VAPOR				X		1	X	X		
	INF-2	9/13/12	14:00	VAPOR				X		1	X	X		

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>9-13-12</b> <b>GN 9-13-12</b>	Time: <b>14:20</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>9/14/12</b>	Time: <b>1000</b>
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/21/2012

06/2006 Revision  
R/T



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23457-1

**Login Number: 23457**

**List Number: 1**

**Creator: Perez, Angel**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
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	Radon/McMains
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23459-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/21/2012 10:32:58 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23459-1	INF-2	Air	09/12/12 14:00	09/14/12 10:00
440-23459-2	SVE-5	Air	09/12/12 14:00	09/14/12 10:00
440-23459-3	INF-2	Air	09/12/12 16:00	09/14/12 10:00
440-23459-4	SVE-5	Air	09/12/12 16:00	09/14/12 10:00
440-23459-5	EW-1	Air	09/12/12 18:00	09/14/12 10:00
440-23459-6	MW-4	Air	09/12/12 18:00	09/14/12 10:00
440-23459-7	EFF	Air	09/12/12 18:00	09/14/12 10:00
440-23459-8	P-2	Air	09/12/12 18:00	09/14/12 10:00
440-23459-9	SVE-4	Air	09/12/12 18:00	09/14/12 10:00

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

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**Job ID: 440-23459-1**

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**Laboratory: TestAmerica Irvine**

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**Narrative**

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**Job Narrative**  
**440-23459-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/14/2012 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

**GC/MS VOA**

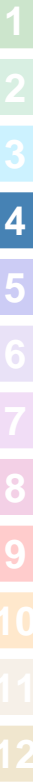
Method(s) 8260B/CA\_LUFTMS: Reanalysis of the following samples were performed outside of the analytical holding time: INF-2 (440-23459-1), INF-2 (440-23459-3), SVE-5 (440-23459-2), SVE-5 (440-23459-4).

Method(s) 8260B: The laboratory control sample (LCS) for batch 52288 exceeded control limit for the following analyte: 2-Methyl-2-Propanol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23459-1**

Date Collected: 09/12/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2900</b>	<b>H</b>	100		mg/m3			09/16/12 01:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>720</b>	<b>H</b>	24		ppm v/v			09/16/12 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 120		09/16/12 01:35	1
4-Bromofluorobenzene (Surr)	93		80 - 120		09/16/12 01:35	1
Toluene-d8 (Surr)	95		80 - 120		09/16/12 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>3.3</b>		2.0		mg/m3			09/15/12 13:03	1
Toluene	ND		2.0		mg/m3			09/15/12 13:03	1
<b>Ethylbenzene</b>	<b>15</b>		2.0		mg/m3			09/15/12 13:03	1
<b>Xylenes, Total</b>	<b>30</b>		6.0		mg/m3			09/15/12 13:03	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 13:03	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 13:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.0</b>		0.63		ppm v/v			09/15/12 13:03	1
Toluene	ND		0.53		ppm v/v			09/15/12 13:03	1
<b>Ethylbenzene</b>	<b>3.4</b>		0.46		ppm v/v			09/15/12 13:03	1
<b>Xylenes, Total</b>	<b>6.8</b>		1.4		ppm v/v			09/15/12 13:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 13:03	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		09/15/12 13:03	1
Dibromofluoromethane (Surr)	110		80 - 120		09/15/12 13:03	1
Toluene-d8 (Surr)	101		80 - 120		09/15/12 13:03	1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23459-2**

Date Collected: 09/12/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2100</b>	<b>H</b>	100		mg/m3			09/16/12 02:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>510</b>	<b>H</b>	24		ppm v/v			09/16/12 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		09/16/12 02:01	1
4-Bromofluorobenzene (Surr)	92		80 - 120		09/16/12 02:01	1
Toluene-d8 (Surr)	101		80 - 120		09/16/12 02:01	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

**Client Sample ID: SVE-5**

**Lab Sample ID: 440-23459-2**

Date Collected: 09/12/12 14:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.3</b>		2.0		mg/m3			09/15/12 13:32	1
Toluene	ND		2.0		mg/m3			09/15/12 13:32	1
<b>Ethylbenzene</b>	<b>4.9</b>		2.0		mg/m3			09/15/12 13:32	1
<b>Xylenes, Total</b>	<b>8.0</b>		6.0		mg/m3			09/15/12 13:32	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 13:32	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 13:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.72</b>		0.63		ppm v/v			09/15/12 13:32	1
Toluene	ND		0.53		ppm v/v			09/15/12 13:32	1
<b>Ethylbenzene</b>	<b>1.1</b>		0.46		ppm v/v			09/15/12 13:32	1
<b>Xylenes, Total</b>	<b>1.8</b>		1.4		ppm v/v			09/15/12 13:32	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 13:32	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		09/15/12 13:32	1
Dibromofluoromethane (Surr)	115		80 - 120		09/15/12 13:32	1
Toluene-d8 (Surr)	101		80 - 120		09/15/12 13:32	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23459-3**

Date Collected: 09/12/12 16:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>3000</b>	<b>H</b>	100		mg/m3			09/16/12 02:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>740</b>	<b>H</b>	24		ppm v/v			09/16/12 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		09/16/12 02:28	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/16/12 02:28	1
Toluene-d8 (Surr)	100		80 - 120		09/16/12 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>5.5</b>		2.0		mg/m3			09/15/12 14:40	1
Toluene	ND		2.0		mg/m3			09/15/12 14:40	1
<b>Ethylbenzene</b>	<b>19</b>		2.0		mg/m3			09/15/12 14:40	1
<b>Xylenes, Total</b>	<b>39</b>		6.0		mg/m3			09/15/12 14:40	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 14:40	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 14:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.7</b>		0.63		ppm v/v			09/15/12 14:40	1
Toluene	ND		0.53		ppm v/v			09/15/12 14:40	1
<b>Ethylbenzene</b>	<b>4.3</b>		0.46		ppm v/v			09/15/12 14:40	1
<b>Xylenes, Total</b>	<b>9.0</b>		1.4		ppm v/v			09/15/12 14:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 14:40	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23459-3

Date Collected: 09/12/12 16:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 14:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	103		80 - 120					09/15/12 14:40	1
Dibromofluoromethane (Surr)	115		80 - 120					09/15/12 14:40	1
Toluene-d8 (Surr)	98		80 - 120					09/15/12 14:40	1

## Client Sample ID: SVE-5

Lab Sample ID: 440-23459-4

Date Collected: 09/12/12 16:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1500</b>	<b>H</b>	100		mg/m3			09/16/12 02:54	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>370</b>	<b>H</b>	24		ppm v/v			09/16/12 02:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	97		80 - 120					09/16/12 02:54	1
4-Bromofluorobenzene (Surr)	89		80 - 120					09/16/12 02:54	1
Toluene-d8 (Surr)	100		80 - 120					09/16/12 02:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.6</b>		2.0		mg/m3			09/15/12 15:09	1
Toluene	ND		2.0		mg/m3			09/15/12 15:09	1
<b>Ethylbenzene</b>	<b>4.7</b>		2.0		mg/m3			09/15/12 15:09	1
<b>Xylenes, Total</b>	<b>7.3</b>		6.0		mg/m3			09/15/12 15:09	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 15:09	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 15:09	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Benzene</b>	<b>0.80</b>		0.63		ppm v/v			09/15/12 15:09	1
Toluene	ND		0.53		ppm v/v			09/15/12 15:09	1
<b>Ethylbenzene</b>	<b>1.1</b>		0.46		ppm v/v			09/15/12 15:09	1
<b>Xylenes, Total</b>	<b>1.7</b>		1.4		ppm v/v			09/15/12 15:09	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 15:09	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 15:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		80 - 120					09/15/12 15:09	1
Dibromofluoromethane (Surr)	110		80 - 120					09/15/12 15:09	1
Toluene-d8 (Surr)	98		80 - 120					09/15/12 15:09	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23459-5**

**Date Collected: 09/12/12 18:00**

**Matrix: Air**

**Date Received: 09/14/12 10:00**

**Sample Container: Tedlar Bag 1L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 16:52	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 120					09/15/12 16:52	1
4-Bromofluorobenzene (Surr)	90		80 - 120					09/15/12 16:52	1
Toluene-d8 (Surr)	93		80 - 120					09/15/12 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 16:52	1
Toluene	ND		2.0		mg/m3			09/15/12 16:52	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 16:52	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 16:52	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 16:52	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 16:52	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 16:52	1
Toluene	ND		0.53		ppm v/v			09/15/12 16:52	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 16:52	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 16:52	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 16:52	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 16:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120					09/15/12 16:52	1
Dibromofluoromethane (Surr)	106		80 - 120					09/15/12 16:52	1
Toluene-d8 (Surr)	93		80 - 120					09/15/12 16:52	1

**Client Sample ID: MW-4**

**Lab Sample ID: 440-23459-6**

**Date Collected: 09/12/12 18:00**

**Matrix: Air**

**Date Received: 09/14/12 10:00**

**Sample Container: Tedlar Bag 1L**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2300		100		mg/m3			09/15/12 16:26	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	550		24		ppm v/v			09/15/12 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 120					09/15/12 16:26	1
4-Bromofluorobenzene (Surr)	96		80 - 120					09/15/12 16:26	1
Toluene-d8 (Surr)	98		80 - 120					09/15/12 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 16:26	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

**Client Sample ID: MW-4**

**Lab Sample ID: 440-23459-6**

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0		mg/m3			09/15/12 16:26	1
<b>Ethylbenzene</b>	<b>3.5</b>		2.0		mg/m3			09/15/12 16:26	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 16:26	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>65</b>		2.0		mg/m3			09/15/12 16:26	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 16:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 16:26	1
Toluene	ND		0.53		ppm v/v			09/15/12 16:26	1
<b>Ethylbenzene</b>	<b>0.79</b>		0.46		ppm v/v			09/15/12 16:26	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 16:26	1
<b>Methyl-t-Butyl Ether (MTBE)</b>	<b>18</b>		0.55		ppm v/v			09/15/12 16:26	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		09/15/12 16:26	1
Dibromofluoromethane (Surr)	106		80 - 120		09/15/12 16:26	1
Toluene-d8 (Surr)	98		80 - 120		09/15/12 16:26	1

**Client Sample ID: EFF**

**Lab Sample ID: 440-23459-7**

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND	*	100		mg/m3			09/15/12 12:05	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Volatile Fuel Hydrocarbons (C4-C12)	ND	*	24		ppm v/v			09/15/12 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		80 - 120		09/15/12 12:05	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/15/12 12:05	1
Toluene-d8 (Surr)	100		80 - 120		09/15/12 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 12:05	1
Toluene	ND		2.0		mg/m3			09/15/12 12:05	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 12:05	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 12:05	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 12:05	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 12:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 12:05	1
Toluene	ND		0.53		ppm v/v			09/15/12 12:05	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 12:05	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 12:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 12:05	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 12:05	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Client Sample ID: EFF

Lab Sample ID: 440-23459-7

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		09/15/12 12:05	1
Dibromofluoromethane (Surr)	115		80 - 120		09/15/12 12:05	1
Toluene-d8 (Surr)	100		80 - 120		09/15/12 12:05	1

## Client Sample ID: P-2

Lab Sample ID: 440-23459-8

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 14:39	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 14:39	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Dibromofluoromethane (Surr)	104		80 - 120		09/15/12 14:39	1			
4-Bromofluorobenzene (Surr)	89		80 - 120		09/15/12 14:39	1			
Toluene-d8 (Surr)	95		80 - 120		09/15/12 14:39	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 14:39	1
Toluene	ND		2.0		mg/m3			09/15/12 14:39	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 14:39	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 14:39	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 14:39	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 14:39	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 14:39	1
Toluene	ND		0.53		ppm v/v			09/15/12 14:39	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 14:39	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 14:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 14:39	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 14:39	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	89		80 - 120		09/15/12 14:39	1			
Dibromofluoromethane (Surr)	104		80 - 120		09/15/12 14:39	1			
Toluene-d8 (Surr)	95		80 - 120		09/15/12 14:39	1			

## Client Sample ID: SVE-4

Lab Sample ID: 440-23459-9

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 15:05	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 15:05	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

**Client Sample ID: SVE-4**

**Lab Sample ID: 440-23459-9**

**Date Collected: 09/12/12 18:00**

**Matrix: Air**

**Date Received: 09/14/12 10:00**

**Sample Container: Tedlar Bag 1L**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 120		09/15/12 15:05	1
4-Bromofluorobenzene (Surr)	89		80 - 120		09/15/12 15:05	1
Toluene-d8 (Surr)	98		80 - 120		09/15/12 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 15:05	1
Toluene	ND		2.0		mg/m3			09/15/12 15:05	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 15:05	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 15:05	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 15:05	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 15:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 15:05	1
Toluene	ND		0.53		ppm v/v			09/15/12 15:05	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 15:05	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 15:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 15:05	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120		09/15/12 15:05	1
Dibromofluoromethane (Surr)	104		80 - 120		09/15/12 15:05	1
Toluene-d8 (Surr)	98		80 - 120		09/15/12 15:05	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Client Sample ID: INF-2

Date Collected: 09/12/12 14:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23459-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52210	09/15/12 13:03	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 01:35	LB	TAL IRV

## Client Sample ID: SVE-5

Date Collected: 09/12/12 14:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23459-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52210	09/15/12 13:32	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 02:01	LB	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/12/12 16:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23459-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52210	09/15/12 14:40	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 02:28	LB	TAL IRV

## Client Sample ID: SVE-5

Date Collected: 09/12/12 16:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23459-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52210	09/15/12 15:09	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 02:54	LB	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/12/12 18:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23459-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 16:52	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 16:52	LB	TAL IRV

## Client Sample ID: MW-4

Date Collected: 09/12/12 18:00

Date Received: 09/14/12 10:00

## Lab Sample ID: 440-23459-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 16:26	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 16:26	LB	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Client Sample ID: EFF

Lab Sample ID: 440-23459-7

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52210	09/15/12 12:05	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52211	09/15/12 12:05	LB	TAL IRV

## Client Sample ID: P-2

Lab Sample ID: 440-23459-8

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 14:39	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 14:39	LB	TAL IRV

## Client Sample ID: SVE-4

Lab Sample ID: 440-23459-9

Date Collected: 09/12/12 18:00

Matrix: Air

Date Received: 09/14/12 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 15:05	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 15:05	LB	TAL IRV

**Laboratory References:**

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

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

**Lab Sample ID: MB 440-52200/5**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 09:55	1
Toluene	ND		2.0		mg/m3			09/15/12 09:55	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 09:55	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 09:55	1
Toluene	ND		0.53		ppm v/v			09/15/12 09:55	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 09:55	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52200/6**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	20.9		mg/m3		84	70 - 120
Toluene	25.0	24.1		mg/m3		96	70 - 120
Ethylbenzene	25.0	26.2		mg/m3		105	75 - 125
m,p-Xylene	50.0	54.2		mg/m3		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	17.4		mg/m3		70	60 - 135
o-Xylene	25.0	25.8		mg/m3		103	75 - 125
tert-Butyl alcohol (TBA)	125	157		mg/m3		125	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	6.54		ppm v/v		84	70 - 120
Toluene	6.6	6.40		ppm v/v		96	70 - 120
Ethylbenzene	5.8	6.04		ppm v/v		105	75 - 125
m,p-Xylene	12	12.5		ppm v/v		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	4.82		ppm v/v		70	60 - 135
o-Xylene	5.8	5.93		ppm v/v		103	75 - 125
tert-Butyl alcohol (TBA)	41	51.6		ppm v/v		125	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	93		80 - 120



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

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

**Lab Sample ID: 440-23457-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

**Lab Sample ID: MB 440-52210/5**

**Matrix: Air**

**Analysis Batch: 52210**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		2.0		mg/m3			09/15/12 11:07	1
Toluene	ND		2.0		mg/m3			09/15/12 11:07	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 11:07	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 11:07	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 11:07	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 11:07	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.63		ppm v/v			09/15/12 11:07	1
Toluene	ND		0.53		ppm v/v			09/15/12 11:07	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 11:07	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 11:07	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 11:07	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 11:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		80 - 120		09/15/12 11:07	1
Dibromofluoromethane (Surr)	115		80 - 120		09/15/12 11:07	1
Toluene-d8 (Surr)	99		80 - 120		09/15/12 11:07	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

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

**Lab Sample ID: LCS 440-52210/7**

**Matrix: Air**

**Analysis Batch: 52210**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.4		mg/m3		106	70 - 120
Toluene	25.0	26.4		mg/m3		105	70 - 120
Ethylbenzene	25.0	24.6		mg/m3		99	75 - 125
m,p-Xylene	50.0	49.1		mg/m3		98	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	32.5		mg/m3		130	60 - 135
o-Xylene	25.0	25.4		mg/m3		102	75 - 125
tert-Butyl alcohol (TBA)	125	137		mg/m3		110	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	8.27		ppm v/v		106	70 - 120
Toluene	6.6	7.00		ppm v/v		105	70 - 120
Ethylbenzene	5.8	5.67		ppm v/v		99	75 - 125
m,p-Xylene	12	11.3		ppm v/v		98	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	9.02		ppm v/v		130	60 - 135
o-Xylene	5.8	5.86		ppm v/v		102	75 - 125
tert-Butyl alcohol (TBA)	41	45.3		ppm v/v		110	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	117		80 - 120
Toluene-d8 (Surr)	103		80 - 120

**Lab Sample ID: 440-23459-7 DU**

**Matrix: Air**

**Analysis Batch: 52210**

**Client Sample ID: EFF**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	116		80 - 120
Toluene-d8 (Surr)	100		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-52201/5**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52201/7**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	605		mg/m3		121	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	148		ppm v/v		121	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Toluene-d8 (Surr)	93		80 - 120

**Lab Sample ID: 440-23457-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	96		80 - 120

**Lab Sample ID: MB 440-52211/5**

**Matrix: Air**

**Analysis Batch: 52211**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 11:07	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-52211/5**

**Matrix: Air**

**Analysis Batch: 52211**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 11:07	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	115		80 - 120					09/15/12 11:07	1
4-Bromofluorobenzene (Surr)	102		80 - 120					09/15/12 11:07	1
Toluene-d8 (Surr)	99		80 - 120					09/15/12 11:07	1

**Lab Sample ID: 440-23459-7 DU**

**Matrix: Air**

**Analysis Batch: 52211**

**Client Sample ID: EFF**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND	*	ND	*	mg/m3		NC	20
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND	*	ND	*	ppm v/v		NC	20
Surrogate	%Recovery	DU Qualifier	Limits					
Dibromofluoromethane (Surr)	116		80 - 120					
4-Bromofluorobenzene (Surr)	98		80 - 120					
Toluene-d8 (Surr)	100		80 - 120					

**Lab Sample ID: MB 440-52289/4**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		mg/m3			09/15/12 21:38	1
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		12		ppm v/v			09/15/12 21:38	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120					09/15/12 21:38	1
4-Bromofluorobenzene (Surr)	88		80 - 120					09/15/12 21:38	1
Toluene-d8 (Surr)	97		80 - 120					09/15/12 21:38	1

**Lab Sample ID: LCS 440-52289/6**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	636		mg/m3		127	55 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	156		ppm v/v		127	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 440-52289/6**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

<i>Surrogate</i>	<i>LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	94		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120
<i>Toluene-d8 (Surr)</i>	98		80 - 120

**Lab Sample ID: 440-23525-A-8 DU**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>DU</i>	<i>DU</i>	<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>Limit</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

<i>Surrogate</i>	<i>DU</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>Dibromofluoromethane (Surr)</i>	97		80 - 120
<i>4-Bromofluorobenzene (Surr)</i>	89		80 - 120
<i>Toluene-d8 (Surr)</i>	94		80 - 120

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## GC/MS VOA

### Analysis Batch: 52200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23457-A-3 DU	Duplicate	Total/NA	Air	8260B	
440-23459-5	EW-1	Total/NA	Air	8260B	
440-23459-6	MW-4	Total/NA	Air	8260B	
440-23459-8	P-2	Total/NA	Air	8260B	
440-23459-9	SVE-4	Total/NA	Air	8260B	
LCS 440-52200/6	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52200/5	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23457-A-3 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-5	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-6	MW-4	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-8	P-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-9	SVE-4	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52201/7	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52201/5	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

### Analysis Batch: 52210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23459-1	INF-2	Total/NA	Air	8260B	
440-23459-2	SVE-5	Total/NA	Air	8260B	
440-23459-3	INF-2	Total/NA	Air	8260B	
440-23459-4	SVE-5	Total/NA	Air	8260B	
440-23459-7	EFF	Total/NA	Air	8260B	
440-23459-7 DU	EFF	Total/NA	Air	8260B	
LCS 440-52210/7	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52210/5	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23459-7	EFF	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-7 DU	EFF	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52211/5	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

### Analysis Batch: 52289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23459-1	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-2	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-3	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23459-4	SVE-5	Total/NA	Air	8260B/CA_LUFT MS	



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## GC/MS VOA (Continued)

### Analysis Batch: 52289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23525-A-8 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52289/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52289/4	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

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## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23459-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14



# Shell Oil Products Chain Of Custody Record

### LAB (LOCATION)

- CALSCIENCE ( )
- SPL ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

**Print Bill To Contact Name:** Peter Schaefer 240523

**INCIDENT # (ENV SERVICES):** 9 8 9 9 6 8 4 0

**PO #:** 2 4 0 5 2 3

**SAP #:** 1 3 5 7 8 2

CHECK IF NO INCIDENT # APPLIES

DATE: \_\_\_\_\_

PAGE: 1 of 1

**SAMPLING COMPANY:** Conestoga-Rovers & Associates

**LOG CODE:** CRAW

**ADDRESS:** 5900 Hollis St, Suite A, Emeryville, CA 94608

**PROJECT CONTACT (Hardcopy or PDF Reports):** Peter Schaefer

**TELEPHONE:** 510-420-3319

**FAX:** 510-420-9170

**E-MAIL:** pschaefer@craworld.com; jradon@craworld.com

**SITE ADDRESS: Street and City:** 4212 First Street, Pleasanton

**State:** CA

**GLOBAL ID NO.:** R00000360

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville

**PHONE NO.:** 510-420-0700

**E-MAIL:** emeryvillecra@craworld.com

**CONSULTANT PROJECT NO.:** 240523-95-12.06

**SAMPLER NAME(S) (Print):** RADON / McMAINS

**LAB USE ONLY:** 1140-23479

**TURNAROUND TIME (CALENDAR DAYS):**

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS

RESULTS NEEDED ON WEEKEND

**REQUESTED ANALYSIS**

LA - RWQCB REPORT FORMAT  UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@craworld.com; jradon@craworld.com; mlundberg@craworld.com; pschaefer@craworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TPH -GRO, Purgable (R260B)	BTX + MTBE + TBA (R260B)	REQUESTED ANALYSIS										TEMPERATURE ON RECEIPT
												R/T

Page 24 of 25	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgable (R260B)	BTX + MTBE + TBA (R260B)	TEMPERATURE ON RECEIPT
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER				
		Container PID Readings or Laboratory Notes											
				VAPOR								TEDLAR BAGS	
	INF-2	9-12-12	14:00	VAPOR				X		1	X X	"	
	SVE-5	9-12-12	14:00	VAPOR				X		1	X X	"	
	INF-2	9-12-12	16:00	VAPOR				X		1	X X	"	
	SVE-5	9-12-12	16:00	VAPOR				X		1	X X	"	
	EW-1	9-12-12	18:00	VAPOR				X		1	X X	"	
	MW-4	9-12-12	18:00	VAPOR				X		1	X X	"	
	EFF	9-12-12	18:00	VAPOR				X		1	X X	"	
	P-2	9-12-12	18:00	VAPOR				X		1	X X	"	
	SVE-4	9-12-12	18:00	VAPOR				X		1	X X	"	

Relinquished by: (Signature) <i>Donald Mayhew</i>	Received by: (Signature) <i>Specialist Mayhew</i>	Date: 9-13-12	Time: 14:20
Relinquished by: (Signature) <i>Donald Mayhew</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/14/12	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/21/2012

*rtf*

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23459-1

**Login Number: 23459**

**List Number: 1**

**Creator: Perez, Angel**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
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	Radon/McMains
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23527-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/21/2012 10:40:14 AM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23527-1	INF-2	Air	09/13/12 15:00	09/15/12 12:15
440-23527-2	EW-2	Air	09/13/12 15:00	09/15/12 12:15
440-23527-3	INF-2	Air	09/13/12 15:15	09/15/12 12:15
440-23527-4	EW-2	Air	09/13/12 15:15	09/15/12 12:15
440-23527-5	INF-2	Air	09/13/12 15:30	09/15/12 12:15
440-23527-6	EW-2	Air	09/13/12 15:30	09/15/12 12:15
440-23527-7	INF-2	Air	09/13/12 17:00	09/15/12 12:15
440-23527-8	EW-2	Air	09/13/12 17:00	09/15/12 12:15
440-23527-9	INF-2	Air	09/13/12 19:00	09/15/12 12:15
440-23527-10	EW-2	Air	09/13/12 19:00	09/15/12 12:15

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

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**Job ID: 440-23527-1**

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**Laboratory: TestAmerica Irvine**

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**Narrative**

**Job Narrative**  
**440-23527-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/15/2012 12:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

**GC/MS VOA**

Method(s) 8260B/CA\_LUFTMS: RPD exceeded the acceptance limit due to sample matrix effects

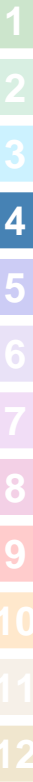
Method(s) 8260B: The laboratory control sample (LCS) for batch 52288 exceeded control limit for the following analyte: 2-Methyl-2-Propanol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Due to the low levels of analytes in the samples, the duplicate RPD calculation does not provide useful information

No other analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23527-1**

Date Collected: 09/13/12 15:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2600</b>		100		mg/m3			09/16/12 00:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>630</b>		24		ppm v/v			09/16/12 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 120		09/16/12 00:15	1
4-Bromofluorobenzene (Surr)	97		80 - 120		09/16/12 00:15	1
Toluene-d8 (Surr)	103		80 - 120		09/16/12 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>3.8</b>		2.0		mg/m3			09/16/12 00:15	1
Toluene	ND		2.0		mg/m3			09/16/12 00:15	1
<b>Ethylbenzene</b>	<b>17</b>		2.0		mg/m3			09/16/12 00:15	1
<b>Xylenes, Total</b>	<b>39</b>		6.0		mg/m3			09/16/12 00:15	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 00:15	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 00:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.2</b>		0.63		ppm v/v			09/16/12 00:15	1
Toluene	ND		0.53		ppm v/v			09/16/12 00:15	1
<b>Ethylbenzene</b>	<b>4.0</b>		0.46		ppm v/v			09/16/12 00:15	1
<b>Xylenes, Total</b>	<b>9.1</b>		1.4		ppm v/v			09/16/12 00:15	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 00:15	1
tert-Butyl alcohol (TBA)	ND *		66		ppm v/v			09/16/12 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		09/16/12 00:15	1
Dibromofluoromethane (Surr)	95		80 - 120		09/16/12 00:15	1
Toluene-d8 (Surr)	103		80 - 120		09/16/12 00:15	1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23527-2**

Date Collected: 09/13/12 15:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2900</b>		100		mg/m3			09/16/12 00:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>700</b>		24		ppm v/v			09/16/12 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120		09/16/12 00:41	1
4-Bromofluorobenzene (Surr)	95		80 - 120		09/16/12 00:41	1
Toluene-d8 (Surr)	100		80 - 120		09/16/12 00:41	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23527-2**

Date Collected: 09/13/12 15:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.3</b>		2.0		mg/m3			09/16/12 00:41	1
Toluene	ND		2.0		mg/m3			09/16/12 00:41	1
<b>Ethylbenzene</b>	<b>19</b>		2.0		mg/m3			09/16/12 00:41	1
<b>Xylenes, Total</b>	<b>43</b>		6.0		mg/m3			09/16/12 00:41	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 00:41	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 00:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.3</b>		0.63		ppm v/v			09/16/12 00:41	1
Toluene	ND		0.53		ppm v/v			09/16/12 00:41	1
<b>Ethylbenzene</b>	<b>4.3</b>		0.46		ppm v/v			09/16/12 00:41	1
<b>Xylenes, Total</b>	<b>9.8</b>		1.4		ppm v/v			09/16/12 00:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 00:41	1
tert-Butyl alcohol (TBA)	ND *		66		ppm v/v			09/16/12 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		09/16/12 00:41	1
Dibromofluoromethane (Surr)	96		80 - 120		09/16/12 00:41	1
Toluene-d8 (Surr)	100		80 - 120		09/16/12 00:41	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23527-3**

Date Collected: 09/13/12 15:15

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>2500</b>		100		mg/m3			09/16/12 01:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>610</b>		24		ppm v/v			09/16/12 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120		09/16/12 01:08	1
4-Bromofluorobenzene (Surr)	97		80 - 120		09/16/12 01:08	1
Toluene-d8 (Surr)	100		80 - 120		09/16/12 01:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>4.1</b>		2.0		mg/m3			09/16/12 01:08	1
Toluene	ND		2.0		mg/m3			09/16/12 01:08	1
<b>Ethylbenzene</b>	<b>17</b>		2.0		mg/m3			09/16/12 01:08	1
<b>Xylenes, Total</b>	<b>39</b>		6.0		mg/m3			09/16/12 01:08	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 01:08	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 01:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>1.3</b>		0.63		ppm v/v			09/16/12 01:08	1
Toluene	ND		0.53		ppm v/v			09/16/12 01:08	1
<b>Ethylbenzene</b>	<b>3.9</b>		0.46		ppm v/v			09/16/12 01:08	1
<b>Xylenes, Total</b>	<b>8.9</b>		1.4		ppm v/v			09/16/12 01:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 01:08	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23527-3

Date Collected: 09/13/12 15:15

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND	*	66		ppm v/v			09/16/12 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120					09/16/12 01:08	1
Dibromofluoromethane (Surr)	97		80 - 120					09/16/12 01:08	1
Toluene-d8 (Surr)	100		80 - 120					09/16/12 01:08	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23527-4

Date Collected: 09/13/12 15:15

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1800</b>		100		mg/m3			09/16/12 00:48	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>440</b>		24		ppm v/v			09/16/12 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 120					09/16/12 00:48	1
4-Bromofluorobenzene (Surr)	104		80 - 120					09/16/12 00:48	1
Toluene-d8 (Surr)	112		80 - 120					09/16/12 00:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.9</b>		2.0		mg/m3			09/16/12 00:48	1
Toluene	ND		2.0		mg/m3			09/16/12 00:48	1
<b>Ethylbenzene</b>	<b>12</b>		2.0		mg/m3			09/16/12 00:48	1
<b>Xylenes, Total</b>	<b>26</b>		6.0		mg/m3			09/16/12 00:48	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 00:48	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 00:48	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.92</b>		0.63		ppm v/v			09/16/12 00:48	1
Toluene	ND		0.53		ppm v/v			09/16/12 00:48	1
<b>Ethylbenzene</b>	<b>2.7</b>		0.46		ppm v/v			09/16/12 00:48	1
<b>Xylenes, Total</b>	<b>5.9</b>		1.4		ppm v/v			09/16/12 00:48	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 00:48	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120					09/16/12 00:48	1
Dibromofluoromethane (Surr)	105		80 - 120					09/16/12 00:48	1
Toluene-d8 (Surr)	112		80 - 120					09/16/12 00:48	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23527-5

Date Collected: 09/13/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>480</b>		100		mg/m3			09/16/12 01:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>120</b>		24		ppm v/v			09/16/12 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 120		09/16/12 01:46	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/16/12 01:46	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 01:46	1
Toluene	ND		2.0		mg/m3			09/16/12 01:46	1
<b>Ethylbenzene</b>	<b>2.8</b>		2.0		mg/m3			09/16/12 01:46	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 01:46	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 01:46	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 01:46	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 01:46	1
Toluene	ND		0.53		ppm v/v			09/16/12 01:46	1
<b>Ethylbenzene</b>	<b>0.64</b>		0.46		ppm v/v			09/16/12 01:46	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 01:46	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 01:46	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		09/16/12 01:46	1
Dibromofluoromethane (Surr)	108		80 - 120		09/16/12 01:46	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 01:46	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23527-6

Date Collected: 09/13/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1600</b>		100		mg/m3			09/16/12 02:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>390</b>		24		ppm v/v			09/16/12 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 120		09/16/12 02:15	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/16/12 02:15	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 02:15	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23527-6**

Date Collected: 09/13/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.8</b>		2.0		mg/m3			09/16/12 02:15	1
Toluene	ND		2.0		mg/m3			09/16/12 02:15	1
<b>Ethylbenzene</b>	<b>12</b>		2.0		mg/m3			09/16/12 02:15	1
<b>Xylenes, Total</b>	<b>26</b>		6.0		mg/m3			09/16/12 02:15	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 02:15	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 02:15	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.88</b>		0.63		ppm v/v			09/16/12 02:15	1
Toluene	ND		0.53		ppm v/v			09/16/12 02:15	1
<b>Ethylbenzene</b>	<b>2.7</b>		0.46		ppm v/v			09/16/12 02:15	1
<b>Xylenes, Total</b>	<b>6.1</b>		1.4		ppm v/v			09/16/12 02:15	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 02:15	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		09/16/12 02:15	1
Dibromofluoromethane (Surr)	106		80 - 120		09/16/12 02:15	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 02:15	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23527-7**

Date Collected: 09/13/12 17:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1300</b>		100		mg/m3			09/16/12 02:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>330</b>		24		ppm v/v			09/16/12 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 120		09/16/12 02:43	1
4-Bromofluorobenzene (Surr)	101		80 - 120		09/16/12 02:43	1
Toluene-d8 (Surr)	110		80 - 120		09/16/12 02:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.2</b>		2.0		mg/m3			09/16/12 02:43	1
Toluene	ND		2.0		mg/m3			09/16/12 02:43	1
<b>Ethylbenzene</b>	<b>7.5</b>		2.0		mg/m3			09/16/12 02:43	1
<b>Xylenes, Total</b>	<b>13</b>		6.0		mg/m3			09/16/12 02:43	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 02:43	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 02:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.69</b>		0.63		ppm v/v			09/16/12 02:43	1
Toluene	ND		0.53		ppm v/v			09/16/12 02:43	1
<b>Ethylbenzene</b>	<b>1.7</b>		0.46		ppm v/v			09/16/12 02:43	1
<b>Xylenes, Total</b>	<b>3.0</b>		1.4		ppm v/v			09/16/12 02:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 02:43	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23527-7

Date Collected: 09/13/12 17:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120					09/16/12 02:43	1
Dibromofluoromethane (Surr)	107		80 - 120					09/16/12 02:43	1
Toluene-d8 (Surr)	110		80 - 120					09/16/12 02:43	1

## Client Sample ID: EW-2

Lab Sample ID: 440-23527-8

Date Collected: 09/13/12 17:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1300</b>		100		mg/m3			09/16/12 03:11	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>310</b>		24		ppm v/v			09/16/12 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 120					09/16/12 03:11	1
4-Bromofluorobenzene (Surr)	102		80 - 120					09/16/12 03:11	1
Toluene-d8 (Surr)	111		80 - 120					09/16/12 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.1</b>		2.0		mg/m3			09/16/12 03:11	1
Toluene	ND		2.0		mg/m3			09/16/12 03:11	1
<b>Ethylbenzene</b>	<b>7.0</b>		2.0		mg/m3			09/16/12 03:11	1
<b>Xylenes, Total</b>	<b>13</b>		6.0		mg/m3			09/16/12 03:11	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 03:11	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 03:11	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.65</b>		0.63		ppm v/v			09/16/12 03:11	1
Toluene	ND		0.53		ppm v/v			09/16/12 03:11	1
<b>Ethylbenzene</b>	<b>1.6</b>		0.46		ppm v/v			09/16/12 03:11	1
<b>Xylenes, Total</b>	<b>3.0</b>		1.4		ppm v/v			09/16/12 03:11	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 03:11	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120					09/16/12 03:11	1
Dibromofluoromethane (Surr)	102		80 - 120					09/16/12 03:11	1
Toluene-d8 (Surr)	111		80 - 120					09/16/12 03:11	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23527-9**

Date Collected: 09/13/12 19:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>960</b>		100		mg/m3			09/16/12 03:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>230</b>		24		ppm v/v			09/16/12 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		80 - 120		09/16/12 03:40	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 03:40	1
Toluene-d8 (Surr)	112		80 - 120		09/16/12 03:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 03:40	1
Toluene	ND		2.0		mg/m3			09/16/12 03:40	1
<b>Ethylbenzene</b>	<b>6.7</b>		2.0		mg/m3			09/16/12 03:40	1
<b>Xylenes, Total</b>	<b>15</b>		6.0		mg/m3			09/16/12 03:40	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 03:40	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 03:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 03:40	1
Toluene	ND		0.53		ppm v/v			09/16/12 03:40	1
<b>Ethylbenzene</b>	<b>1.5</b>		0.46		ppm v/v			09/16/12 03:40	1
<b>Xylenes, Total</b>	<b>3.5</b>		1.4		ppm v/v			09/16/12 03:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 03:40	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 03:40	1
Dibromofluoromethane (Surr)	108		80 - 120		09/16/12 03:40	1
Toluene-d8 (Surr)	112		80 - 120		09/16/12 03:40	1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23527-10**

Date Collected: 09/13/12 19:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>1700</b>		100		mg/m3			09/16/12 04:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>420</b>		24		ppm v/v			09/16/12 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 120		09/16/12 04:08	1
4-Bromofluorobenzene (Surr)	105		80 - 120		09/16/12 04:08	1
Toluene-d8 (Surr)	109		80 - 120		09/16/12 04:08	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

**Client Sample ID: EW-2**

**Lab Sample ID: 440-23527-10**

**Date Collected: 09/13/12 19:00**

**Matrix: Air**

**Date Received: 09/15/12 12:15**

**Sample Container: Tedlar Bag 1L**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.8</b>		2.0		mg/m3			09/16/12 04:08	1
Toluene	ND		2.0		mg/m3			09/16/12 04:08	1
<b>Ethylbenzene</b>	<b>13</b>		2.0		mg/m3			09/16/12 04:08	1
<b>Xylenes, Total</b>	<b>31</b>		6.0		mg/m3			09/16/12 04:08	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 04:08	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 04:08	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.87</b>		0.63		ppm v/v			09/16/12 04:08	1
Toluene	ND		0.53		ppm v/v			09/16/12 04:08	1
<b>Ethylbenzene</b>	<b>3.0</b>		0.46		ppm v/v			09/16/12 04:08	1
<b>Xylenes, Total</b>	<b>7.2</b>		1.4		ppm v/v			09/16/12 04:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 04:08	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		09/16/12 04:08	1
Dibromofluoromethane (Surr)	106		80 - 120		09/16/12 04:08	1
Toluene-d8 (Surr)	109		80 - 120		09/16/12 04:08	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Client Sample ID: INF-2

Date Collected: 09/13/12 15:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 00:15	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 00:15	LB	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/13/12 15:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 00:41	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 00:41	LB	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/13/12 15:15

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 01:08	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 01:08	LB	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/13/12 15:15

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 00:48	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 00:48	AL	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/13/12 15:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 01:46	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 01:46	AL	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/13/12 15:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 02:15	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 02:15	AL	TAL IRV



# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Client Sample ID: INF-2

Date Collected: 09/13/12 17:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 02:43	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 02:43	AL	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/13/12 17:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 03:11	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 03:11	AL	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/13/12 19:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 03:40	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 03:40	AL	TAL IRV

## Client Sample ID: EW-2

Date Collected: 09/13/12 19:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23527-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 04:08	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 04:08	AL	TAL IRV

### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

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

**Lab Sample ID: MB 440-52288/4**

**Matrix: Air**

**Analysis Batch: 52288**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		mg/m3			09/15/12 21:38	1
Toluene	ND		1.0		mg/m3			09/15/12 21:38	1
Ethylbenzene	ND		1.0		mg/m3			09/15/12 21:38	1
Xylenes, Total	ND		3.0		mg/m3			09/15/12 21:38	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		mg/m3			09/15/12 21:38	1
tert-Butyl alcohol (TBA)	ND		100		mg/m3			09/15/12 21:38	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.31		ppm v/v			09/15/12 21:38	1
Toluene	ND		0.27		ppm v/v			09/15/12 21:38	1
Ethylbenzene	ND		0.23		ppm v/v			09/15/12 21:38	1
Xylenes, Total	ND		0.69		ppm v/v			09/15/12 21:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.28		ppm v/v			09/15/12 21:38	1
tert-Butyl alcohol (TBA)	ND		33		ppm v/v			09/15/12 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 21:38	1
Dibromofluoromethane (Surr)	97		80 - 120		09/15/12 21:38	1
Toluene-d8 (Surr)	97		80 - 120		09/15/12 21:38	1

**Lab Sample ID: LCS 440-52288/5**

**Matrix: Air**

**Analysis Batch: 52288**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.2		mg/m3		97	70 - 120
Toluene	25.0	28.2		mg/m3		113	70 - 120
Ethylbenzene	25.0	29.3		mg/m3		117	75 - 125
m,p-Xylene	50.0	60.9		mg/m3		122	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	18.7		mg/m3		75	60 - 135
o-Xylene	25.0	30.1		mg/m3		120	75 - 125
tert-Butyl alcohol (TBA)	125	182	*	mg/m3		146	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	7.57		ppm v/v		97	70 - 120
Toluene	6.6	7.48		ppm v/v		113	70 - 120
Ethylbenzene	5.8	6.76		ppm v/v		117	75 - 125
m,p-Xylene	12	14.0		ppm v/v		122	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	5.18		ppm v/v		75	60 - 135
o-Xylene	5.8	6.92		ppm v/v		120	75 - 125
tert-Butyl alcohol (TBA)	41	60.1	*	ppm v/v		146	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	95		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

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

**Lab Sample ID: 440-23525-A-8 DU**

**Matrix: Air**

**Analysis Batch: 52288**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		mg/m3		NC	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3			20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND *		ND *		mg/m3		NC	20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		ppm v/v		NC	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v			20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND *		ND *		ppm v/v		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	94		80 - 120

**Lab Sample ID: MB 440-52291/4**

**Matrix: Air**

**Analysis Batch: 52291**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		2.0		mg/m3			09/15/12 23:23	1
Toluene	ND		2.0		mg/m3			09/15/12 23:23	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 23:23	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 23:23	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 23:23	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 23:23	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.63		ppm v/v			09/15/12 23:23	1
Toluene	ND		0.53		ppm v/v			09/15/12 23:23	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 23:23	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 23:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 23:23	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 23:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		80 - 120		09/15/12 23:23	1
Dibromofluoromethane (Surr)	116		80 - 120		09/15/12 23:23	1
Toluene-d8 (Surr)	107		80 - 120		09/15/12 23:23	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

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

**Lab Sample ID: LCS 440-52291/5**

**Matrix: Air**

**Analysis Batch: 52291**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.4		mg/m3		106	70 - 120
Toluene	25.0	28.4		mg/m3		113	70 - 120
Ethylbenzene	25.0	27.5		mg/m3		110	75 - 125
m,p-Xylene	50.0	55.4		mg/m3		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	29.6		mg/m3		118	60 - 135
o-Xylene	25.0	28.0		mg/m3		112	75 - 125
tert-Butyl alcohol (TBA)	125	134		mg/m3		107	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	8.26		ppm v/v		106	70 - 120
Toluene	6.6	7.53		ppm v/v		113	70 - 120
Ethylbenzene	5.8	6.34		ppm v/v		110	75 - 125
m,p-Xylene	12	12.7		ppm v/v		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	8.21		ppm v/v		118	60 - 135
o-Xylene	5.8	6.44		ppm v/v		112	75 - 125
tert-Butyl alcohol (TBA)	41	44.1		ppm v/v		107	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	113		80 - 120
Toluene-d8 (Surr)	110		80 - 120

**Lab Sample ID: 440-23527-4 DU**

**Matrix: Air**

**Analysis Batch: 52291**

**Client Sample ID: EW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	2.9		3.70		mg/m3		24	20
Toluene	ND		ND		mg/m3		NC	20
Ethylbenzene	12		14.8	F	mg/m3		22	20
Xylenes, Total	26		33.3	F	mg/m3		25	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Benzene	0.92		1.16		ppm v/v		24	20
Toluene	ND		ND		ppm v/v		NC	20
Ethylbenzene	2.7		3.41	F	ppm v/v		22	20
Xylenes, Total	5.9		7.67	F	ppm v/v		25	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	112		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-52289/4**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		mg/m3			09/15/12 21:38	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		12		ppm v/v			09/15/12 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120		09/15/12 21:38	1
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 21:38	1
Toluene-d8 (Surr)	97		80 - 120		09/15/12 21:38	1

**Lab Sample ID: LCS 440-52289/6**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	636		mg/m3		127	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	156		ppm v/v		127	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: 440-23525-A-8 DU**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
Dibromofluoromethane (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	89		80 - 120
Toluene-d8 (Surr)	94		80 - 120

**Lab Sample ID: MB 440-52292/4**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 23:23	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-52292/4**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 23:23	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		80 - 120					09/15/12 23:23	1
4-Bromofluorobenzene (Surr)	96		80 - 120					09/15/12 23:23	1
Toluene-d8 (Surr)	107		80 - 120					09/15/12 23:23	1

**Lab Sample ID: LCS 440-52292/6**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	551		mg/m3		110	55 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	135		ppm v/v		110	55 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	104		80 - 120				
4-Bromofluorobenzene (Surr)	101		80 - 120				
Toluene-d8 (Surr)	110		80 - 120				

**Lab Sample ID: 440-23527-4 DU**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: EW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	1800		2310	F	mg/m3		24	20
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	440		564	F	ppm v/v		24	20
Surrogate	%Recovery	DU Qualifier	Limits					
Dibromofluoromethane (Surr)	104		80 - 120					
4-Bromofluorobenzene (Surr)	107		80 - 120					
Toluene-d8 (Surr)	112		80 - 120					

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## GC/MS VOA

### Analysis Batch: 52288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23525-A-8 DU	Duplicate	Total/NA	Air	8260B	
440-23527-1	INF-2	Total/NA	Air	8260B	
440-23527-2	EW-2	Total/NA	Air	8260B	
440-23527-3	INF-2	Total/NA	Air	8260B	
LCS 440-52288/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52288/4	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23525-A-8 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-1	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-2	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-3	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52289/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52289/4	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

### Analysis Batch: 52291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23527-4	EW-2	Total/NA	Air	8260B	
440-23527-4 DU	EW-2	Total/NA	Air	8260B	
440-23527-5	INF-2	Total/NA	Air	8260B	
440-23527-6	EW-2	Total/NA	Air	8260B	
440-23527-7	INF-2	Total/NA	Air	8260B	
440-23527-8	EW-2	Total/NA	Air	8260B	
440-23527-9	INF-2	Total/NA	Air	8260B	
440-23527-10	EW-2	Total/NA	Air	8260B	
LCS 440-52291/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52291/4	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23527-4	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-4 DU	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-5	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-6	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-7	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-8	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-9	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-10	EW-2	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52292/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## GC/MS VOA (Continued)

### Analysis Batch: 52292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-52292/4	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

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## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	Duplicate RPD exceeds the control limit

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23527-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-12
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

440-23527  
146784



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

CALSCIENCE ( )

SPL ( )

XENCO ( )

TEST AMERICA ( )

OTHER ( )

Please Check Appropriate Box:

ENV. SERVICES     MOTIVA RETAIL     SHELL RETAIL

MOTIVA SD&CM     CONSULTANT     LUBES

SHELL PIPELINE     OTHER \_\_\_\_\_

Print Bill To Contact Name: Peter Schaefer 240523

INCIDENT # (ENV SERVICES) 9 8 9 9 5 8 4 0

PO # 2 4 0 5 2 3    SAP # 1 3 5 7 8 2

DATE: \_\_\_\_\_

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: CRAW

ADDRESS: 5900 Hollis St, Suite A, Emeryville, CA 94608

PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer

TELEPHONE: 510-420-3319    FAX: 510-420-9170    E-MAIL: pschaefer@croworld.com, lrndon@croworld.com

SITE ADDRESS: Street and City: 4212 First Street, Pleasanton

State: CA    GLOBAL ID NO.: RQ0000360

EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville

PHONE NO.: 510-420-0700    E-MAIL: emeryville-edf@croworld.com

CONSULTANT PROJECT NO.: 240523-95-12.06

SAMPLER NAME(S) (Print): RADON / McMAINS

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS

LA - RWQCB REPORT FORMAT     UST AGENCY

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

Copy of final report to Shell.Lab.Billing@croworld.com; jradon@croworld.com; mlundberg@croworld.com; pschaefer@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TPH -GRO, Purgeable (8260B)	BTX + MTBE + TBA (8260B)	REQUESTED ANALYSIS										TEMPERATURE ON RECEIPT °C	
X	X												Container PID Readings or Laboratory Notes  TEDLAR BAGS

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
	DATE	TIME		HCL	HNG3	H2SO4	NONE	OTHER	
INF-2	9/13/12	15:00	VAPOR						1
EW-2	9/13/12	15:00							
INF-2	9/13/12	15:15							
EW-2	9/13/12	15:15							
INF-2	9/13/12	15:30							
EW-2		15:30							
INF-2		17:00							
EW-2		17:00							
INF-2		19:00							
EW-2		19:00							

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/14/12	Time: 1700
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/15/12	Time: 0900
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/15/12	Time: 1215

9/21/2012

06/2/06 Revision

2430



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23527-1

**Login Number: 23527**

**List Number: 1**

**Creator: Robb, Kathleen**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Radon/McMains
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
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 Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23525-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/28/2012 5:06:43 PM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23525-1	EW-1	Air	09/14/12 13:45	09/15/12 12:15
440-23525-2	INF-2	Air	09/14/12 13:45	09/15/12 12:15
440-23525-3	EW-1	Air	09/14/12 15:30	09/15/12 12:15
440-23525-4	EW-1 M	Air	09/14/12 15:30	09/15/12 12:15
440-23525-5	INF-2	Air	09/14/12 15:30	09/15/12 12:15
440-23525-6	EW-1	Air	09/14/12 16:30	09/15/12 12:15
440-23525-7	INF-2	Air	09/14/12 16:30	09/15/12 12:15
440-23525-8	EFF	Air	09/14/12 16:30	09/15/12 12:15

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

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**Job ID: 440-23525-1**

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**Laboratory: TestAmerica Irvine**

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**Narrative**

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**Job Narrative**  
**440-23525-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/15/2012 12:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

**GC/MS VOA**

Method(s) 8260B: The laboratory control sample (LCS) for batch 52288 exceeded control limit for the following analyte: 2-Methyl-2-Propanol. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

**Air - GC VOA**

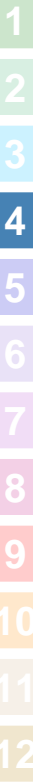
No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.





# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23525-1**

Date Collected: 09/14/12 13:45

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>510</b>		100		mg/m3			09/16/12 03:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>120</b>		24		ppm v/v			09/16/12 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 120		09/16/12 03:21	1
4-Bromofluorobenzene (Surr)	94		80 - 120		09/16/12 03:21	1
Toluene-d8 (Surr)	95		80 - 120		09/16/12 03:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 03:21	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 03:21	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 03:21	1
Toluene	ND		2.0		mg/m3			09/16/12 03:21	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 03:21	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 03:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 03:21	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 03:21	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 03:21	1
Toluene	ND		0.53		ppm v/v			09/16/12 03:21	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 03:21	1
tert-Butyl alcohol (TBA)	ND *		66		ppm v/v			09/16/12 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120		09/16/12 03:21	1
Dibromofluoromethane (Surr)	95		80 - 120		09/16/12 03:21	1
Toluene-d8 (Surr)	95		80 - 120		09/16/12 03:21	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23525-2**

Date Collected: 09/14/12 13:45

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>560</b>		100		mg/m3			09/16/12 03:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>140</b>		24		ppm v/v			09/16/12 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		09/16/12 03:47	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/16/12 03:47	1
Toluene-d8 (Surr)	94		80 - 120		09/16/12 03:47	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23525-2

Date Collected: 09/14/12 13:45

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 03:47	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 03:47	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 03:47	1
Toluene	ND		2.0		mg/m3			09/16/12 03:47	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 03:47	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 03:47	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 03:47	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 03:47	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 03:47	1
Toluene	ND		0.53		ppm v/v			09/16/12 03:47	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 03:47	1
tert-Butyl alcohol (TBA)	ND *		66		ppm v/v			09/16/12 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		09/16/12 03:47	1
Dibromofluoromethane (Surr)	99		80 - 120		09/16/12 03:47	1
Toluene-d8 (Surr)	94		80 - 120		09/16/12 03:47	1

## Client Sample ID: EW-1

Lab Sample ID: 440-23525-3

Date Collected: 09/14/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>560</b>		100		mg/m3			09/16/12 04:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>140</b>		24		ppm v/v			09/16/12 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120		09/16/12 04:13	1
4-Bromofluorobenzene (Surr)	95		80 - 120		09/16/12 04:13	1
Toluene-d8 (Surr)	97		80 - 120		09/16/12 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 04:13	1
<b>Ethylbenzene</b>	<b>2.8</b>		2.0		mg/m3			09/16/12 04:13	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 04:13	1
Toluene	ND		2.0		mg/m3			09/16/12 04:13	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 04:13	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 04:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 04:13	1
<b>Ethylbenzene</b>	<b>0.64</b>		0.46		ppm v/v			09/16/12 04:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 04:13	1
Toluene	ND		0.53		ppm v/v			09/16/12 04:13	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 04:13	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Client Sample ID: EW-1

Lab Sample ID: 440-23525-3

Date Collected: 09/14/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND	*	66		ppm v/v			09/16/12 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120					09/16/12 04:13	1
Dibromofluoromethane (Surr)	98		80 - 120					09/16/12 04:13	1
Toluene-d8 (Surr)	97		80 - 120					09/16/12 04:13	1

## Client Sample ID: EW-1 M

Lab Sample ID: 440-23525-4

Date Collected: 09/14/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 25.3 MOD - Non-Methane/Non-Ethane Organic Compound Emissions (Low Concentrations)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	11		4.0		ppm v/v			09/17/12 11:54	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23525-5

Date Collected: 09/14/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2100		100		mg/m3			09/16/12 04:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	510		24		ppm v/v			09/16/12 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 120					09/16/12 04:40	1
4-Bromofluorobenzene (Surr)	91		80 - 120					09/16/12 04:40	1
Toluene-d8 (Surr)	98		80 - 120					09/16/12 04:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.3		2.0		mg/m3			09/16/12 04:40	1
Ethylbenzene	13		2.0		mg/m3			09/16/12 04:40	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 04:40	1
Toluene	ND		2.0		mg/m3			09/16/12 04:40	1
Xylenes, Total	28		6.0		mg/m3			09/16/12 04:40	1
tert-Butyl alcohol (TBA)	ND	*	200		mg/m3			09/16/12 04:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0		0.63		ppm v/v			09/16/12 04:40	1
Ethylbenzene	3.0		0.46		ppm v/v			09/16/12 04:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 04:40	1
Toluene	ND		0.53		ppm v/v			09/16/12 04:40	1
Xylenes, Total	6.5		1.4		ppm v/v			09/16/12 04:40	1
tert-Butyl alcohol (TBA)	ND	*	66		ppm v/v			09/16/12 04:40	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23525-5

Date Collected: 09/14/12 15:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		09/16/12 04:40	1
Dibromofluoromethane (Surr)	102		80 - 120		09/16/12 04:40	1
Toluene-d8 (Surr)	98		80 - 120		09/16/12 04:40	1

## Client Sample ID: EW-1

Lab Sample ID: 440-23525-6

Date Collected: 09/14/12 16:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>520</b>		100		mg/m3			09/16/12 05:06	1
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>130</b>		24		ppm v/v			09/16/12 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 120		09/16/12 05:06	1
4-Bromofluorobenzene (Surr)	92		80 - 120		09/16/12 05:06	1
Toluene-d8 (Surr)	99		80 - 120		09/16/12 05:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 05:06	1
<b>Ethylbenzene</b>	<b>3.1</b>		2.0		mg/m3			09/16/12 05:06	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 05:06	1
Toluene	ND		2.0		mg/m3			09/16/12 05:06	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 05:06	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 05:06	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 05:06	1
<b>Ethylbenzene</b>	<b>0.71</b>		0.46		ppm v/v			09/16/12 05:06	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 05:06	1
Toluene	ND		0.53		ppm v/v			09/16/12 05:06	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 05:06	1
tert-Butyl alcohol (TBA)	ND *		66		ppm v/v			09/16/12 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120		09/16/12 05:06	1
Dibromofluoromethane (Surr)	102		80 - 120		09/16/12 05:06	1
Toluene-d8 (Surr)	99		80 - 120		09/16/12 05:06	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23525-7

Date Collected: 09/14/12 16:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>660</b>		100		mg/m3			09/16/12 05:33	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23525-7

Date Collected: 09/14/12 16:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>160</b>		24		ppm v/v			09/16/12 05:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	101		80 - 120					09/16/12 05:33	1
4-Bromofluorobenzene (Surr)	94		80 - 120					09/16/12 05:33	1
Toluene-d8 (Surr)	98		80 - 120					09/16/12 05:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 05:33	1
<b>Ethylbenzene</b>	<b>3.6</b>		2.0		mg/m3			09/16/12 05:33	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 05:33	1
Toluene	ND		2.0		mg/m3			09/16/12 05:33	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 05:33	1
tert-Butyl alcohol (TBA)	ND *		200		mg/m3			09/16/12 05:33	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Benzene	ND		0.63		ppm v/v			09/16/12 05:33	1
<b>Ethylbenzene</b>	<b>0.83</b>		0.46		ppm v/v			09/16/12 05:33	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 05:33	1
Toluene	ND		0.53		ppm v/v			09/16/12 05:33	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 05:33	1
tert-Butyl alcohol (TBA)	ND *		66		ppm v/v			09/16/12 05:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		80 - 120					09/16/12 05:33	1
Dibromofluoromethane (Surr)	101		80 - 120					09/16/12 05:33	1
Toluene-d8 (Surr)	98		80 - 120					09/16/12 05:33	1

## Client Sample ID: EFF

Lab Sample ID: 440-23525-8

Date Collected: 09/14/12 16:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 23:17	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 23:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	99		80 - 120					09/15/12 23:17	1
4-Bromofluorobenzene (Surr)	86		80 - 120					09/15/12 23:17	1
Toluene-d8 (Surr)	100		80 - 120					09/15/12 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 23:17	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 23:17	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 23:17	1
Toluene	ND		2.0		mg/m3			09/15/12 23:17	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 23:17	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

**Client Sample ID: EFF**

**Lab Sample ID: 440-23525-8**

**Date Collected: 09/14/12 16:30**

**Matrix: Air**

**Date Received: 09/15/12 12:15**

**Sample Container: Tedlar Bag 1L**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND	*	200		mg/m3			09/15/12 23:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 23:17	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 23:17	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 23:17	1
Toluene	ND		0.53		ppm v/v			09/15/12 23:17	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 23:17	1
tert-Butyl alcohol (TBA)	ND	*	66		ppm v/v			09/15/12 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		80 - 120					09/15/12 23:17	1
Dibromofluoromethane (Surr)	99		80 - 120					09/15/12 23:17	1
Toluene-d8 (Surr)	100		80 - 120					09/15/12 23:17	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Client Sample ID: EW-1

Date Collected: 09/14/12 13:45

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 03:21	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 03:21	LB	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/14/12 13:45

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 03:47	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 03:47	LB	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 15:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 04:13	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 04:13	LB	TAL IRV

## Client Sample ID: EW-1 M

Date Collected: 09/14/12 15:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	25.3 MOD		1	1 mL	1 mL	2678	09/17/12 11:54	EI	TAL LA

## Client Sample ID: INF-2

Date Collected: 09/14/12 15:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 04:40	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 04:40	LB	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 16:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 05:06	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 05:06	LB	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Client Sample ID: INF-2

Date Collected: 09/14/12 16:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/16/12 05:33	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/16/12 05:33	LB	TAL IRV

## Client Sample ID: EFF

Date Collected: 09/14/12 16:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23525-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52288	09/15/12 23:17	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52289	09/15/12 23:17	LB	TAL IRV

### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

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

**Lab Sample ID: MB 440-52288/4**

**Matrix: Air**

**Analysis Batch: 52288**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		mg/m3			09/15/12 21:38	1
Ethylbenzene	ND		1.0		mg/m3			09/15/12 21:38	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		mg/m3			09/15/12 21:38	1
Toluene	ND		1.0		mg/m3			09/15/12 21:38	1
Xylenes, Total	ND		3.0		mg/m3			09/15/12 21:38	1
tert-Butyl alcohol (TBA)	ND		100		mg/m3			09/15/12 21:38	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.31		ppm v/v			09/15/12 21:38	1
Ethylbenzene	ND		0.23		ppm v/v			09/15/12 21:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.28		ppm v/v			09/15/12 21:38	1
Toluene	ND		0.27		ppm v/v			09/15/12 21:38	1
Xylenes, Total	ND		0.69		ppm v/v			09/15/12 21:38	1
tert-Butyl alcohol (TBA)	ND		33		ppm v/v			09/15/12 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 21:38	1
Dibromofluoromethane (Surr)	97		80 - 120		09/15/12 21:38	1
Toluene-d8 (Surr)	97		80 - 120		09/15/12 21:38	1

**Lab Sample ID: LCS 440-52288/5**

**Matrix: Air**

**Analysis Batch: 52288**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.2		mg/m3		97	70 - 120
Ethylbenzene	25.0	29.3		mg/m3		117	75 - 125
m,p-Xylene	50.0	60.9		mg/m3		122	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	18.7		mg/m3		75	60 - 135
o-Xylene	25.0	30.1		mg/m3		120	75 - 125
Toluene	25.0	28.2		mg/m3		113	70 - 120
tert-Butyl alcohol (TBA)	125	182	*	mg/m3		146	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	7.57		ppm v/v		97	70 - 120
Ethylbenzene	5.8	6.76		ppm v/v		117	75 - 125
m,p-Xylene	12	14.0		ppm v/v		122	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	5.18		ppm v/v		75	60 - 135
o-Xylene	5.8	6.92		ppm v/v		120	75 - 125
Toluene	6.6	7.48		ppm v/v		113	70 - 120
tert-Butyl alcohol (TBA)	41	60.1	*	ppm v/v		146	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		80 - 120
Dibromofluoromethane (Surr)	96		80 - 120
Toluene-d8 (Surr)	95		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

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

**Lab Sample ID: 440-23525-8 DU**

**Matrix: Air**

**Analysis Batch: 52288**

**Client Sample ID: EFF**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
Toluene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
tert-Butyl alcohol (TBA)	ND	*	ND	*	mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
Toluene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
tert-Butyl alcohol (TBA)	ND	*	ND	*	ppm v/v		NC	20

Surrogate	%Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	94		80 - 120

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-52289/4**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		mg/m3			09/15/12 21:38	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		12		ppm v/v			09/15/12 21:38	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120		09/15/12 21:38	1
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 21:38	1
Toluene-d8 (Surr)	97		80 - 120		09/15/12 21:38	1

**Lab Sample ID: LCS 440-52289/6**

**Matrix: Air**

**Analysis Batch: 52289**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	636		mg/m3		127	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	156		ppm v/v		127	55 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID:** LCS 440-52289/6  
**Matrix:** Air  
**Analysis Batch:** 52289

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

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	95		80 - 120
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID:** 440-23525-8 DU  
**Matrix:** Air  
**Analysis Batch:** 52289

**Client Sample ID:** EFF  
**Prep Type:** Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

Surrogate	DU		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	89		80 - 120
Toluene-d8 (Surr)	94		80 - 120

## Method: 25.3 MOD - Non-Methane/Non-Ethane Organic Compound Emissions (Low Concentrations)

**Lab Sample ID:** MB 340-2678/10  
**Matrix:** Air  
**Analysis Batch:** 2678

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methane (FID)	ND		4.0		ppm v/v			09/17/12 08:11	1

**Lab Sample ID:** LCS 340-2678/4  
**Matrix:** Air  
**Analysis Batch:** 2678

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Methane (TCD)	99000	99600		ppm v/v		101	80 - 120

**Lab Sample ID:** LCS 340-2678/6  
**Matrix:** Air  
**Analysis Batch:** 2678

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Methane (FID)	248	270		ppm v/v		109	80 - 120

## QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

### Method: 25.3 MOD - Non-Methane/Non-Ethane Organic Compound Emissions (Low Concentrations) (Continued)

**Lab Sample ID: LCSD 340-2678/5**

**Matrix: Air**

**Analysis Batch: 2678**

**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
Methane (TCD)	99000	99900		ppm v/v		101	80 - 120	0	20

**Lab Sample ID: LCSD 340-2678/7**

**Matrix: Air**

**Analysis Batch: 2678**

**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
Methane (FID)	248	270		ppm v/v		109	80 - 120	0	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## GC/MS VOA

### Analysis Batch: 52288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23525-1	EW-1	Total/NA	Air	8260B	
440-23525-2	INF-2	Total/NA	Air	8260B	
440-23525-3	EW-1	Total/NA	Air	8260B	
440-23525-5	INF-2	Total/NA	Air	8260B	
440-23525-6	EW-1	Total/NA	Air	8260B	
440-23525-7	INF-2	Total/NA	Air	8260B	
440-23525-8	EFF	Total/NA	Air	8260B	
440-23525-8 DU	EFF	Total/NA	Air	8260B	
LCS 440-52288/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52288/4	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23525-1	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-2	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-3	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-5	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-6	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-7	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-8	EFF	Total/NA	Air	8260B/CA_LUFT MS	
440-23525-8 DU	EFF	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52289/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52289/4	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

## Air - GC VOA

### Analysis Batch: 2678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23525-4	EW-1 M	Total/NA	Air	25.3 MOD	
LCS 340-2678/4	Lab Control Sample	Total/NA	Air	25.3 MOD	
LCS 340-2678/6	Lab Control Sample	Total/NA	Air	25.3 MOD	
LCSD 340-2678/5	Lab Control Sample Dup	Total/NA	Air	25.3 MOD	
LCSD 340-2678/7	Lab Control Sample Dup	Total/NA	Air	25.3 MOD	
MB 340-2678/10	Method Blank	Total/NA	Air	25.3 MOD	

# Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23525-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-13
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

## Laboratory: TestAmerica Costa Mesa

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-13
Florida	NELAC	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAC	6	01948	06-30-13
New York	NELAC	2	11851	04-01-13
Oregon	NELAC	10	CA200013	07-19-13
Utah	NELAC	8	CA000032012-1	06-30-13
Washington	State Program	10	C579	11-29-12

440-23525

140784



# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**

CALSCIENCE ( )

SPL ( )

XENCO ( )

TEST AMERICA ( )

OTHER ( )

**Please Check Appropriate Box:**

ENV. SERVICES     MOTIVA RETAIL     SHELL RETAIL

MOTIVA SD&CM     CONSULTANT     LUBES

SHELL PIPELINE     OTHER

**Print Bill To Contact Name:**  
Peter Schaefer 240523

**INCIDENT # (ENV SERVICES)**  
9 8 9 9 5 8 4 0

**PO #** 2 4 0 5 2 3    **SAP #** 1 3 5 7 8 2

CHECK IF NO INCIDENT # APPLIES

DATE: \_\_\_\_\_

PAGE 1 of 1

**SAMPLING COMPANY:**  
Conestoga-Rovers & Associates

**LOG CODE:**  
CRAW

**ADDRESS:**  
5900 Hollis St, Suite A, Emeryville, CA 94608

**PROJECT CONTACT (Hardcopy or PDF Report to):**  
Peter Schaefer

**TELEPHONE:** 510-420-3319    **FAX:** 510-420-9170    **E-MAIL:** pschaefer@croworld.com, pcrow@crawworld.com

**TURNAROUND TIME (CALENDAR DAYS):**  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SITE ADDRESS: Street and City:**  
4212 First Street, Pleasanton

**EDF DELIVERABLE TO (Name, Company, Office Location):**  
Brenda Carter, CRA, Emeryville

**PHONE NO.:** 510-420-0700

**State:** CA    **GLOBAL ID NO.:** RO0000360

**E-MAIL:** bcarterwillard@croworld.com    **CONSULTANT PROJECT NO.:** 240523-95-12.06

**SAMPLER NAME(S) (Print):** RADON / McMAINS

**LAB USE ONLY**

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@croworld.com;  
jradon@croworld.com; mlundberg@croworld.com;  
pschaefer@croworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

Page #	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH - GRO, Purgeable (8260B)	BTEX + MTBE + TBA (8260B)	CHA by SCAQMD 24.3 (M)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER						
20 of 22	EW-1	9/14/12	13:45	VAPOR				X			X	X			
	INF-2	9/14/12	13:45								X	X			
	EW-1		15:30								X	X			
	EW-1M		15:30									X			
	INF-2		15:30								X	X			
	EW-1		16:30								X	X			
	INF-2		16:30								X	X			
	EFF		16:30								X	X			

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/14/12	Time: 17:00
Relinquished by: (Signature)	Received by: (Signature)	Date: 9/14/12	Time: 17:20
Relinquished by: (Signature)	Received by: (Signature)	Date: 9/15/12	Time: 12:15

24.31

06/2006 Revision

9/28/2012





## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23525-1

**Login Number: 23525**

**List Number: 1**

**Creator: Robb, Kathleen**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Radon/McMains
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23525-1

**Login Number: 23525**

**List Number: 1**

**Creator: Morales, Sergio**

**List Source: TestAmerica Costa Mesa**

**List Creation: 09/17/12 12:42 PM**

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-23526-1

Client Project/Site: 4212 First St., Pleasanton, CA

For:

Conestoga-Rovers & Associates, Inc.

5900 Hollis Street

Suite A

Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:

9/28/2012 5:17:22 PM

Philip Sanelle

Project Manager I

[philip.sanelle@testamericainc.com](mailto:philip.sanelle@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-23526-1	EW-2M	Air	09/13/12 19:00	09/15/12 12:15
440-23526-2	EFF	Air	09/13/12 19:00	09/15/12 12:15
440-23526-3	INF-2	Air	09/13/12 09:00	09/15/12 12:15
440-23526-4	EW-1	Air	09/14/12 09:00	09/15/12 12:15
440-23526-5	INF-2	Air	09/14/12 10:15	09/15/12 12:15
440-23526-6	EW-1	Air	09/14/12 10:15	09/15/12 12:15
440-23526-7	INF-2	Air	09/14/12 11:30	09/15/12 12:15
440-23526-8	EW-1	Air	09/14/12 11:30	09/15/12 12:15
440-23526-9	INF-2	Air	09/14/12 12:45	09/15/12 12:15
440-23526-10	EW-1	Air	09/14/12 12:45	09/15/12 12:15

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

---

**Job ID: 440-23526-1**

---

**Laboratory: TestAmerica Irvine**

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**Narrative**

**Job Narrative  
440-23526-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/15/2012 12:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

**GC/MS VOA**

Method(s) 8260B/CA\_LUFTMS: RPD exceeded the acceptance limit due to sample matrix effects

Method(s) 8260B: Due to the low levels of analytes in the samples, the duplicate RPD calculation does not provide useful information

No other analytical or quality issues were noted.

**Air - GC VOA**

Method(s) 25.3 MOD: The following sample was received and analyzed after holding time expired: EW-2M (440-23526-1).

No other analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

**Client Sample ID: EW-2M**  
**Date Collected: 09/13/12 19:00**  
**Date Received: 09/15/12 12:15**  
**Sample Container: Tedlar Bag 1L**

**Lab Sample ID: 440-23526-1**  
**Matrix: Air**

**Method: 25.3 MOD - Non-Methane/Non-Ethane Organic Compound Emissions (Low Concentrations)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	24	H	4.0		ppm v/v			09/17/12 12:12	1

**Client Sample ID: EFF**  
**Date Collected: 09/13/12 19:00**  
**Date Received: 09/15/12 12:15**  
**Sample Container: Tedlar Bag 1L**

**Lab Sample ID: 440-23526-2**  
**Matrix: Air**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 17:19	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		80 - 120					09/15/12 17:19	1
4-Bromofluorobenzene (Surr)	89		80 - 120					09/15/12 17:19	1
Toluene-d8 (Surr)	96		80 - 120					09/15/12 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 17:19	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 17:19	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 17:19	1
Toluene	ND		2.0		mg/m3			09/15/12 17:19	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 17:19	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 17:19	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 17:19	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 17:19	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 17:19	1
Toluene	ND		0.53		ppm v/v			09/15/12 17:19	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 17:19	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120					09/15/12 17:19	1
Dibromofluoromethane (Surr)	106		80 - 120					09/15/12 17:19	1
Toluene-d8 (Surr)	96		80 - 120					09/15/12 17:19	1

**Client Sample ID: INF-2**  
**Date Collected: 09/13/12 09:00**  
**Date Received: 09/15/12 12:15**  
**Sample Container: Tedlar Bag 1L**

**Lab Sample ID: 440-23526-3**  
**Matrix: Air**

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	140		100		mg/m3			09/16/12 04:36	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	33		24		ppm v/v			09/16/12 04:36	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Client Sample ID: INF-2

Lab Sample ID: 440-23526-3

Date Collected: 09/13/12 09:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		80 - 120		09/16/12 04:36	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/16/12 04:36	1
Toluene-d8 (Surr)	109		80 - 120		09/16/12 04:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 04:36	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 04:36	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 04:36	1
Toluene	ND		2.0		mg/m3			09/16/12 04:36	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 04:36	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 04:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 04:36	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 04:36	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 04:36	1
Toluene	ND		0.53		ppm v/v			09/16/12 04:36	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 04:36	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		09/16/12 04:36	1
Dibromofluoromethane (Surr)	116		80 - 120		09/16/12 04:36	1
Toluene-d8 (Surr)	109		80 - 120		09/16/12 04:36	1

## Client Sample ID: EW-1

Lab Sample ID: 440-23526-4

Date Collected: 09/14/12 09:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/16/12 05:05	1
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/16/12 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		80 - 120		09/16/12 05:05	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 05:05	1
Toluene-d8 (Surr)	108		80 - 120		09/16/12 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 05:05	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 05:05	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 05:05	1
Toluene	ND		2.0		mg/m3			09/16/12 05:05	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 05:05	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 05:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 05:05	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Client Sample ID: EW-1

Lab Sample ID: 440-23526-4

Date Collected: 09/14/12 09:00

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 05:05	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 05:05	1
Toluene	ND		0.53		ppm v/v			09/16/12 05:05	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 05:05	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 05:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		80 - 120					09/16/12 05:05	1
Dibromofluoromethane (Surr)	116		80 - 120					09/16/12 05:05	1
Toluene-d8 (Surr)	108		80 - 120					09/16/12 05:05	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23526-5

Date Collected: 09/14/12 10:15

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>280</b>		100		mg/m3			09/16/12 05:34	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>67</b>		24		ppm v/v			09/16/12 05:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	114		80 - 120					09/16/12 05:34	1
4-Bromofluorobenzene (Surr)	101		80 - 120					09/16/12 05:34	1
Toluene-d8 (Surr)	111		80 - 120					09/16/12 05:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 05:34	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 05:34	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 05:34	1
Toluene	ND		2.0		mg/m3			09/16/12 05:34	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 05:34	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 05:34	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Benzene	ND		0.63		ppm v/v			09/16/12 05:34	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 05:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 05:34	1
Toluene	ND		0.53		ppm v/v			09/16/12 05:34	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 05:34	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 05:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		80 - 120					09/16/12 05:34	1
Dibromofluoromethane (Surr)	114		80 - 120					09/16/12 05:34	1
Toluene-d8 (Surr)	111		80 - 120					09/16/12 05:34	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23526-6**

Date Collected: 09/14/12 10:15

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>180</b>		100		mg/m3			09/16/12 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>45</b>		24		ppm v/v			09/16/12 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		80 - 120		09/16/12 06:03	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 06:03	1
Toluene-d8 (Surr)	108		80 - 120		09/16/12 06:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 06:03	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 06:03	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 06:03	1
Toluene	ND		2.0		mg/m3			09/16/12 06:03	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 06:03	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 06:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 06:03	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 06:03	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 06:03	1
Toluene	ND		0.53		ppm v/v			09/16/12 06:03	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 06:03	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 06:03	1
Dibromofluoromethane (Surr)	117		80 - 120		09/16/12 06:03	1
Toluene-d8 (Surr)	108		80 - 120		09/16/12 06:03	1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23526-7**

Date Collected: 09/14/12 11:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>250</b>		100		mg/m3			09/16/12 06:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>61</b>		24		ppm v/v			09/16/12 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		80 - 120		09/16/12 06:31	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 06:31	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 06:31	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

**Client Sample ID: INF-2**

**Lab Sample ID: 440-23526-7**

Date Collected: 09/14/12 11:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 06:31	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 06:31	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 06:31	1
Toluene	ND		2.0		mg/m3			09/16/12 06:31	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 06:31	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 06:31	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 06:31	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 06:31	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 06:31	1
Toluene	ND		0.53		ppm v/v			09/16/12 06:31	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 06:31	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		09/16/12 06:31	1
Dibromofluoromethane (Surr)	117		80 - 120		09/16/12 06:31	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 06:31	1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23526-8**

Date Collected: 09/14/12 11:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>260</b>		100		mg/m3			09/16/12 07:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>63</b>		24		ppm v/v			09/16/12 07:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		80 - 120		09/16/12 07:00	1
4-Bromofluorobenzene (Surr)	107		80 - 120		09/16/12 07:00	1
Toluene-d8 (Surr)	111		80 - 120		09/16/12 07:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 07:00	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 07:00	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 07:00	1
Toluene	ND		2.0		mg/m3			09/16/12 07:00	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 07:00	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 07:00	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 07:00	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 07:00	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 07:00	1
Toluene	ND		0.53		ppm v/v			09/16/12 07:00	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 07:00	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Client Sample ID: EW-1

Lab Sample ID: 440-23526-8

Date Collected: 09/14/12 11:30

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 07:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		80 - 120					09/16/12 07:00	1
Dibromofluoromethane (Surr)	116		80 - 120					09/16/12 07:00	1
Toluene-d8 (Surr)	111		80 - 120					09/16/12 07:00	1

## Client Sample ID: INF-2

Lab Sample ID: 440-23526-9

Date Collected: 09/14/12 12:45

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

### Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>560</b>		100		mg/m3			09/16/12 08:37	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<b>Volatile Fuel Hydrocarbons (C4-C12)</b>	<b>140</b>		24		ppm v/v			09/16/12 08:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane (Surr)	107		80 - 120					09/16/12 08:37	1
4-Bromofluorobenzene (Surr)	108		80 - 120					09/16/12 08:37	1
Toluene-d8 (Surr)	114		80 - 120					09/16/12 08:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 08:37	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 08:37	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 08:37	1
Toluene	ND		2.0		mg/m3			09/16/12 08:37	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 08:37	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 08:37	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Benzene	ND		0.63		ppm v/v			09/16/12 08:37	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 08:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 08:37	1
Toluene	ND		0.53		ppm v/v			09/16/12 08:37	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 08:37	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 08:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	108		80 - 120					09/16/12 08:37	1
Dibromofluoromethane (Surr)	107		80 - 120					09/16/12 08:37	1
Toluene-d8 (Surr)	114		80 - 120					09/16/12 08:37	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

**Client Sample ID: EW-1**

**Lab Sample ID: 440-23526-10**

Date Collected: 09/14/12 12:45

Matrix: Air

Date Received: 09/15/12 12:15

Sample Container: Tedlar Bag 1L

**Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	330		100		mg/m3			09/16/12 07:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	81		24		ppm v/v			09/16/12 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		80 - 120		09/16/12 07:57	1
4-Bromofluorobenzene (Surr)	106		80 - 120		09/16/12 07:57	1
Toluene-d8 (Surr)	113		80 - 120		09/16/12 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/16/12 07:57	1
Ethylbenzene	ND		2.0		mg/m3			09/16/12 07:57	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/16/12 07:57	1
Toluene	ND		2.0		mg/m3			09/16/12 07:57	1
Xylenes, Total	ND		6.0		mg/m3			09/16/12 07:57	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/16/12 07:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/16/12 07:57	1
Ethylbenzene	ND		0.46		ppm v/v			09/16/12 07:57	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/16/12 07:57	1
Toluene	ND		0.53		ppm v/v			09/16/12 07:57	1
Xylenes, Total	ND		1.4		ppm v/v			09/16/12 07:57	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/16/12 07:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		09/16/12 07:57	1
Dibromofluoromethane (Surr)	117		80 - 120		09/16/12 07:57	1
Toluene-d8 (Surr)	113		80 - 120		09/16/12 07:57	1

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Client Sample ID: EW-2M

Date Collected: 09/13/12 19:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	25.3 MOD		1	1 mL	1 mL	2678	09/17/12 12:12	EI	TAL LA

## Client Sample ID: EFF

Date Collected: 09/13/12 19:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52200	09/15/12 17:19	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52201	09/15/12 17:19	LB	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/13/12 09:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 04:36	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 04:36	AL	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 09:00

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 05:05	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 05:05	AL	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/14/12 10:15

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 05:34	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 05:34	AL	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 10:15

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 06:03	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 06:03	AL	TAL IRV

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Client Sample ID: INF-2

Date Collected: 09/14/12 11:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 06:31	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 06:31	AL	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 11:30

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 07:00	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 07:00	AL	TAL IRV

## Client Sample ID: INF-2

Date Collected: 09/14/12 12:45

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 08:37	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 08:37	AL	TAL IRV

## Client Sample ID: EW-1

Date Collected: 09/14/12 12:45

Date Received: 09/15/12 12:15

## Lab Sample ID: 440-23526-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 cc	10 mL	52291	09/16/12 07:57	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTMS		1	5 cc	10 mL	52292	09/16/12 07:57	AL	TAL IRV

### Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL LA = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

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

Lab Sample ID: MB 440-52200/5

Matrix: Air

Analysis Batch: 52200

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		mg/m3			09/15/12 09:55	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 09:55	1
Toluene	ND		2.0		mg/m3			09/15/12 09:55	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.63		ppm v/v			09/15/12 09:55	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 09:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 09:55	1
Toluene	ND		0.53		ppm v/v			09/15/12 09:55	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 09:55	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

Lab Sample ID: LCS 440-52200/6

Matrix: Air

Analysis Batch: 52200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	20.9		mg/m3		84	70 - 120
Ethylbenzene	25.0	26.2		mg/m3		105	75 - 125
m,p-Xylene	50.0	54.2		mg/m3		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	17.4		mg/m3		70	60 - 135
o-Xylene	25.0	25.8		mg/m3		103	75 - 125
Toluene	25.0	24.1		mg/m3		96	70 - 120
tert-Butyl alcohol (TBA)	125	157		mg/m3		125	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	6.54		ppm v/v		84	70 - 120
Ethylbenzene	5.8	6.04		ppm v/v		105	75 - 125
m,p-Xylene	12	12.5		ppm v/v		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	4.82		ppm v/v		70	60 - 135
o-Xylene	5.8	5.93		ppm v/v		103	75 - 125
Toluene	6.6	6.40		ppm v/v		96	70 - 120
tert-Butyl alcohol (TBA)	41	51.6		ppm v/v		125	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	93		80 - 120



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

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

**Lab Sample ID: 440-23457-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52200**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		mg/m3		NC	20
Ethylbenzene	ND		ND		mg/m3		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
Toluene	ND		ND		mg/m3		NC	20
Xylenes, Total	ND		ND		mg/m3		NC	20
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Benzene	ND		ND		ppm v/v		NC	20
Ethylbenzene	ND		ND		ppm v/v		NC	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
Toluene	ND		ND		ppm v/v		NC	20
Xylenes, Total	ND		ND		ppm v/v		NC	20
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU	DU	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	96		80 - 120

**Lab Sample ID: MB 440-52291/4**

**Matrix: Air**

**Analysis Batch: 52291**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		2.0		mg/m3			09/15/12 23:23	1
Ethylbenzene	ND		2.0		mg/m3			09/15/12 23:23	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0		mg/m3			09/15/12 23:23	1
Toluene	ND		2.0		mg/m3			09/15/12 23:23	1
Xylenes, Total	ND		6.0		mg/m3			09/15/12 23:23	1
tert-Butyl alcohol (TBA)	ND		200		mg/m3			09/15/12 23:23	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.63		ppm v/v			09/15/12 23:23	1
Ethylbenzene	ND		0.46		ppm v/v			09/15/12 23:23	1
Methyl-t-Butyl Ether (MTBE)	ND		0.55		ppm v/v			09/15/12 23:23	1
Toluene	ND		0.53		ppm v/v			09/15/12 23:23	1
Xylenes, Total	ND		1.4		ppm v/v			09/15/12 23:23	1
tert-Butyl alcohol (TBA)	ND		66		ppm v/v			09/15/12 23:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		80 - 120		09/15/12 23:23	1
Dibromofluoromethane (Surr)	116		80 - 120		09/15/12 23:23	1
Toluene-d8 (Surr)	107		80 - 120		09/15/12 23:23	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

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

**Lab Sample ID: LCS 440-52291/5**

**Matrix: Air**

**Analysis Batch: 52291**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.4		mg/m3		106	70 - 120
Ethylbenzene	25.0	27.5		mg/m3		110	75 - 125
m,p-Xylene	50.0	55.4		mg/m3		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	29.6		mg/m3		118	60 - 135
o-Xylene	25.0	28.0		mg/m3		112	75 - 125
Toluene	25.0	28.4		mg/m3		113	70 - 120
tert-Butyl alcohol (TBA)	125	134		mg/m3		107	70 - 135

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	7.8	8.26		ppm v/v		106	70 - 120
Ethylbenzene	5.8	6.34		ppm v/v		110	75 - 125
m,p-Xylene	12	12.7		ppm v/v		111	75 - 125
Methyl-t-Butyl Ether (MTBE)	6.9	8.21		ppm v/v		118	60 - 135
o-Xylene	5.8	6.44		ppm v/v		112	75 - 125
Toluene	6.6	7.53		ppm v/v		113	70 - 120
tert-Butyl alcohol (TBA)	41	44.1		ppm v/v		107	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	113		80 - 120
Toluene-d8 (Surr)	110		80 - 120

**Lab Sample ID: 440-23527-A-4 DU**

**Matrix: Air**

**Analysis Batch: 52291**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	2.9		3.70		mg/m3		24	20
Ethylbenzene	12		14.8	F	mg/m3		22	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		mg/m3		NC	25
Toluene	ND		ND		mg/m3		NC	20
Xylenes, Total	26		33.3	F	mg/m3		25	20
tert-Butyl alcohol (TBA)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Benzene	0.92		1.16		ppm v/v		24	20
Ethylbenzene	2.7		3.41	F	ppm v/v		22	20
Methyl-t-Butyl Ether (MTBE)	ND		ND		ppm v/v		NC	25
Toluene	ND		ND		ppm v/v		NC	20
Xylenes, Total	5.9		7.67	F	ppm v/v		25	20
tert-Butyl alcohol (TBA)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	104		80 - 120
Toluene-d8 (Surr)	112		80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 440-52201/5**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 09:55	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		09/15/12 09:55	1
4-Bromofluorobenzene (Surr)	88		80 - 120		09/15/12 09:55	1
Toluene-d8 (Surr)	94		80 - 120		09/15/12 09:55	1

**Lab Sample ID: LCS 440-52201/7**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	605		mg/m3		121	55 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	148		ppm v/v		121	55 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Toluene-d8 (Surr)	93		80 - 120

**Lab Sample ID: 440-23457-A-3 DU**

**Matrix: Air**

**Analysis Batch: 52201**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		mg/m3		NC	20

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	ND		ND		ppm v/v		NC	20

Surrogate	DU %Recovery	DU Qualifier	Limits
Dibromofluoromethane (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	91		80 - 120
Toluene-d8 (Surr)	96		80 - 120

**Lab Sample ID: MB 440-52292/4**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		100		mg/m3			09/15/12 23:23	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Method: 8260B/CA\_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 440-52292/4**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		24		ppm v/v			09/15/12 23:23	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	116		80 - 120					09/15/12 23:23	1
4-Bromofluorobenzene (Surr)	96		80 - 120					09/15/12 23:23	1
Toluene-d8 (Surr)	107		80 - 120					09/15/12 23:23	1

**Lab Sample ID: LCS 440-52292/6**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	500	551		mg/m3		110	55 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Volatile Fuel Hydrocarbons (C4-C12)	120	135		ppm v/v		110	55 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	104		80 - 120				
4-Bromofluorobenzene (Surr)	101		80 - 120				
Toluene-d8 (Surr)	110		80 - 120				

**Lab Sample ID: 440-23527-A-4 DU**

**Matrix: Air**

**Analysis Batch: 52292**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	1800		2310	F	mg/m3		24	20
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Volatile Fuel Hydrocarbons (C4-C12)	440		564	F	ppm v/v		24	20
Surrogate	%Recovery	DU Qualifier	Limits					
Dibromofluoromethane (Surr)	104		80 - 120					
4-Bromofluorobenzene (Surr)	107		80 - 120					
Toluene-d8 (Surr)	112		80 - 120					

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Method: 25.3 MOD - Non-Methane/Non-Ethane Organic Compound Emissions (Low Concentrations)

**Lab Sample ID: MB 340-2678/10**

**Matrix: Air**

**Analysis Batch: 2678**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (FID)	ND		4.0		ppm v/v			09/17/12 08:11	1

**Lab Sample ID: LCS 340-2678/4**

**Matrix: Air**

**Analysis Batch: 2678**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	99000	99600		ppm v/v		101	80 - 120

**Lab Sample ID: LCS 340-2678/6**

**Matrix: Air**

**Analysis Batch: 2678**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (FID)	248	270		ppm v/v		109	80 - 120

**Lab Sample ID: LCSD 340-2678/5**

**Matrix: Air**

**Analysis Batch: 2678**

**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
Methane (TCD)	99000	99900		ppm v/v		101	80 - 120	0	20

**Lab Sample ID: LCSD 340-2678/7**

**Matrix: Air**

**Analysis Batch: 2678**

**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
Methane (FID)	248	270		ppm v/v		109	80 - 120	0	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## GC/MS VOA

### Analysis Batch: 52200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23457-A-3 DU	Duplicate	Total/NA	Air	8260B	
440-23526-2	EFF	Total/NA	Air	8260B	
LCS 440-52200/6	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52200/5	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23457-A-3 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-2	EFF	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52201/7	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52201/5	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

### Analysis Batch: 52291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23526-3	INF-2	Total/NA	Air	8260B	
440-23526-4	EW-1	Total/NA	Air	8260B	
440-23526-5	INF-2	Total/NA	Air	8260B	
440-23526-6	EW-1	Total/NA	Air	8260B	
440-23526-7	INF-2	Total/NA	Air	8260B	
440-23526-8	EW-1	Total/NA	Air	8260B	
440-23526-9	INF-2	Total/NA	Air	8260B	
440-23526-10	EW-1	Total/NA	Air	8260B	
440-23527-A-4 DU	Duplicate	Total/NA	Air	8260B	
LCS 440-52291/5	Lab Control Sample	Total/NA	Air	8260B	
MB 440-52291/4	Method Blank	Total/NA	Air	8260B	

### Analysis Batch: 52292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23526-3	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-4	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-5	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-6	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-7	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-8	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-9	INF-2	Total/NA	Air	8260B/CA_LUFT MS	
440-23526-10	EW-1	Total/NA	Air	8260B/CA_LUFT MS	
440-23527-A-4 DU	Duplicate	Total/NA	Air	8260B/CA_LUFT MS	
LCS 440-52292/6	Lab Control Sample	Total/NA	Air	8260B/CA_LUFT MS	
MB 440-52292/4	Method Blank	Total/NA	Air	8260B/CA_LUFT MS	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Air - GC VOA

### Analysis Batch: 2678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-23526-1	EW-2M	Total/NA	Air	25.3 MOD	
LCS 340-2678/4	Lab Control Sample	Total/NA	Air	25.3 MOD	
LCS 340-2678/6	Lab Control Sample	Total/NA	Air	25.3 MOD	
LCSD 340-2678/5	Lab Control Sample Dup	Total/NA	Air	25.3 MOD	
LCSD 340-2678/7	Lab Control Sample Dup	Total/NA	Air	25.3 MOD	
MB 340-2678/10	Method Blank	Total/NA	Air	25.3 MOD	

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

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

#### Air - GC VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 4212 First St., Pleasanton, CA

TestAmerica Job ID: 440-23526-1

## Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0671	10-13-12
California	LA Cty Sanitation Districts	9	10256	01-31-13
California	NELAC	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	09-30-12
New Mexico	State Program	6	N/A	01-31-13
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAC	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14

## Laboratory: TestAmerica Costa Mesa

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-13
Florida	NELAC	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAC	6	01948	06-30-13
New York	NELAC	2	11851	04-01-13
Oregon	NELAC	10	CA200013	07-19-13
Utah	NELAC	8	CA000032012-1	06-30-13
Washington	State Program	10	C579	11-29-12

440-23526  
140785



# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**

CALSCIENCE ( )

SPL ( )

XENCO ( )

TEST AMERICA ( )

OTHER ( )

**Please Check Appropriate Box:**

ENV. SERVICES     MOTIVA RETAIL     SHELL RETAIL

MOTIVA SD&CM     CONSULTANT     LUBES

SHELL PIPELINE     OTHER \_\_\_\_\_

**Print Bill To Contact Name:** Peter Schaefer 240523

**INCIDENT # (ENV SERVICES)** 9 8 9 9 5 8 4 0

**PO #** 2 4 0 5 2 3    **SAP #** 1 3 5 7 8 2

CHECK IF NO INCIDENT # APPLIES

DATE: \_\_\_\_\_

PAGE: 1 of 1

**SAMPLING COMPANY:** Conestoga-Rovers & Associates

**LOG CODE:** CRAW

**ADDRESS:** 5900 Hollis St, Suite A, Emeryville, CA 94608

**PROJECT CONTACT (Hardcopy or PDF Report to):** Peter Schaefer

TELEPHONE: 510-420-3319    FAX: 510-420-9170    E-MAIL: pschaefer@crowworld.com, jraddon@crowworld.com

**SITE ADDRESS: Street and City:** 4212 First Street, Pleasanton, CA

**GLOBAL ID NO.:** RO000360

**EDF DELIVERABLE TO (Name, Company, Office Location):** Brenda Carter, CRA, Emeryville    **PHONE NO.:** 510-420-0700

**E-MAIL:** emeryville@crowworld.com    **CONSULTANT PROJECT NO.:** 240523-95-12.06

**SAMPLER NAME(S) (Print):** RADON / McMAINS

**LAB USE ONLY**

**TURNAROUND TIME (CALENDAR DAYS):**

STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS

RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT     UST AGENCY:

**REQUESTED ANALYSIS**

**SPECIAL INSTRUCTIONS OR NOTES :**

Copy of final report to Shell.Lab.Billing@crowworld.com; jraddon@crowworld.com; mlundberg@crowworld.com; pschaefer@crowworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

Page 24 of 26	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TPH -GRO, Purgable (8260B)	BTEX + MTBE + TBA (8260B)	CH4 by SCAQMD 25.3 (M)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HW03	H2SO4	NONE	OTHER						
		TEDLAR BAGS													
	EW-2M	9/17/12	19:00	VAPOR							X				
	EFF	9/17/12	19:00							X	X				
	INF-2	9/17/12	19:00							X	X				
	EW-1	9/14/12	19:00							X	X				
	INF-2		10:15												
	EW-1		10:15												
	INF-2		11:30												
	EW-1		11:30												
	INF-2		12:45												
	EW-1		12:45												

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> TASE	Date: 9-17-12	Time: 1710
Relinquished by: (Signature) <i>[Signature]</i> 9/14/12 TASE 17:20	Received by: (Signature) <i>[Signature]</i>	Date:	Time:
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 9/15/12	Time: 1215

9/28/2012

24.3°

05/2006 Revision

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23526-1

**Login Number: 23526**

**List Number: 1**

**Creator: Robb, Kathleen**

**List Source: TestAmerica Irvine**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	Radon/McMains
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-23526-1

**Login Number: 23526**

**List Number: 1**

**Creator: Morales, Sergio**

**List Source: TestAmerica Costa Mesa**

**List Creation: 09/17/12 12:42 PM**

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

APPENDIX E

FIELD DATA SHEETS



**CONESTOGA-ROVERS  
& ASSOCIATES**

## DAILY FIELD REPORT

Submit copy to Company Safety Officer

Project Name: <u>Shell Service S</u>	CRA Mgr: <u>Peter Schaefer</u>	Field Rep: <u>Jessica/OT/Mike</u>
Project Number: <u>240523</u>	Date: <u>9/10/2002</u>	Site Address: <u>4212 First St, Pleasanton</u>
General Tasks: <u>Pilot Testing Setup</u>		
Emergency Drill Conducted: <u>Evacuation Protocol</u>		
HASP Meeting Conducted (Y/N): <u>Y</u>	Equipment Checked (Y/N): <u>Y</u>	PID Calibrated (Y/N): <u>Y</u>

Time	Activity/Comments	SWA
7:00	Mike McManis onsite, JR/H arrive onsite	
8:00	Jerry from Makro Bob onsite	
	walk site; scope and best setup discuss HASP; sign in	
8:30	United onsite; setup temporary fencing port apathy onsite	
9:30	Ran for Rent onsite Jerry run through AS system onsite Dan Leicore arrive onsite - run through HASP; walk through	
10:00	HASP review	
11:00	Allard dropped off; setup propane tank	
11:30	TPRCO arrived (wrong Krouts) → called office and driver made trip back to office in Hayward/Newark	SWA
12:00	measuring DTH in wells - install caps (obs./SVE/AS)	
12:30	TPRCO back w/ water	
13:00	test all equipment (oxidizer / AS trailer) - have all equipment finish setting everything up confirm breakthrough pressure AS.	
14:30	JRH off site organize equipment and site for security guard who will be here by 4pm	
16:00	security guard arrive	

SWA Key:	1: SPSA/Task Change	2: Pedestrian in Proximity	3: Unauthorized Personnel	4: Review Work Process
5: Inspection	6: Safety Orientation	7: Uncontrollable Factor	8: Minor First Aid	9: Major (explain in notes)

Hours \_\_\_\_\_ Miles \_\_\_\_\_ Other \_\_\_\_\_ Shared \_\_\_\_\_



# DAILY FIELD REPORT

Submit copy to Company Safety Officer

Project Name: <i>oil service station</i>	CRA Mgr: <i>Peter Schaefer</i>	Field Rep: <i>JR/MM</i>
Project Number: <i>240523</i>	Date: <i>9-11-2012</i>	Site Address: <i>4212 First St Pleasanton, CA</i>
General Tasks: <i>AS/SVE Pilot Testing</i>		
Emergency Drill Conducted: <i>Y</i>		
HASP Meeting Conducted (Y/N): <i>Y</i>	Equipment Checked (Y/N): <i>Y</i>	PID Calibrated (Y/N): <i>Y</i>

Time	Activity/Comments	SWA
6:30	Mike onsite	
6:45	Jessica / Lee onsite	
7:00	tailgate safety meeting	
<del>7:15</del>	7:15 collect DTW, collect well vapor static samples	
	purge 3 mins	
8:00	warm up/start SVE	
8:45	first round of readings while extracting SVE-5	
	high concentrations on PID	
	stabilize system; collect int-1 sample	
9:15	collect int-1 sample; still high concentrations	
9:30	Paul arrive onsite, Denis Brown onsite	
	concentrations still increasing; continue taking readings with SVE only	
11:30	concentrations stabilize around 5900-6000	
	Denis off site	
12:00	collect readings to show stabilizing vapor concentrations	
	call MATT and start Air Sparging	
	initial psi @ 5	
	optimal flow (5-10 cfm)	
	max = will not exceed 40 psi	
	5 psi = no flow (< 3 cfm on	
<del>12:15</del>	step testing on air sparge; determining where we see breakthrough	
17:00	helium test - communicate w/ tech, and project lead about where/how to measure helium flow in cfm not cfh	
2:00	leave site	

SWA Key:	1: SPSA/Task Change	2: Pedestrian in Proximity	3: Unauthorized Personnel	4: Review Work Process
	5: Inspection	6: Safety Orientation	7: Uncontrollable Factor	8: Minor First Aid
				9: Major (explain in notes)

Hours \_\_\_\_\_ Miles \_\_\_\_\_ Other \_\_\_\_\_ Shared \_\_\_\_\_



**CONESTOGA-ROVERS  
& ASSOCIATES**

## DAILY FIELD REPORT

Submit copy to Company Safety Officer

Project Name: 240523	CRA Mgr: P. SCHAEFER	Field Rep: ML/JR/MM
Project Number: "	Date: 9/12/12	Site Address:
General Tasks: AS/SVE pilot test	4212 1st St, Pleasanton	
Emergency Drill Conducted: discussed flame arrester failure		
HASP Meeting Conducted (Y/N):	Equipment Checked (Y/N):	PID Calibrated (Y/N):

Time	Activity/Comments	SWA
6:30	ML+JR on site. Review setup. Begin discussion of DPE setup.	
7:45	MM on site. HASP meeting.	
7:10	Begin setup for DPE.	
7:20	ML reviews field forms. Identify discrepancies.	
7:45	Discuss w/ Lee Bannan. Lee & Dan decide to redo test.	
8:00	Begin setup for tests. Reinstall wellheads & transducers.	
	Sampling schedule:	
	→ Pre/Post well purge samples: (begin day / end day)	
	① EW-1	
	② EW-2	
	③ P-2	
	④ SVE-3	
	⑤ SVE-4	
	⑥ SVE-5	
	→ SVE samples → ① SVE-5 + Inf-2 = 1/2 hr after SVE	
	② SVE-5 + Inf-2 = 1/2 hr after SVE	

S Key:	1: SPSA/Task Change	2: Pedestrian in Proximity	3: Unauthorized Personnel	4: Review Work Process
5: Inspection	6: Safety Orientation	7: Uncontrollable Factor	8: Minor First Aid	9: Major (explain in notes)

Hours \_\_\_\_\_ Miles \_\_\_\_\_ Other \_\_\_\_\_ Shared \_\_\_\_\_





## DAILY FIELD REPORT

Submit copy to Company Safety Officer

Project Name: 240523	CRA Mgr: P. Schaffer	Field Rep: MLI/MW/JE
Project Number:	Date: 9/12/12	Site Address: 4212 1st St, Pleasanton, CA
General Tasks:		
Emergency Drill Conducted:		
HASP Meeting Conducted (Y/N):	Equipment Checked (Y/N):	PID Calibrated (Y/N):

Time	Activity/Comments	SWA
9:00	see page 7 of SAW for AS/SVE sampling schedule <del>AS/SVE 25016</del> FPM = ca ft/min $V \times A = \text{cu ft}$ $A = \pi \left( \frac{A}{2} \right)^2 = \pi \left( \frac{1}{2} \right)^2$ $FPM \times \pi / 36 = \text{cu ft}$ $2000 = 800 \text{ cu ft}$ $1400 = 100 \text{ cu ft}$ $1100 \rightarrow 1000$ $H \text{ pass} = 1 \text{ cu ft}$ $100 \text{ psi} = 7.19 \text{ ft}$	
9:11	continue SVE test. Concentrations stabilize in Influent ~ 600 ppmV (as measured w/ Horiba)	
11:35	start AS test (stop) at 25 psi. = collect SVE-S + P-2 dtw	
12:15	collect SVE-S/Inf-2 samples	
14:00	sample move into constant rate test (SVE-S/Inf-2)	
14:30	note pressurized MW-4 well; install pressure gauge and pressure release valve	SWA
19:00	finish AS/SVE test / leave site / meet security	

S. Key:	1: SPSA/Task Change	2: Pedestrian in Proximity	3: Unauthorized Personnel	4: Review Work Process
5: Inspection	6: Safety Orientation	7: Uncontrollable Factor	8: Minor First Aid	9: Major (explain in notes)

Hours \_\_\_\_\_ Miles \_\_\_\_\_ Other \_\_\_\_\_ Shared \_\_\_\_\_





## DAILY FIELD REPORT

Submit copy to Company Safety Officer

Project Name:	CRA Mgr:	Field Rep:
Project Number:	Date: 9-14-2012	Site Address:
General Tasks:		
Emergency Drill Conducted:		
HASP Meeting Conducted (Y/N):	Equipment Checked (Y/N):	PID Calibrated (Y/N):

Time	Activity/Comments	SWA
7:00	MM arrive on site collect gw sample EW-2	
7:15	JR onsite, HASP/HAZARDOUS gauge EW-1 (other Pt. 3) collect EW-1 sample warmup generator connect DPE well head and install pump in EW-1 connect pump (begin dewatering)	
8:30	begin STEP testing 100 in WC	
	150	
	175	
	50 ← note at 50 min temperature is rising	
13:00	begin constant rate at 150 in WC	
18:00	Final readings/sample/shutdown system	
17:00	collect gw sample in EW-1 MM head to lab (TEST AMERICA) JR download transducer data cleanup: close up all wells pack up Equipco's equipment cleanup site and notify vendors with reminders for Monday pickup	
18:15	MEET security for weekend and leave site.	

S: Key:	1: SPSA/Task Change	2: Pedestrian in Proximity	3: Unauthorized Personnel	4: Review Work Process
5: Inspection	6: Safety Orientation	7: Uncontrollable Factor	8: Minor First Aid	9: Major (explain in notes)

Hours \_\_\_\_\_ Miles \_\_\_\_\_ Other \_\_\_\_\_ Shared \_\_\_\_\_





SOIL VAPOR EXTRACTION / AIR SPARGE PILOT TEST  
SOIL VAPOR EXTRACTION - SYSTEM DATA SHEET

Client: Shell Oil Products US

Site ID & Location: 4212 First Street, Pleasanton

Page: \_\_\_\_\_ of \_\_\_\_\_ Date: \_\_\_\_\_

Technician(s): \_\_\_\_\_

Vapor Extraction Well(s): SVE-5

Sparge Well(s): AS-1

Elapsed Time (min)	Time	Hour-meter (hrs)	Blower Vacuum (in.Hg)	Pre-knockout (INF-1)				Dilution Air			Blower (INF-2)				Effluent Vapor Conc. (ppmv)	EQ Totalizer (gals)	Notes		
				Flow (scfm)	Temp. (°F)	Casing Vacuum (in. WC)	Vapor Conc. (ppmv)	Helium Concentration (ppmv)	Flow (scfm)	Temp. (°F)	Vacuum (in. WC)	Vapor Flow (scfm) Velocity (ft/min)	Temp. (°F)	Vapor Conc. (ppmv)				Pressure (in. WC)	Helium Concentration (ppmv)
	Start oxidizer	6819.1					4000	NA											
9/1/02	Start SVE	6819.5	6.0	120	70.5	57.5	300	NA	-0% open				2,000	150	1350	NA	1602	NA	collect INF-1 sample
		6820.3	15.0	69.5	76.0	25.2	<15000	NA	-7% open				2,400	159	1863	NA	1661	NA	Collect samples
		6820.8	12.0	195	71.2	114.1	750*	NA	-0% open				2,500	160	4675	NA	1527	NA	
		6821.4	15.0	195	72.9	101.7	vac too strong to pull head cracked	NA	0%				2,500	160	4900	NA	1535	NA	AS test @ 5psi, collect samples
		6822.0	15.0	196	71.3	101.1	NM*	NA	0%				2,500	161	6200	NA	1468	NA	
		6822.5	15.0	218	73.3	101.2	NM*	NA	0%				2,450	161	5955	NA	1434	2.3	NA
		6823.1	15.0	205	73.8	100.0	NM*	NA	0%				2,500	162	5500	NA	1480	1.1	
sample		6823.7	15.0	200	73.5	102.0	NM*	NA	0%				2,500	161	5200	NA	1450	1.0	
		6824.4	15.0	217	68.7	97.7	3500	NA	0%				2,400	161	4900	NA	1451	2.5	
		6825.2	15.0	218	67.2	98.3	3850	NA	0%				2,400	163	5755	NA	1490	0.5	Collect samples
		6825.9	15.0	218	66.8	98.5	3571	NA	0%				2,500	163	5500	NA	1532		
		6826.3	15.0	218	66.7	98.2	3840	NA	0%				2,450	169	5500	NA	1580		
		6826.9	15.0	218	66.2	94.5	4503	NA	dilution cracked				2,600	169	5500	NA	1595	1.3	
sample		6827.6	14.0	218	67.2	81.3	5000	NA	dilution cracked				2,800	169	5500	NA	1572	1.0	Collect samples
		6828.0	15.0	214	67.0	87.3	5300	0	dilution cracked				2,500	169	5500	NA	125	15.66	2.6
		6829.0	12.0			87.4			0%				2,400	169			1554		
		6829.6	12.0	218	66.3	91.2	5200	5875	0%				2,600	163	5500	4900	1667		back phone call regarding out helium flow
																			Continue test @ optimal pressure/flow

begin sparging  
and break thru  
bumped up  
to 40 psi  
@ 6 CFM  
begin helium  
flow at 16:30

Continued on next sheet

NOTES:

If destruction efficiency is less than 90%, shut down system per regulatory requirement.

NA = not applicable, SVE only  
NM\* = vacuum too high to rise sample pump



Client: Shell O'US																		Page: _____	
Site ID & Location: 240523 - 4212 First Street, Pleasanton																		Technician(s): _____	
Extraction Well(s): SVE-5																		Sparge Well: AS-1	
Time	AS-1							MW-4							EW-2				
	Pressure/ Vacuum (" H <sub>2</sub> O)	DTW (ftg)	Spurge Pressure (psi)	Spurge flow rate (cfm)	Helium Pressure (psi)	Helium flow rate (cfm)	Helium Conc (% v/v)	Pressure/ Vacuum (" H <sub>2</sub> O)	pH	DO Conc. (mg/L)	ORP	Conductivity (µS/cm)	DTW (ftg)	Pressure/ Vacuum (" H <sub>2</sub> O)	pH	DO Conc. (mg/L)	ORP	Conductivity (µS/cm)	DTW (ftg)
Static DTW												3							35.03
8:45 Start SVE		34.66					0.0 vs	6.68	2.91	-76.9	0.774	NM	0.0 vs	6.51	4.29	84.6	1058	NM	
9:15							0.8	6.68	2.91	-76.3	0.765	NM	6.0	6.52	4.44	83.4	1060	NM	
9:45							0.0	6.68	2.90	-76.2	0.774	NM	20.1	6.51	4.29	85	1063	NM	
10:15							0.0	6.68	2.89	-75.5	0.766	NM	18.8	6.51	4.33	85.4	1067	NM	
11:00							0.0	6.68	2.88	-74.5	0.765	34.97	19.6	6.53	4.41	84.1	1069	35.08	
11:30							0.0	6.68	2.86	-73.8	0.766	NM	20.6	6.51	4.33	85.7	1070	NM	
12:00	NM	NM	13.0	<del>40</del>	NM	NM	NM	0.0	6.68	2.83	-72.8	0.766	NM	19.7	6.54	5.40	84.8	1073	NM
12:45	NM	NM	13.0	<del>40</del>				0.0	6.68	2.81	-71.4	0.765	NM	18.8	6.52	4.34	85.9	1075	NM
13:15	NM	NM	15.0	<del>40</del>	NM	NM	NM	0.0	6.68	<del>2.78</del>	-70.1	0.766	33.23	17.0	6.52	4.28	85.8	1079	NM
14:15	NM	NM	25.5	3	NM	NM	NM	0.0	6.67	2.76	-64.5	0.767	NM	16.4	6.52	4.28	86.0	1078	NM
14:45	NM	NM	35	5	NM	NM	NM	0.0	6.35	9.58	96.4	0.716	26.89	17.2	6.52	4.25	86.0	1076	34.7
15:15	NM	NM	35	5	NM	NM	NM	0.0	6.43	12.40	107.5	0.718	25.10	15.4	6.47	4.30	86.6	1049	34.55
15:45	NM	NM	40	6.5	NM	NM	NM	0.0	6.52	11.11	105.9	0.710	22.4	14.5	6.52	7.07	88.4	1081	34.25
16:15	NM	NM	46	6.5	NM	NM	NM	0.0	6.52	9.59	105.7	0.705	22.42	12.9	6.59	7.49	86.1	1055	34.07
16:45	NM	NM	40	7.5	10 psi	-	2.4%	0.0	6.68	8.22	68.9	0.800	22.50	13.8/25	6.66	7.78	85.9	1123	33.62
18:00	NM	NM	40	7.5	60	37.5	4.9%	0.0	6.82	6.32	92.2	0.685	22.5	12.9/100	6.84	8.19	84.0	1180	33.10

9/11/12 w/casing  
9/11/12

12:15-12:30  
start AS at 5 psi

13:10-13:15 = stopped  
up to 13 psi  
at wellhead

14:00 burst part of  
20 psi (zero flow)

(14:00) 26 psi (3.3 scfm)  
begin sparge

16:30 begin  
helium tracer  
constant rate

2.1 vapor  
shc

MW-4 under pressure







CONESTOGA-ROVERS & ASSOCIATES

SOIL VAPOR EXTRACTION /AIR SPARGE PILOT TEST  
SOIL VAPOR EXTRACTION - WELL DATA SHEET

Client: Shell Oil Products US

Site ID & Location: 4212 First Street, Pleasanton

Extraction Well(s): SVE-5

Page: \_\_\_\_\_

Technician(s): \_\_\_\_\_

Sparge Well(s): AS-1

Elapsed Time (min)	Time	Observation Wells (record distance from extraction well below observation well name)																		Notes
		SVE-5			EW-1			P-2			SVE-3			SVE-4			SVE-5			
		Casing Vacuum (WC)	DTW (ft)	Helium Conc (% v/v)	Pressure/Vacuum (H <sub>2</sub> O) (")	DTW (ft)	Helium Conc (% v/v)	Pressure/Vacuum (H <sub>2</sub> O) (")	DTW (ft)	Helium Conc (% v/v)	Pressure/Vacuum (H <sub>2</sub> O) (")	DTW (ft)	Helium Conc (% v/v)	Pressure/Vacuum (H <sub>2</sub> O) (")	DTW (ft)	Helium Conc (% v/v)	Pressure/Vacuum (H <sub>2</sub> O) (")	DTW (ft)	Helium Conc (% v/v)	
9/12/12	8:30	97.1	31.91		dry			34.02			dry			dry			dry			9:00 samples collected: EW-1, EW-2, P-2, SVE-3, SVE-4, SVE-5
	9:20	46.2	NM*	NM	0.6	NA	NM	1.6	troll	NM	2.7	NA	NM	12.0	NA	NM	0.0	NA	NM	Continue test @ optimal pressure/flow
	9:50	72.7	NM*	NM	0.0	NA	NM	1.2	troll	NM	2.5	NA	NM	13.0	NA	NM	0.0	NA	NM	
	10:20	100.1	NM*	NM	0.6	NA	NM	1.8	troll	NM	3.3	NA	NM	13.4	NA	NM	0.0	NA	NM	Download Troll Data
	10:50	102.1	NM*	NM	0.0	NA	NM	1.7	troll	NM	3.2	NA	NM	16.5	NA	NM	0.0	NA	NM	
	11:20	102.7	NM*	NM	0.0	NA	NM	2.1	troll	NM	4.1	NA	NM	17.2	NA	NM	0.0	NA	NM	
	11:45	101.9	31.70	NM	1.1	NA	NM	2.5	31.22	NM	3.8	NA	NM	17.3	NA	NM	0.0	NA	NM	
	12:15	101.8	NM*	NM	0.0	NA	NM	1.7	troll	NM	3.0	NA	NM	16.5	NA	NM	0.0	NA	NM	
	12:45	100.5	NM*	NM	0.0	NA	NM	1.8	troll	NM	3.2	NA	NM	16.3	NA	NM	0.0	NA	NM	
	13:36	98.5	31.70	NM	0.7	NA	NM	1.7	33.44	NM	3.0	NA	NM	15.1	NA	NM	0.0	NA	NM	
	5 14:00	98.1	NM	NM	1.0	NA	NM	1.8	troll	NM	3.1	NA	NM	15.7	NA	NM	0.0	NA	NM	Collect samples
	15:00	98.4	31.68	NM	0.8	NA	NM	1.8	32.44	NM	2.9	NA	NM	15.9	NA	NM	0.0	NA	NM	Download Troll Data
	5 16:00	98.2	31.70	NM	1.0	NA	NM	2.2	32.17	NM	3.3	NA	NM	16.2	NA	NM	0.0	NA	NM	
	16:30																			
	17:00	96.8	31.65	NM	1.2	NA	NM	1.9	31.92	NM	3.1	NA	NM	15.9	NA	NM	0.0	NA	NM	
	17:45																			
	18:00	97.9	31.45	NM	0.5	NA	NM	1.2	31.68	NM	2.9	NA	NM	16.4	NA	NM	0.0	NA	NM	
																				End Helium Tracer Test
																				Allow Helium to dissipate
																				Collect samples, Download Troll Data, shut
																				Shutdown system

NM\* = under vacuum; unable to gauge  
NA = not applicable; well dry  
NM = not measured

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Client: Shell OPIUS		Page: _____																				
Site ID & Location: 240523 - 4212 First Street, Pleasanton		Technician(s): _____																				
Extraction Well(s): SVE-5		Sparge Well: AS-1																				
Time	AS-1							MW-4							EW-2						Vapor Conc.	Helium Conc.
	Pressure / Vacuum (" H <sub>2</sub> O)	DTW (ft)	Sparge Pressure (psi)	Sparge flow rate (dm)	Helium Pressure (psi)	Helium flow rate (dm)	Helium Conc (% v/v)	Pressure / Vacuum (" H <sub>2</sub> O)	pH	DO Conc. (mg/L)	ORP	Conductivity	DTW (ft)	Pressure / Vacuum (" H <sub>2</sub> O)	pH	DO Conc. (mg/L)	ORP	Conductivity	DTW (ft)			
Static DTW													34.12							34.10		
912-12																						
920 Start SVE			NM	NM	NM	NM	NM	0.0 YSI	7.10	11.02	79.5	0.695	NM	13.5 YSI	6.82	7.05	87.8	1.206	NM			
950			NM	NM	NM	NM	NM	0.0	7.09	11.72	79.8	0.694	NM	14.0	6.81	7.02	86.8	1.207	NM			
1020			NM	NM	NM	NM	NM	0.0	7.10	10.96	80.4	0.695	NM	18.2	6.80	7.02	86.7	1.208	NM			
1050			NM	NM	NM	NM	NM	0.0	7.09	10.94	80.7	0.694	34.24	17.2	6.79	7.10	86.5	1.208	NM			
1120			NM	NM	NM	NM	NM	0.0	7.09	10.94	81.3	0.694	NM	17.4	6.78	7.22	87.1	1.207	NM			
step 1 @ 25psi	1135 (AS started)		25	5.0	NM	NM	NM							34.25						34.40		
	1145		25	4.0	NM	NM	NM	0.0	7.05	10.90	83.1	0.692	NM	18.0	6.78	7.31	88.1	1.206	NM			
	1215		25	4.0	NM	NM	NM	0.0	7.01	13.49	85.7	0.689	NM	17.3	6.70	8.16	90.0	1.203	NM	2.1		
	1245		25	4.0	NM	NM	NM	0.0	7.08	12.50	85.6	0.690	NM	16.9	6.67	9.26	91.0	1.206	NM			
step 2 @ 40psi blend into constant rate	1330		40	7.0	NM	NM	NM	0.0	7.10	21.23	84.5	0.685	28.42	15.2	6.69	11.11	90.9	1.212	33.69			
	1400 sample		40	7.5	NM	NM	NM	5.0*	7.21	14.78	81.8	0.680	27.80	15.2	6.75	11.21	90.8	1.213	NM	2.2		
	1500		40	8.0	NM	NM	NM	5.8*	7.29	15.05	79.2	0.673	30.6	15.1	6.85	11.31	89.8	1.215	33.37	1.7		
	1515 ← Helium injected @ 1510		40	8.0	8.0	4.0	16.5%	NM*												33.17		
	1600		40	8.5	—* Helium off @ 1530			NM*	7.20	9.45	72.9	0.663	23.70	16.8							2.0	600
	1700		40	7.5	78	3.0	9.2%	NM*	7.37	13.91	75.5	0.653	22.6	15.3						32.93	1.8	← 26 @ 16:30
	1720		40	8.0	43	4.0		NM*						15.9								
	1800		40	8.0	—	0	2375	2.0*	7.50	14.27	72.3	0.649	21.3	15.2						32.72	0.4	50

\*noticed pressure buildup in MW-4; installed a pressure gauge to measure/record this instead

# DPE TEST INITIAL DATA FORM

Site Address: 4212 First Street, Pleasanton Date: 9/10/12  
 Project No. 240523 Technician: JESSICA / MIKE  
 Project Mgr: Peter Schaefer

Extraction Well	Distance to Observation Well from Extraction Well (ft)					
	MW-4	SVE-3	SVE-4	SVE-5	P-1	P-2
EW-1	22'	13'5"	36'	35'	11'6"	9'6"
EW-2	9'8"	24'	15'3"	8'	38'	19'1"

EW-1  
30'

Static Depth to Water (ft)									
EW-1	EW-2	MW-4	SVE-3	SVE-4	P-1	P-2	SVE-5		
18.55	34.73	34.32	NA	NA	NA	35.02	36.04		

TD 21.60 41.8 fbg=TD

Notes: NA = not applicable; well dry (soil vapor extraction well or shallow piezometer)

9-12-12  
 static DTW EW-2 34.10 MW-4 34.12 SVE-5 34.91

9-13-12  
 trans new setup EW-2 35.98 P-2 34.87 MW-4 37.30 SVE-5 35.55

9-14-12  
 static DTW EW-2 36.42 P-2 35.35 MW-4 37.15 SVE-5 36.52  
 EW-1 19.30 dhw  
 21.50 TD  
 ~14.12 dhw w/pump (21.32 w/pump from top of well head)

# EW-2 DPE STEP TEST SYSTEM DATA FORM

Site Address: 4212 First Street, Pleasanton Date: 9-13-12  
 Project No. 240523 Technician: Jessica Miller  
 Project Mgr: Peter Schaefer

Sample	Date/Time (min)	Hour Meter (hrs)	LR Pump Vac (in. Hg)	Combustion Temp (deg F)	Dilution Flow (cfm)	Well Casing Vac (in WC)	System Vac (in WC)	Well (Inf-1) Temp (Deg F)	Well (Inf-1) Flow (cfm)	Inf-2 Temp (Deg F)	Inf-2 Flow (cfm)	Inf-2 Pressure (in WC)	Well (Inf-1) Vapor Conc (ppmv)	Inf-2 Vapor Conc (ppmv)	EFF Vapor Conc (ppmv)	Destruction Efficiency = (Inf-2 - EFF) / (Inf-2)	Totalizer (gallons)	
	6840.5 starting hour meter reading system off															54.0	initial: 34881.3	
S	9:30	10:45	6840.8	23.0	1568	16% open	59.5	8.0	76.6	42.7	141	900	0.15	474	545			
S		11:00	6841.1	25.0	1594	0%	103.3	8.0	77.7	61.0	141	900	0.15	578	1906		34888.5	
S		11:30	6841.6	20.0	1610	0%	99.1	8.0	81.4	65.0	150	1,800	0.20	830	1150		34889.0	
S		12:00	6842.0	20.0	1614	0%	100.4	8.0	84.6	58.5	152	1,600	0.15	829	1045		34891.2	
S	12:05 move to next step																	
S		12:15	6842.3	20.5	1664	0%	159.0	12.5	85.3	84.5	155	1,600	0.15	895	1035	4.0	34892.0	
S		12:45	6843.0	23.5	1569	0%	148.3	12.5	91.4	93.5	159	1,200	0.125	825	984		34894.5	
S		13:15	6843.3	23.0	1548	0%	164.1	13.0	88.8	83.5	161	1,200	0.125	992	915	3.0	34897.5	
S	2:00 next step test #3																	
S		13:30	6843.6	22.0	1516	0%	249.5	20.0	83.6	104	164	1,250	0.17	900	928	5.0	34898.7	
S		14:00	6844.1	22.0	1604	0%	247.8	19.5	85.2	112	163	1,250	0.17	975	1048		34903.4	
S		14:30	6844.5	22.0	1584	0%	246.9	19.0	84.7	110	168	1,300	0.17	1088	967	6.0	34904.5	
S	50 in WC STEP TEST #4																	
S		15:00	6845.0	26.0	1626	0%	50.7	4.5	92.4	50.5	163	950	0.10	928	898	4.0	34909.6	
S	STEP TEST #5																	
S		15:15	6845.2	21.5	1580	0%	222.4	17.5	83.7	104	168	1150	0.11	890	846	5.0	34910.9	

NOTES: 10:15 begin debugging; warming up oxidizer  
Check LPG tank level. Call for refill.  
Check water tank level. Call for pump-out. 10:45 11 o'clock = began first step test at 100" WC.  
 S=sample  
 \* Transducer  
 Destruction Efficiency = (Inf-2 - Eff) / (Inf-2)

01:45 warm-up oxidizer; start up gw pump



**EW-2 DPE STEP TEST OBSERVATION DATA FORM**

Site Address: 4212 First Street, Pleasanton Date: \_\_\_\_\_  
 Project No. 240523 Technician: \_\_\_\_\_  
 Project Mgr: Peter Schaefer

Date/Time (min)	Hour Meter (hrs)	Casing Vac (in WC) (EW-2)	VAC	Induced Vacuum and DTW (in WC) and (ft)							
				MW-4	SVE-3	SVE-4	SVE-5	P-1	P-2		
STEP TEST #8	11:00	6841.1	103.3	VAC	0.0	0.9	2.4	3.8	0.0	1.2	EM
	11:30	6841.6	99.1	VAC	37.0/0.0	1.2	2.5	36/3.6	0.0	36.0/0.6	0.0
	12:00	6842.0	100.4	VAC	0.0	1.3	3.1	4.3	0.0	0.9	0.0
				VAC/DTW							0.0
STEP TEST #8	12:15	6842.3	159.0	VAC	0.0	1.4	3.4	5.7	0.0	0.8	0.0
	12:45	6843.0	148.3	VAC	0.0	1.4	3.1	5.5	0.0	1.0	0.0
	13:15	6843.3	164.1	VAC	0.0	1.3	3.8	5.8	0.0	0.8	0.0
				VAC/DTW			4.2				0.0
STEP TEST #9	13:30	6843.6	249.5	VAC	0.0	1.7	4.2	7.7	0.0	1.7	0.0
EW-2 DTW 41.5 ft	14:00	6844.1	247.8	VAC	0.0	1.8	4.3	8.0	0.0	1.1	0.0
	14:30	6844.5	246.9	VAC	37.15/0.0	2.1	4.6	36.3/8.2		35.10/1.3	0.0
				VAC/DTW							0.0
STEP TEST #5	15:00	6845.0	50.7	VAC	0.0	0.0	1.5	2.7	0.0	0.0	0.0
	15:15	6845.2	222.4	VAC	0.0	1.7	4.5	7.6	0.0	0.9	0.0
				VAC/DTW			4				0.0
CONSTANT S	15:30	6845.8	152.5	VAC	0.0	1.8	4.3	7.0	0.0	1.3	0.0
	16:00	6846.0	153.5	VAC/DTW	37.2/0.0	1.8	4.1	36.21/7.0	0.0	35.1/1.1	0.0
	16:30	6846.6	152.5	VAC	0.0	1.1	3.3	6.1	0.0	0.8	0.0
	17:00	6847.1	151.4	VAC/DTW	37.3/0.0	1.3	3.4	36.3/6.1	0.0	35.15/0.8	0.0
	17:30	6847.5	155.5	VAC	0.0	1.4	4.5	6.4	0.0	0.9	0.0
	18:00	6848.1	153.5	VAC/DTW	0.0	1.3	3.0	6.3	0.0	0.8	0.0
	18:30	6848.6	145.5	VAC	37.35/0.0	1.3	3.5	36.14/6.4	0.0	35.2/0.9	0.0
				VAC/DTW							0.0
				Samples collected Inf-2, EW-2, EW-2M, EPF							
				Shutdown at 19:00							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							
				VAC/DTW							
				VAC							

downloaded data from mills

# EW-1 DPE STEP TEST SYSTEM DATA FORM

Site Address: 4212 First Street, Pleasanton Date: 9-14-2012  
 Project No. 240523 Technician: JESS / MCMAINS  
 Project Mgr: Peter Schaefer

Sample	Date/Time (min)	Hour Meter (hrs)	LR Pump Vac (in Hg)	Combustion Temp (deg F)	Dilution Flow (cfm)	Well Casing Vac (in WC)	System Vac (in WC) (in Hg)	Well (Inf-1) Temp (Deg F)	Well (Inf-1) Flow (cfm)	Inf-2 Temp (Deg F)	Inf-2 Flow (cfm) velocity (ft/min)	Inf-2 Pressure (in WC)	Well (Inf-1) Vapor Conc (ppmv)	Inf-2 Vapor Conc (ppmv)	EFF Vapor Conc (ppmv)	Destruction Efficiency = (Inf-2 - EFF) / (Inf-2)	Totalizer (gallons)
STEP TEST #1 @ 100 in WC Initial: 34927.0																	
S	9:00	6849.5	22.0	1567	0%	101.3	8.5	71.6	87.5	143	1,200	0.15	122	122			34927.5
	9:30	6850.1	20.0	1564	0%	96.7	9.0	74.3	92.5	150	1,900	0.23	118	119	1.0		34928.9
	10:00	6850.5	21.5	1568	0%	98.5	9.0	80.2	110	191	1,600	0.20	128	142			34929.1
STEP TEST #2 @ 150 in WC																	
S	10:15	6850.8	20.5	1461	0%	149.5	13.5	79.2	139	152	1,800	0.24	160	170	1.0		34929.5
	10:45	6851.3	20.5	1514	0%	147.0	13.5	78.8	142	152	1,850	0.242	167	204	1.0		34929.9
	11:15	6851.8	20.0	1519	0%	147.7	13.0	81.3	162	156	1,900	0.245	185	214			34930.0
STEP TEST #3 @ 170 in WC																	
S	11:30	6852.1	17.5	1501	0%	169.5	15.5	85.1	180	153	2,000	0.25	167	219	7.0		34930.4
	12:00	6852.5	16.5	1484	0%	166.3	15.5	83.1	179	159	1,990	0.248	185	213			34930.7
S	12:30	6853.0	17.0	1484	0%	162.0	15.0	88.2	207	158.5	2,100	0.252	180	226			34931.0
STEP TEST #4 @ 50 in WC																	
S	12:45	6853.3	24.5	1640	10% correct	43.0	4.5	89.7	92.5	149	1,000	0.125	182	225	3.0		34931.0
	13:15	6853.4	24.0	1582	10% correct	50.5	5.5	95.3	110	158	990	0.115	205	144			34931.0

NOTES:

- Check LPG tank level. Call for refill.
- Check Baker tank level. Call for pump-out.
- S=sample
- \* Transducer
- Destruction Efficiency = (Inf-2 - Eff)/(Inf-2)

8:30 connect pump and begin dewatering if any  
 8:40 connect SVE





**EW-1 DPE STEP TEST OBSERVATION DATA FORM**

Site Address: 4212 First Street, Pleasanton Date: \_\_\_\_\_  
 Project No. 240523 Technician: \_\_\_\_\_  
 Project Mgr: Peter Schaefer

Date/Time (min)	Hour Meter (hrs)	Casing Vac (in WC) (EW-1)	VAC	Induced Vacuum and DTW (in WC) and (ft)						EW2		
				MW-4	SVE-3	SVE-4	SVE-5	P-1	P-2			
STEP TEST #1	9:00	6849.5	101.3	VAC	0.0	1.8	0.7	0.7	3.2	2.0	0.9	
	9:30	6850.1	96.7	VAC	37.13/0.0	0.8	0.0	36.58/0.0	2.0	35.42/0.9	0.0	
	10:00	6850.5	78.5	VAC	0.0	1.5	0.0	0.0	2.8	1.8	0.0	
			VAC/DTW									
STEP TEST #2	10:15	6850.8	149.5	VAC	0.0	2.4	0.7	0.8	4.1	2.5	0.9	
	10:45	6851.3	147.0	VAC	37.10/0.0	1.9	0.0	36.65/0.0	2.5	35.45/1.5	0.0	
	11:15	6851.8	147.7	VAC	0.0	2.3	0.0	0.6	4.1	2.5	0.8	
			VAC/DTW									
STEP TEST #3	11:30	6852.1	168.5	VAC	0.0	2.0	0.0	0.6	4.1	2.3	0.6	
	12:00	6852.5	166.3	VAC	37.10/0.0	2.1	0.7	36.65/0.6	4.2	35.35/2.4	0.6	
	12:30	6853.0	162.0	VAC	0.0	2.5	0.5	0.9	4.6	2.8	1.0	
			VAC/DTW									
STEP TEST #4	12:45	6853.3	48.0	VAC	0.0	1.2	0.0	0.0	2.0	1.1	0.0	
	13:15	6853.9	50.5	VAC	37.05/0.0	1.5	0.0	36.65/0.0	2.0	35.31/1.5	0.0	
				VAC								
			VAC/DTW									
CONSTANT method	13:45	6854.3	158.7	VAC	0.0	2.2	0.7	0.6	4.3	2.4	0.7	
	14:30	6855.3	156.7	VAC/DTW	37	10.0	2.2	0.8	36.70/0.9	4.2	35.3/2.4	1.1
	15:00	6855.6	154.5	VAC	0.0	2.7	0.6	0.6	5.0	3.0	0.8	
	15:30	6856.1	154.3	VAC/DTW	0.0	2.3	0.9	1.0	4.3	2.6	1.3	
	16:00	6856.7	151.4	VAC	0.0	2.9	0.6	0.7	5.0	3.1	2.9	
	16:30	6857.1	151.8	VAC/DTW	36.98/			36.65/		35.3/		
	16:45	6857.4	153.5	VAC		2.7	0.7	0.6	5.2	3.2	0.8	
				VAC/DTW								
				VAC								
				VAC/DTW								

EW-2 DTW  
 9:30 36.20  
 10:45 36.10  
 12:00 36.05  
 13:15 35.97  
 14:30 35.90  
 16:30 35.85