RECEIVED

11:13 am, Dec 23, 2011

Alameda County
Environmental Health

December 21, 2011

Mr. Paresh Khatri
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94501-6577

**Subject:** **Remediation Report**
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California
Fuel Leak Case No. RO0003014

Dear Mr. Khatri:

Enclosed please find the *Remediation Report* for the Crown Chevrolet Cadillac Isuzu site at 7544 Dublin Boulevard and 6707 Golden Gate Drive in Dublin, California (Fuel Leak Case No. RO0003014, GeoTracker Global ID T10000001616). This report summarizes remediation activities conducted by AMEC Geomatrix, Inc. (AMEC), on behalf of Crown Chevrolet Cadillac Isuzu, in October 2011.

I declare under penalty of perjury that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Please contact me at (925) 556-3201 or Avery Patton of AMEC at (510) 663-4154 if you have any questions regarding this report.

Sincerely yours,

Patrick Costello

Patrick Costello
Owner
Crown Chevrolet Cadillac Isuzu

Attachment: Remediation Report

cc: Terri Costello, Betty J. Woolverton Trust
Greggory Brandt, Wendel, Rosen, Black & Dean LLP
Tondria Hendrix, Zurich North American Insurance
Thomas L. Vormbrock, Rimkus Consulting Group, Inc.
Terri Costello, Betty J. Woolverton Trust

# Remediation Report

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

*Prepared for:*
**Former Crown Chevrolet, Dublin, California**

*Prepared by:*
**AMEC, Oakland, California**

December 2011

Project OD10160070.00005

**REMEDIATION REPORT**
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California
Fuel Leak Case No. RO0003014

December 21, 2011
Project OD10160070.00005

This report was prepared by the staff of AMEC Geomatrix, Inc., under the professional supervision of Andrew M. Lojo. The findings, recommendations, specifications, and/or professional opinions presented in this report were prepared in accordance with generally accepted professional geologic practice, and within the scope of the project. There is no other warranty, either express or implied.

REGISTERED PROFESSIONAL GEOLOGIST
ANDREW M. LOJO
6034
EXP. 2/28/2013
STATE OF CALIFORNIA

Andrew M. Lojo, PG #6034
Senior Geologist

\\Oad-fs1\doc_safe\16000s\160070\4000\2011_12_RemediationRpt\01 Text\00 Certification.docx\

# TABLE OF CONTENTS

**TABLE OF CONTENTS**
(Continued)

## TABLES



## FIGURES



## APPENDICES

# REMEDIATION REPORT
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

## 1.0 INTRODUCTION

AMEC Geomatrix, Inc. (AMEC), has prepared this report on behalf of Crown Chevrolet Cadillac Isuzu (Crown) for the property located at 7544 Dublin Boulevard and 6707 Golden Gate Drive in Dublin, California (the site; Figure 1). This report presents the results of soil remediation activities conducted at two areas within Building B at the site (Figures 2 and 3); a former oil-water separator sump (the sump), and a former front-end alignment pit (F.E. Pit). Dewatering was conducted as an additional remedial measure to remove VOC-affected groundwater from the sump excavation. The work was performed in response to the finding of elevated volatile organic compound (VOC) concentrations in soil and groundwater at these locations, as described in the *Revised Soil and Groundwater Investigation Report*, submitted to the Alameda County Health Agency, Department of Environmental Health (ACEH) on April 18, 2011 (AMEC, 2011a).

The remedial activities were conducted from October 18 through 31, 2011, by Pacific States Environmental Contractors, Inc. (Pac States), a California Class A licensed contractor with a supplemental Hazardous Substance Removal Certification. Pac States implemented the remedial activities described in the *Revised Sump Remediation Work Plan* (Work Plan) submitted to ACEH on May 26, 2011 (AMEC 2011b), under the direction of AMEC. The Work Plan was approved by ACEH on June 30, 2011.

Although not described in the Work Plan, Pac States also performed additional soil remediation activities at the nearby F.E. Pit, where similar constituents were detected in soil at the sump. AMEC notified ACEH of the additional planned remedial excavation by e-mail on September 14, 2011, after receipt of additional soil investigation results that showed the presence of elevated concentrations of VOCs in soil in this area.

## 2.0 BACKGROUND

The site is located on the relatively flat floor of a valley that extends to the north-northwest, toward San Ramon and Danville. The closest water body is a creek that flows through a culvert. The creek flows from a gully located west of the site, enters a culvert north of the site, and then bends to the south, passing approximately 1,000 feet east of the site. Groundwater has been encountered in borings and wells at both the former Montgomery Ward property (Environmental Audit, Inc., 1996) across Dublin Boulevard to the north of the site, and at the former Quest Laboratory property (Bureau Veritas, 2009), immediately south of the site, at depths ranging from approximately 8 to 16 feet below ground surface (bgs). Groundwater flows to the east-southeast in the vicinity of the site, based on monitoring data associated with the former Montgomery Ward property.

Several phases of soil and groundwater investigation were conducted at the site from October 2008 through January 2011; these investigations are described in more detail in the Work Plan (AMEC, 2011b). Information obtained during those investigations identified the presence of VOCs in soil and groundwater underlying an oil-water separator sump in Building B (the sump). Further soil and groundwater investigation activities completed in August 2011, and described in the *Soil, Groundwater, and Soil Vapor Investigation Report,* submitted to ACEH on September 27, 2011 (AMEC, 2011c), identified the presence of VOCs in soil beneath the F.E. Pit as well. The VOCs of concern in both areas include chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene.

## 3.0 OBJECTIVES AND REMEDIAL GOALS

Concentrations of VOCs detected in soil and groundwater samples from the site were compared to Environmental Screening Levels (ESLs) published by the California Regional Water Quality Control Board, San Francisco Bay Region (Regional Water Board), based on a residential land use scenario, and assuming that groundwater is a drinking water resource (Regional Water Board, 2007). The ESLs are conservative screening levels that correspond to an acceptable risk level; concentrations of the constituents below their respective ESLs can be considered to pose no significant risk. Concentrations of constituents above their respective ESLs do not necessarily indicate a risk is present, but rather suggest that additional scrutiny is warranted.

Analytical laboratory results for soil and groundwater samples collected in the vicinity of the sump located in Service Area 2 of Building B, and for soil located in the vicinity of the former F.E. Pit located in Service Area 1 of Building B indicated that VOC concentrations were above their respective ESLs.

The objectives of the remedial activities were to remove accessible soil impacted by VOCs in the sump and F.E. Pit areas, and to remove some groundwater that was impacted by VOCs in the sump area. The locations of the sump and F.E. Pit excavations are shown on Figure 3.

## 4.0 REMEDIATION ACTIVITIES

The pre-field and field activities performed during the October 2011 remedial work are discussed in the following sections.

### 4.1 PRE-FIELD ACTIVITIES

Activities performed prior to beginning field work are discussed below.

#### 4.1.1 Excavation Design

Previously submitted reports (AMEC, 2011a and 2011c; Ninyo & Moore, 2011a and 2011c; and Basics Environmental, 2008) summarized concentrations of VOCs in soil and groundwater in the vicinity of the sump and F.E. Pit. The reports indicated the following:

- Concentrations of VOCs in soil declined with depth beneath the base of the sump and F.E. Pit.
- Concentrations of VOCs in soil declined laterally away from the sump (i.e., within approximately 15 feet) and did not extend a significant distance beyond the boundaries of the F.E. Pit (i.e., within approximately 5 feet).
- VOCs were present in shallow groundwater above drinking water ESLs beneath the sump, but not beneath the F.E. Pit.

The excavation design was restricted by the presence of one interior building wall and one exterior building wall adjacent to each excavation area.

Based on the data provided in the above-referenced reports, and the restrictions due to the building walls, the approximate excavation boundaries were established at 20 feet by 20 feet at the sump, and approximately 12 feet by 12 feet at the F.E. Pit (Figure 2). A depth of 16 feet below ground surface (bgs) was selected for the sump excavation, which is approximately 1 to 5 feet below the depth that groundwater was encountered in the previous borings in the vicinity. A depth of 12 feet bgs was selected for the F.E. Pit excavation, as soil boring data indicated that VOC concentrations were below ESLs by 12 feet bgs.

In May 2011, AMEC retained Gregg Drilling and Testing, Inc., to advance a boring adjacent to the sump excavation area using cone penetrometer technology (CPT). The CPT boring was advanced to obtain geotechnical data that would be needed to evaluate excavation shoring options.

Pac States retained Cornerstone Earth Group (Cornerstone), to review the CPT data, as well as copies of soil boring logs from prior investigations at the site, in order to recommend appropriate shoring methods. Following consultation with Cornerstone, and based on the presence of internal and external building walls, Pac States chose to perform both excavations using a slot-cutting method, which avoids the need to install traditional shoring.

Slot cutting is a method of removing soil near structures and building foundations in thin slices to minimize the amount of exposed vertical surfaces at any one time. The maximum width of each vertical excavation cut recommended by Cornerstone was originally 1.5 feet. Cornerstone also recommended that a minimum of 3 feet of soil or backfill material be left in place between open trenches at any time. Each trench was required to be backfilled using a mixture of sand and cement (slurry) in accordance with Cornerstone's mix recommendations. A minimum of 24 hours was specified to allow the slurry to cure before adjacent slots could be excavated. The slurry is a low permeability material designed to meet ACEH requirements, as specified in the Work Plan.

Copies of Cornerstone's engineering reports are included in Appendix A.

### 4.1.2 Permits

Prior to the start of excavation work, Pac States obtained a building permit from the City of Dublin (Permit No. BLDG-2011-00835). This permit was subsequently revised to include the F.E. Pit excavation activities (Permit No. BLDG-2011-01392). Pac States also obtained a Limited Use Permit from the Dublin San Ramon Services District (Services District; No. LCP 11-021) to replace the oil-water separator and upgrade it to meet current building code requirements.

In addition, AMEC filed an excavation notification form with the Bay Area Air Quality Management District on October 11, 2011, and obtained an Industrial Wastewater Discharge Permit from the Services District (No. 11012) to discharge groundwater removed from the sump excavation, to their wastewater treatment plant, a publicly owned treatment works (POTW).

Copies of the permits obtained for the project are included in Appendix B.

### 4.1.3 Utility Clearance

Prior to beginning the excavation, the anticipated boundaries of the excavations were marked with white paint by Pac States, and Underground Services Alert (USA) was contacted to identify public utilities, if any, that may be in the vicinity of the excavation. Pac States also retained a private underground utility locator, Cruz Brothers, of San Jose, California, to identify below-grade building utilities in the excavation areas.

As required by the Services District in permit LCP 11-021, the drain line that discharged waste water from Crown's automatic car wash to the oil-water separator was disconnected and removed, and the water supply line servicing the car wash, located east of Building B, was cut and capped.

### 4.1.4 Health and Safety

Field work activities performed by AMEC personnel were conducted in accordance with AMEC's *Environmental Site Health and Safety Plan* (Health and Safety Plan [AMEC, 2011d]). Additionally, Pac States developed and followed a separate health and safety plan for the excavation and construction activities.

During excavation of affected soil, AMEC performed air monitoring of VOCs, carbon monoxide (CO), and benzene, using the following equipment:

- a MultiRAE Plus, photoionization detector (PID) and Five-Gas Detector, to screen the air for the presence of VOCs and CO; and
- a GASTEC GV-110 pump and benzene detector tubes, to screen the air for the presence of benzene.

The air monitoring instruments were calibrated according to the individual instrument specifications at the manufacturer's recommended calibration frequencies.

AMEC personnel performed the air monitoring in the worker breathing zone at approximately 15-minute intervals, or as otherwise specified in the Health and Safety Plan during excavation activities. The measured readings were compared to the action levels listed in the Health and Safety Plan to determine whether respiratory protection or other mitigating measures would be required. The action levels were not exceeded during the excavation activities.

### 4.2 EXCAVATION AND BACKFILLING ACTIVITIES

The excavation and backfilling activities were performed from October 18 through 28, 2011. The excavation locations are shown on Figures 2 through 6. Soil within each area was screened using a PID during soil removal activities for the presence of VOCs. The excavation sidewalls were also visually observed for the presence of soil discoloration to assist in targeting soil confirmation sample locations and/or collecting additional sidewall samples.

#### 4.2.1 Sump Excavation

Excavation work began in the sump area by removing a small cinder block wall, located adjacent to the sump excavation, and a small, elevated concrete pad that formerly supported a parts washer. After removal of these features, Pac States pumped out a mixture of oil and water from the oil-water separator, as described in Section 5.3. They then broke up and removed the concrete slab and oil-water separator, followed by the removal of the sanitary sewer and car wash lines connected to it. The concrete and cinderblock materials were transported outside the building using a backhoe, where they were placed on plastic sheeting. The sanitary sewer and car wash lines were located and capped along the northern and southern sidewalls of the sump excavation, as described in Section 4.1.3.

Following removal of these materials, the deeper excavation was conducted using a CAT 446D backhoe. The backhoe was positioned so that it could remove the affected soil in slots that were approximately 18 inches wide by 10 feet long, and 16 feet deep. Approximately 3 feet of undisturbed soil or slurry backfill was left between open trenches, in accordance with the excavation design. The excavated soil was placed into a small dump truck, and was transported to a stockpile area located outside the building, as described in Section 4.5.

At the end of each work day, the slot excavations were backfilled with cement slurry, consisting of approximately 32 pounds of Portland cement per cubic yard of sand and water. The slurry mix design specifications are included in Appendix A. The slurry was poured into the trenches directly from a cement truck's chute. The trenches were filled in an approximately simultaneous manner by alternating the filling from one trench to another to avoid putting unnecessary lateral hydraulic pressure on the trench walls. The slurry was allowed a minimum of 24 hours to cure before excavating the trench next to it. The slurry was placed to approximately 4 inches below the top of the surrounding concrete slab.

On October 21, 2011, two of the previously poured slurry walls (formerly trenches) fell over during excavation activities after Pac States excavated the soil adjacent to them. The failure occurred when Pac States began excavation of a new trench that was perpendicular to these two standing slurry walls. A third wall also caved in while removing the soil and debris that fell into the now wider excavation area.

This resulted in more excavation sidewall exposure than recommended in the excavation design; however, the excavation walls were firm, and no displacement was observed. Pac States therefore completed excavation of the now wider area, and backfilled the entire area with slurry. Cornerstone's engineer was contacted to inspect the area. He arrived the following work day, and after reviewing the information and observing the subsequent trenches, allowed Pac States to increase the width of the trenches to up to 5 feet wide, because the greater thickness of slurry fill would be more stable when further excavation actives occurred next to it, and because the native soil showed no signs of destabilization. The southeastern corner of the sump excavation was left open after completion of excavation and backfilling in the remainder of the sump area. This corner was excavated to approximately 16 feet deep and was left open for approximately three days so that groundwater could be removed, as specified in the Work Plan. Groundwater removal activities are further discussed in Section 4.6.

### 4.2.2 F.E. Pit Excavation

After the sump excavation was approximately 50 percent complete, Pac States began excavation activities at the F.E. Pit, which was approximately 12 feet by 12 feet by 4 feet deep and filled with pea gravel. Excavation work began with removal of the concrete slab covering the pit, as well as removal of approximately the pea gravel that was located inside the pit, beneath the slab.

Approximately 1 inch of black viscous oil was observed at the bottom of the F.E. Pit; the oil was removed as described in Section 5.3. The oil was located in the center of its concrete floor, which appeared to be intact. Following removal of the oil, the concrete floor was then broken and removed. The concrete materials and pea gravel were transported to the outdoor stockpile area and were added to the existing concrete stockpile (from the sump) on plastic sheeting.

Following removal of the floor of the F.E. Pit, deeper soil was excavated using the backhoe, according to the modified excavation design verbally communicated by Cornerstone in the field, as described in Section 4.2.1. The concrete walls of the F.E. Pit functioned as shoring for the upper 4 feet of the excavation, and were therefore not removed.

The F.E. Pit excavation trenches were backfilled with slurry in the same manner as the sump excavation. The slurry was placed to approximately 4 inches below the top of the surrounding concrete slab.

## 4.3 CONFIRMATION SAMPLING

Ten soil confirmation samples and two excavation groundwater samples were collected as excavation activities were completed. Samples were labeled with unique identifiers and the sample collection time, and placed into zip-closure plastic bags. Samples were stored in an ice-chilled cooler pending transport under AMEC chain-of-custody procedures to TestAmerica Laboratories, Inc. (TestAmerica), of Pleasanton, California, a California Department of Public Health−certified analytical laboratory. Two split groundwater samples and one split soil confirmation sample were also collected within the sump excavation, labeled and stored the same manner as the primary samples, and shipped to Friedman & Bruya, Inc. (Freidman & Bruya), of Seattle, Washington, which is also a California Department of Public Health−certified analytical laboratory.

The locations of the soil and excavation groundwater samples collected at the sump and F.E. Pit excavations are shown on Figures 4 and 5, respectively.

### 4.3.1 Soil Confirmation Samples

Five sidewall soil confirmation samples were collected from the sump excavation. One soil sample each was collected from the north, west, and east sidewalls of the sump excavation. Two soil samples were collected along the south sidewall, within approximately 3 feet of each other, because slightly elevated PID readings were detected at the second location during subsequent excavation activities in this area. The sidewall soil samples were collected at approximately 8 feet bgs (the midpoint depth of the excavation). A soil confirmation sample was not collected from the bottom of the sump excavation due to the presence of groundwater in the excavation, as specified in the Work Plan.

Four sidewall soil confirmation samples were collected from the F.E. Pit excavation. One sidewall soil confirmation sample was collected from each wall of the F.E. Pit excavation at approximately 6 feet bgs (the midpoint depth of of the excavation). One bottom confirmation soil sample was collected from the approximate center of the F.E. Pit excavation, at approximately 12 feet bgs.

Soil confirmation samples were collected from the bucket of the backhoe and placed directly into sample containers after removing approximately 1 to 3 inches of surface soil from the top of the sample collection point in the bucket. Soil samples collected for VOC and gasoline range organics (GRO) analyses were placed into laboratory-supplied volatile organic analysis (VOA) containers, using a new, clean TerraCore™ sampler for each sample. The VOA containers were supplied by the laboratory with preservatives in accordance with U.S. Environmental Protection Agency (U.S. EPA) Method 5035. Soil confirmation samples collected for diesel range organics (DRO), motor oil range organics (MORO) and/or TPH as Stoddard solvent (TPHss) analyses were placed directly into laboratory-supplied sample jars.

#### 4.3.2 Excavation Groundwater Samples

Groundwater was encountered at approximately 14 feet bgs within the sump excavation. One groundwater sample was collected at the beginning of excavation dewatering and a second sample was collected after completion of excavation dewatering activities. Groundwater samples were collected directly from the sump excavation using a clean, disposal bailer. Groundwater samples were placed into laboratory-supplied containers equipped with preservatives appropriate for the desired analyses.

### 4.4 LABORATORY ANALYTICAL METHODS

The soil and groundwater samples were analyzed for the following:

- VOCs, including benzene, toluene, ethylbenzene, and xylenes (BTEX, collectively) and naphthalene, using U.S. EPA Method 8260B;
- GRO using U.S. EPA Method 8260B; and/or
- DRO, MORO, and/or TPHss using U.S. EPA Method 8015, following a silica gel preparation procedure in accordance with U.S. EPA Method 3630C. In addition, the DRO and MORO water samples were filtered by the laboratory using a 0.7-micron glass-fiber filter prior to analysis.

The water sample collected from the groundwater storage tank was analyzed for Total Toxic Organics (TTO) using U.S. EPA Method 624 and 625, in accordance with the Industrial Wastewater Discharge permit, plus GRO and DRO using the same methods described above.

### 4.5 SOIL HANDLING AND STOCKPILING

Soil removed from the excavation was placed into a dump truck in order to be transferred to the parking lot south of Building B. Stockpiles were constructed on plastic sheeting and covered with plastic sheeting at the end of each work day.

### 4.6 EXCAVATION DEWATERING

As discussed above, VOCs are present in shallow groundwater beneath the sump. As an additional remedial measure to remove VOC-affected groundwater, the sump excavation was advanced to a depth of approximately 16 feet bgs and dewatering was conducted within the sump excavation prior to backfilling.

Groundwater was removed from the sump excavation using an electric submersible pump. The water was pumped to a 20,000-gallon steel storage tank using a 1.5 inch diameter flat discharge hose. The storage tank was temporarily located on-site, south of the Building B.

If water accumulated in an individual trench, it was removed from the trench prior to slurry placement during excavation activities in the sump area. In addition, the southeast quadrant of the sump excavation was left open for approximately three days so that groundwater could accumulate in the excavation and be removed daily. Groundwater removal from the open excavation occurred from October 23 through 25, 2011. Approximately 5,600 gallons of VOC-affected water were removed from the sump excavation prior to backfilling.

No groundwater entered the F.E. Pit excavation; therefore, no dewatering was necessary.

### 4.7 SITE RESTORATION

Each excavation area was backfilled using slurry at the end of each day of excavation to approximately 4 inches below grade prior to site restoration.

Once excavation and backfilling activities were completed, the excavation was restored by replacing the concrete slab to match existing conditions. Pac States installed No. 3 rebar at approximately 12-inch spacing and then poured concrete to complete the final 4 inches. The concrete was placed flush and level with the surrounding concrete floor and finished to match existing conditions.

The exterior car wash sewer line, which formerly discharged to the oil-water separator sump, was disconnected and removed, and the water supply line servicing the exterior car wash was cut and capped as required by the Sanitary District.

Before completion of the excavation activities, Crown informed AMEC that replacement of the oil-water separator was no longer required. Therefore, the oil-water separator was not replaced, and the sewer line that the former oil-water separator discharged to was capped at the south wall of the sump excavation using a rubber no-hub band cap.

## 5.0 WASTE CHARACTERIZATION AND DISPOSAL

Waste materials generated during remedial activities included soil, concrete, pea gravel, groundwater, the oil encountered in the bottom of the F.E. Pit, and a mixture of oil and water that was removed from the oil-water separator sump. The characterization and disposal of these wastes are described below.

## 5.1 SOIL

In-situ analytical laboratory results for soil samples previously collected within the excavation area were used to characterize the soil for disposal. These data were presented to Republic Services, Inc. (Republic), for review and acceptance as Class II, non-hazardous waste. The waste was approved for disposal at Republic's Forward Landfill located in Manteca, California as Class II, Non-Hazardous Waste. A copy of Republic's waste profile approval form (No. 42041110739) is included in Appendix C.

Following completion of the excavation and stockpiling, a total of 432 tons of VOC-affected soil, concrete, and pea gravel had been removed from the sump and F.E. Pit excavations and transported to the Forward Landfill. The soil, concrete, and pea gravel were transported by DenBeste Transportation, Inc., on October 27 and 28, 2011.

## 5.2 GROUNDWATER

After completion of the excavation activities, a sample of the groundwater that was removed from the excavation was collected from the storage tank, in accordance with the requirements of the Industrial Wastewater Discharge Permit. The groundwater was then discharged to the on-site sanitary sewer after approval from the Sanitary District. A copy of the Sampling and Flow Report submitted to the district for approval, which includes the laboratory analytical results of the sample, is included in Appendix D.

Approximately 5,600 gallons of VOC-affected water were removed from the sump excavation and were discharged to the POTW under Industrial Wastewater Discharge Permit No. 11012 on December 16, 2011.

Additional waste water and residual sediment will be generated during cleaning of the groundwater storage tank (i.e., rinsate), and will be disposed of at an appropriately licensed disposal facility. It is anticipated that the rinsate will be non-hazardous.

## 5.3 OILS

The oil-water mixture removed from the oil-water separator sump was placed into one 55-gallon drum and temporarily stored on-site. Oil absorbent clay was used to soak up the residual oil encountered at the bottom of the F.E. Pit. After the clay had absorbed the oil, the material was shoveled into two 55-gallon drums that were also temporarily stored on-site. The three drums will be disposed of as hazardous waste at an appropriately licensed disposal facility, pending receipt of a temporary EPA ID number.

# 6.0 RESULTS

The field observations and laboratory analytical results for the soil and groundwater remediation activities are summarized below. A summary of the analytical laboratory tests performed on the samples collected during remediation activities is presented in Table 1. The laboratory analytical results for the soil samples collected from the excavation areas and vicinity are shown in Tables 2 and 3; selected results are also posted on Figures 4 and 5. The laboratory analytical results for the groundwater samples collected from the sump excavation and vicinity are shown in Tables 4 and 5; selected results are also posted on Figure 6.

Copies of the laboratory analytical reports and sample chain-of-custody records for the excavation samples are included in Appendix E.

### 6.1 AIR MONITORING RESULTS

During excavation of affected soil, AMEC performed air monitoring of VOCs, carbon monoxide, and benzene. PID readings were measured approximately 1 to 3 inches from the newly excavated soil in the backhoe bucket, and ranged from 0 to 33 parts per million (ppm). PID readings in the worker breathing zone did not exceed the action level of 15 ppm during excavation activities. The maximum VOC level reached in the worker breathing zone was 13.5 ppm, measured on October 25, 2011, but this level was not sustained for 5 minutes. Therefore, in accordance with the Health and Safety Plan, an upgrade of respiratory protection was not required. No benzene was detected during excavation activities, and carbon monoxide readings were below the action levels established in the Health and Safety Plan.

### 6.2 CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS

Analytical laboratory results for the confirmation soil samples are discussed in the following sections.

#### 6.2.1 Total Petroleum Hydrocarbons

Confirmation soil sample results for GRO, DRO, and MORO are presented in Table 2; results for DRO and MORO at the F.E. Pit are also shown on Figure 5. Table 2 and Figure 5 also present selected results for soil samples collected in the vicinity of the excavations during prior investigations. A summary of the petroleum hydrocarbon analytical laboratory results that exceeded their respective residential ESL values in the excavation confirmation samples is presented below:

- DRO was detected above the ESL (83 µg/L) in four samples collected from the F.E. Pit (FEPIT-EXS-5-6, FEPIT-EXS-6-6, FEPIT-EXS-9-6, and FEPIT-EXS-10-12) at concentrations ranging from 89 to 1,600 micrograms per kilogram (µg/kg).
- MORO was detected above the ESL (370 µg/kg) in one sample collected from the F.E. Pit (FEPIT-EXS-6-6) at a concentration of 2,300 µg/kg.[1]

[1] Although diesel and motor oil range organic compounds (DRO and MORO) were detected above their respective ESLs in several samples, the analytical laboratories indicated that the sample chromatographic patterns did not resemble the diesel or motor oil standards used for quantitation.

DRO and MORO were not detected above their respective ESLs in confirmation samples collected from the sump excavation. GRO was not detected above the ESL in the confirmation samples from the F.E. Pit or the sump.

The highest concentrations of DRO and MORO were detected in the confirmation sample collected from the southern sidewall of the F.E. Pit excavation, underneath the exterior building wall (i.e., sample FEPIT-EXS-6-6). As shown on Figure 5, and in Table 2, total petroleum hydrocarbons were not detected above their respective ESLs in samples collected within approximately 5 feet of the F.E Pit excavation during previous investigations.

### 6.2.2 Volatile Organic Compounds

Confirmation soil sample results for VOCs are presented in Table 3; selected results are shown on Figures 4 and 5. Table 3 and Figures 4 and 5 also present selected results for soil samples collected in the vicinity of the excavations during prior investigations. A summary of the VOC analytical laboratory results that exceeded their respective residential ESL values in the excavation confirmation samples is presented below:

- Chlorobenzene was detected slightly above the ESL (1,500 µg/kg) in one sample collected from the sump excavation (SUMP-EXS-2-8) at a concentration of 1,600 µg/kg.
- 1,2-Dichlorobenzene was detected above the ESL (1,100 µg/kg) in four samples collected from the sump excavation (SUMP-EXS-2-8, SUMP-EXS-3-8, SUMP-EXS-4-8, and SUMP-EXS-8-8) at concentrations ranging from 1,500 to 3,300 µg/kg; and in three samples collected from the F.E. Pit excavation (FEPIT-EXS-5-6, FEPIT-EXS-6-6, and FEPIT-EXS-9-6) at concentrations ranging from 2,700 to 71,000 µg/kg.
- 1,3-Dichlorobenzene was detected above the ESL (7,400 micrograms per liter [µg/L]) in one sample collected from the F.E. Pit excavation (FE PIT-EXS-6-6) at a concentration of 10,000 µg/kg,
- 1,4-Dichlorobenzene was detected above the ESL (590 µg/L) in three samples collected from the F.E. pit excavation (FEPIT-EXS-5-6, FEPIT-EXS-6-6, and FEPIT-EXS-9-6) ranging from 1,600 to 43,000 µg/L.

No other VOCs were detected above their respective ESLs in the confirmation samples.

The highest concentrations of VOCs were detected in the F.E. Pit confirmation sample collected from the southern sidewall of the F.E. Pit excavation, underneath the exterior building wall (i.e., sample FEPIT-EXS-6-6). As shown on Figures 4 and 5, and in Table 3, VOCs were not detected above their respective ESLs in samples collected within approximately 5 feet of the sump or F.E Pit excavations during previous investigations.

## 6.3 SUMP EXCAVATION GROUNDWATER ANALYTICAL RESULTS

Analytical results for the two groundwater samples collected from the sump excavation are discussed in the following sections. The first sample was collected at the start of groundwater removal activities, and the second sample was collected three days later, upon completion of groundwater removal activities. Split samples of both were submitted to Friedman & Bruya (in addition to the primary samples that were submitted to TestAmerica).

### 6.3.1 Total Petroleum Hydrocarbons

Sample results for GRO, DRO, and MORO for groundwater present in the sump excavation are presented in Table 4, and are shown on Figure 6. Table 4 and Figure 6 also present the selected results for grab groundwater samples collected in the vicinity of the excavations during prior investigations.

A summary of the GRO, DRO, and MORO analytical laboratory results that exceeded their respective drinking water ESLs in the sump excavation groundwater samples is presented below (the higher of the primary and split sample concentrations is presented):

- GRO was detected above the ESL (100 µg/L) in the first excavation groundwater sample at 3,900 J[2] µg/L, and in the second excavation groundwater sample at 6,200 µg/L.
- DRO (filtered) was detected above the ESL (100 µg/L) in the first excavation groundwater sample at 5,200 J µg/L, and in the second excavation groundwater sample at 5,600 J µg/L.[3]

MORO was not detected above the ESL in either excavation groundwater sample.

The analytical laboratories indicated during this and a prior investigation that the chromatograms for the GRO and/or DRO results did not match the standards used; the results may instead represent VOCs quantified in the GRO and DRO range. As a result, most downgradient grab groundwater samples have not been analyzed for GRO and DRO. The extent of VOCs in groundwater is discussed in the following section.

### 6.3.2 Volatile Organic Compounds

Excavation groundwater sample results for VOCs are presented in Table 5 and selected results are shown on Figure 6. Table 5 and Figure 6 also present results for grab groundwater samples collected in the vicinity of the excavations during prior investigations.

A summary of the VOC analytical laboratory results that exceeded their respective drinking water ESLs in the sump excavation groundwater samples is presented below (the higher of the primary and split sample concentrations is presented).

- Benzene was detected above ESL (1.0 µg/L) in the first excavation groundwater at 8.2 µg/L, and in the second excavation groundwater sample at 7.1 µg/L.

[2] J indicates that the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample

[3] Although gasoline and diesel range organic compounds (GRO and DRO) were detected above their respective ESLs in both samples, the analytical laboratories indicated that the sample chromatographic patterns did not resemble the gasoline or diesel standards used for quantitation.

- Chlorobenzene was detected above the ESL (25 µg/L) in the first excavation groundwater sample at 2,800 µg/L, and in the second excavation groundwater sample at 3,000 µg/L.
- 1,2-Dichlorobenzene was detected above the ESL (10 µg/L) in the first excavation groundwater at 21,000 J µg/L, and in the second excavation groundwater sample at 21,000 µg/L.
- 1,4-Dichlorobenzene was detected above the ESL (5.0 µg/L) in the first excavation groundwater at 250 µg/L, and in the second excavation groundwater sample at 130 µg/L.
- Tetrachloroethene (PCE) was detected in the first excavation groundwater sample at 3.5 µg/L, and in the second excavation groundwater sample collected at 8.9 µg/L. The ESL for PCE is 5.0 µg/L.
- 1,2,4-Trichlorobenzene was detected above the ESL (5.0 µg/L) in the first excavation groundwater sample at 12 µg/L, and in the second excavation groundwater sample at 6.6 µg/L.

No other VOCs were detected above their respective ESLs in either excavation groundwater sample.

As shown on Figure 6 and in Table 5, VOCs were also detected above their respective ESLs in samples collected downgradient of the sump excavation area during previous investigations. However, these concentrations attenuate to less than ESLs within approximately 15 feet of the sump excavation area.

Groundwater was not encountered during the F.E. Pit excavation; therefore, no groundwater samples were collected in October 2011. VOCs were not detected above their respective ESLs in samples collected beneath and in the vicinity of the F.E Pit excavation during previous investigations.

## 7.0 DATA QUALITY REVIEW

AMEC evaluated the analytical data using guidelines set forth in the U.S. Environmental Protection Agency's (EPA's) *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (U.S. EPA, 2008).

Quality assurance procedures for soil and groundwater samples included laboratory analysis of method blank samples, surrogate spikes, and laboratory control samples/laboratory control sample duplicates (LCS/LCSDs); and evaluation of the analytical results.

A review of the qualified data is presented below.

- For the soil sample FEPIT-EXS-10-12, the internal standard responses were below acceptable limits, resulting in the reported VOC concentrations being biased high. The sample shows evidence of matrix interference; therefore, the detected VOC results were qualified with "J" to indicate that the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

- For the sump excavation groundwater samples (SUMP-EXB-WATER-1-16 and SUMP-EXB-WATER-2-16) the laboratories indicated that sample chromatographic patterns did not match the standards used for quantitation. The reported concentrations of GRO, DRO, and MORO in the samples were qualified with "J" to indicate that the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
- For the F.E Pit soil samples (FEPIT-EXS-5-6, FEPIT-EXS-6-6, FEPIT-EXS-9-6, and FEPIT-EXB-10-12) the laboratory indicated that sample chromatographic patterns did not match the standards used for quantitation. The reported concentrations of DRO and MORO in the samples were therefore qualified with "J" to indicate that the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
- For the excavation groundwater sample SUMP-EXB-WATER-2-16, the reported concentration for 1,2-dichlorobenzene was above the valid instrument calibration range. Therefore, the 1,2-dichlorobenzene concentration was qualified with “J” to indicate that the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.

Overall, the results of the data quality review indicate that the analytical results are valid and useable. The data, as qualified, are acceptable and can be used for decision-making purposes; however, the limitations identified by the applied qualifiers should be considered when using the data. The data qualifiers are included on the laboratory reports in Appendix E.

## 8.0 SUMMARY AND CONCLUSIONS

As discussed above, several phases of soil and groundwater investigation work have been performed at the site since 2008. Those investigations identified two areas impacted by VOCs (VOCs were present above residential/drinking water ESLs in soil and groundwater at the sump, and in soil only at the F.E. Pit) and one area potentially impacted by TPH (TPH was detected in soil at the F.E. Pit). The results for soil and groundwater samples collected from these areas showed that the VOC and/or TPH concentrations attenuated rapidly with distance from the sources (i.e., the sump and the F.E. Pit).

A total of 432 tons of VOC- and TPH-affected soil was removed from the sump and F.E. Pit excavations between October 18 through 28, 2011. Some limited amounts of soil where VOCs and TPH were detected above residential ESLs remain, because they are located underneath building walls and were therefore inaccessible for excavation. However, soil samples collected from within 5 feet show that concentrations have attenuated to below residential ESLs (Figures 4 and 5). Overall, the results for the post-excavation soil confirmation samples and the soil samples collected within a few feet of the excavations indicate that most of the VOC and TPH mass has now been removed from these areas.

The source of VOC impacts to groundwater from the sump area (i.e., the VOC-impacted soil above and below the water table) has been removed. Additionally, the potential source of VOC impacts to groundwater in the F.E. Pit area (i.e., the VOC-impacted soil above the water table) has been removed. Approximately 5,600 gallons of VOC-affected groundwater was removed from the sump excavation during the remedial activities, to reduce the mass of VOC-affected groundwater in the immediate vicinity of the sump excavation area.

Grab groundwater samples were previously collected within and downgradient of the sump and F.E. Pit (Figure 6) by AMEC and other consultants. These results indicate that VOC impacts to groundwater in the vicinity of the former sump attenuate to below drinking water ESLs within approximately 15 feet of the former sump.[4] The VOC impacts to groundwater downgradient of the sump excavation area are expected to decrease over time. VOCs and TPH were not detected above ESLs within or downgradient of the F.E. Pit.

Based on the removal of source material in the vicinity of the sump and F.E. Pit and the limited impact to groundwater near the sump, AMEC recommends that no further remediation activities be conducted in these areas.

It is recognized that residual impacts to soil remain in a currently inaccessible area at the F.E. Pit and that VOCs are present in groundwater near the sump. As such, the potential for VOCs in vapor phase to migrate to indoor air should be considered when considering site re-use or re-development alternatives.

[4] The PCE detected in groundwater in the vicinity of the sump is likely related to a separate release, upgradient of the sump.

## 9.0 REFERENCES


AMEC Geomatrix, Inc. (AMEC), 2011a, Revised Soil and Groundwater Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, April 18.

AMEC, 2011b, Revised Sump Remediation Work Plan, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, May 26.

AMEC, 2011c, Soil, Groundwater, and Soil Vapor Investigation Report, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, California, September 27.

AMEC, 2011d, Environmental Site Health and Safety Plan, Sump Remediation and Soil Excavation and Disposal, Dublin, California, October 4.

Bureau Veritas, 2009, Additional Soil and Groundwater Investigation (Fuel Leak Case No. RO0002860), Former Quest Laboratory, 6511 Golden Gate Drive, Dublin, California, March 13.

Basics Environmental, Inc. (Basics), 2009, Limited Phase II Environmental Site Sampling Report, 7544 Dublin Boulevard & 6707 Golden Gate Drive, Dublin, California, March 16.

California Regional Water Quality Control Board, San Francisco Region (Regional Water Board), 2007, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, November, revised May 2008.

Environmental Audit, Inc., 1996, Ground Water Monitoring Report, Fourth Quarter 1996, Montgomery Ward Auto Service Center, 7575 Dublin Boulevard, Dublin, California, December 12.

Ninyo & Moore, 2011a, Limited Phase II Environmental Site Assessment, Crown Chevrolet, 7544 Dublin Boulevard, Dublin, California, January 7.

Ninyo & Moore, 2011b, Additional Phase II Environmental Site Assessment, Crown Chevrolet, 7544 Dublin Boulevard, Dublin, California, September 16.

U.S. Environmental Protection Agency, 2008, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-08-01, June.

# TABLES

# TABLE 1

## SAMPLE AND ANALYTICAL MATRIX FOR OCTOBER 2011 SAMPLES [1]

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Samples were analyzed using the U.S. EPA methods shown in parentheses

| Location | Sample ID | Sample Date | Sample Depth (feet bgs) | Media | VOCs plus Naphthalene (8260B) | GRO (8260B) | DRO/ MORO (8015B)[2] | TPHss (8015B)[2] |
|---|---|---|---|---|---|---|---|---|
| F.E. Pit Excavation Sidewalls | FEPIT-EXS-5-6 | 10/24/2011 | 6.0 | Soil | X | X | X | -- |
| | FEPIT-EXS-6-6 | 10/24/2011 | 6.0 | Soil | X | X | X | -- |
| | FEPIT-EXS-7-6 | 10/25/2011 | 6.0 | Soil | X | X | X | -- |
| | FEPIT-EXS-9-6 | 10/26/2011 | 6.0 | Soil | X | X | X | -- |
| F.E. Pit Excavation Bottom | FEPIT-EXB-10-12 | 10/26/2011 | 12.0 | Soil | X | X | X | -- |
| Sump Excavation Sidewalls | SUMP-EXS-1-9 | 10/19/2011 | 9.0 | Soil | X | X | X | -- |
| | SUMP-EXS-2-8 | 10/19/2011 | 8.0 | Soil | X | X | X | -- |
| | SUMP-EXS-3-8 | 10/20/2011 | 8.0 | Soil | X | X | X | -- |
| | SUMP-EXS-4-8 | 10/20/2011 | 8.0 | Soil | X | X | X | -- |
| | SUMP-EXS-8-8 | 10/26/2011 | 8.0 | Soil | X | X | X | X |
| Groundwater within Sump Excavation | SUMP-EXB-WATER-1-16 [3] | 10/26/2011 | 16.0 | Groundwater | X | X | X | -- |
| | SUMP-EXB-WATER-2-16[3] | 10/28/2011 | 16.0 | Groundwater | X | X | X | -- |

Notes

1. Samples were collected by AMEC Geomatrix, Inc. Soil and groundwater samples were analyzed by TestAmerica Laboratories, Inc., of Pleasanton, California, or Friedman & Bruya, Inc., of Seattle, Washington.
2. Samples were analyzed following a silica gel preparation in accordance with U.S. EPA Method 3630C.
3. Duplicate water samples were collected and submited to both TestAmerica and Friedman & Bruya using the same sample ID.

Abbreviations

-- = analysis not performed
bgs = below ground surface
DRO = diesel range organics
GRO = gasoline range organics
MORO = motor oil range organics
TPHss = total petroleum hydrocarbons quantified as Stoddard solvent
U.S. EPA = U.S. Environmental Protection Agency
VOCs = volatile organic compounds
X = analysis was performed

TABLE 2

## SUMMARY OF TOTAL PETROLEUM HYDROCARBONS IN SOIL [1]

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Concentrations reported in milligrams per kilogram (mg/kg)

| Location | Sample ID | Depth (feet bgs) | Date | Total Petroleum Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | GRO | DRO | MORO | TPHho | TPHss |
| **F. E. Pit** | | | | | | | | |
| Pre-excavation Boring within F.E. Pit Excavation [2] | SB-25-8.0 | 8.0 | 6/9/2011 | < 39 | NA | NA | **5,000** [3] | NA |
| | SB-25-12.0 | 12.0 | 6/9/2011 | NA | NA | NA | < 49 | NA |
| F.E. Pit Excavation Sidewalls | FEPIT-EXS-5-6 | 6.0 | 10/24/2011 | 2.2 | **110 J[4]** | 210 J[4] | NA | NA |
| | FEPIT-EXS-6-6 | 6.0 | 10/24/2011 | 4.6 | **1,600 J[4]** | **2,300 J[4]** | NA | NA |
| | FEPIT-EXS-7-6 | 6.0 | 10/25/2011 | < 0.22 | 1.1 | < 49 | NA | NA |
| | FEPIT-EXS-9-6 | 6.0 | 10/26/2011 | 0.29 | **170 J[4]** | 340 J[4] | NA | NA |
| F.E. Pit Excavation Bottom | FEPIT-EXB-10-12 | 12.0 | 10/26/2011 | < 0.21 | **89 J[4]** | 170 J[4] | NA | NA |
| West of F.E. Pit Excavation | SB-29-4.0 | 4.0 | 7/26/2011 | < 0.20 | 51 | 97 | 98 | NA |
| | SB-29-8.0 | 8.0 | 7/26/2011 | < 0.20 | < 1.0 | < 50 | < 50 | NA |
| | SB-29-12.0 | 12.0 | 7/26/2011 | < 0.19 | < 0.99 | < 50 | < 50 | NA |
| East of F.E. Pit Excavation | SB-30-4.0 | 4.0 | 7/26/2011 | < 0.20 | 2.9 | < 50 | < 50 | NA |
| | SB-30-8.0 | 8.0 | 7/26/2011 | < 0.18 | < 0.99 | < 49 | < 49 | NA |
| | SB-30-12.0 | 12.0 | 7/26/2011 | < 0.20 | < 1.0 | < 50 | < 50 | NA |
| South of F.E. Pit Excavation | SB-32-3.0 | 3.0 | 7/26/2011 | < 0.23 | 2.1 | < 50 | < 50 | NA |
| | SB-32-8.0 | 8.0 | 7/26/2011 | < 0.19 | < 0.99 | < 50 | < 50 | NA |
| | SB-32-12.0 | 12.0 | 7/26/2011 | < 0.20 | < 1.0 | < 50 | < 50 | NA |
| Southwest of F.E. Pit Excavation | SB-04-3.0 | 3.0 | 9/27/2010 | < 0.16 | 2.6 | < 50 | NA | NA |
| | SB-04-7.0 | 7.0 | 9/27/2010 | < 0.20 | < 0.99 | < 50 | NA | NA |
| | SB-04-8.5 | 8.5 | 9/27/2010 | < 0.19 | < 0.99 | < 49 | NA | NA |
| | SB-04-12.0 | 12.0 | 9/27/2010 | < 0.20 | < 1.0 | < 50 | NA | NA |
| North of F.E. Pit Excavation[5] | NM-B-5-2.0 | 2.0 | 12/16/2010 | < 0.93 | < 1.0 | < 1.0[6] | NA | NA |
| | NM-B-5-5.0 | 5.0 | 12/16/2010 | < 0.93 | < 1.0 | < 1.0[6] | NA | NA |
| North of F.E. Pit Excavation[5] | B7-4.0 | 4.0 | 2/24/2009 | < 1 | 33 | 180 | NA | < 1.0 |
| **Sump** | | | | | | | | |
| Pre-excavation Boring within Sump Excavation [2] | SB-03-1.3 | 1.3 | 9/28/2010 | < 0.19 | NA | NA | NA | NA |
| | SB-03-2.8 | 2.8 | 9/28/2010 | < 22 | NA | NA | NA | NA |
| | SB-03-3.2 | 3.2 | 9/28/2010 | **1,200** [7] | NA | NA | NA | NA |
| | SB-03-6.5 | 6.5 | 9/28/2010 | < 20 | NA | NA | NA | NA |
| | SB-03-11.5 | 11.5 | 9/28/2010 | < 22 | NA | NA | NA | NA |
| Pre-excavation Boring within Sump Excavation [2,5] | NM-B-6-3.5 | 3.5 | 12/6/2010 | **1,000** | NA | NA | NA | NA |
| | NM-B-6-4.5 | 4.5 | 12/6/2010 | 9.6 | NA | NA | NA | NA |
| | NM-B-6-7.0 | 7.0 | 12/6/2010 | 2.2 | NA | NA | NA | NA |
| Sump Excavation Sidewalls | SUMP-EXS-1-9 | 9.0 | 10/19/2011 | < 0.21 | < 0.99 | < 50 | NA | NA |
| | SUMP-EXS-2-8 | 8.0 | 10/19/2011 | < 0.25 | < 1.0 | < 50 | NA | NA |
| | SUMP-EXS-3-8 | 8.0 | 10/20/2011 | < 0.21 | < 0.99 | < 49 | NA | NA |
| | SUMP-EXS-4-8 | 8.0 | 10/20/2011 | 1.2 | 1.2 | < 49 | NA | NA |
| | SUMP-EXS-8-8 [8] | 8.0 | 10/26/2011 | < 2 | < 5 | < 25 | NA | < 5 |
| North of Sump Excavation | SB-14-4.0 | 4.0 | 6/7/2011 | 0.3 | NA | NA | NA | NA |
| | SB-14-8.0 | 8.0 | 6/7/2011 | < 0.20 | NA | NA | NA | NA |
| | SB-14-11.0 | 11.0 | 6/7/2011 | < 0.20 | NA | NA | NA | NA |
| | SB-14-12.0 | 12.0 | 6/7/2011 | < 0.20 | NA | NA | NA | NA |
| East of Sump Excavation | SB-18-4.0 | 4.0 | 6/7/2011 | < 0.29 | NA | NA | NA | NA |
| | SB-18-8.0 | 8.0 | 6/7/2011 | < 0.20 | NA | NA | NA | NA |
| | SB-18-12.0 | 12.0 | 6/7/2011 | < 0.21 | NA | NA | NA | NA |

**TABLE 2**

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS IN SOIL [1]**

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Concentrations reported in milligrams per kilogram (mg/kg)

| Location | Sample ID | Depth (feet bgs) | Date | Total Petroleum Hydrocarbons | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | **GRO** | **DRO** | **MORO** | **TPHho** | **TPHss** |
| West of Sump Excavation | SB-22-4.0 | 4.0 | 6/8/2011 | < 0.25 | NA | NA | NA | NA |
| | SB-22-9.0 | 9.0 | 6/8/2011 | < 0.19 | NA | NA | NA | NA |
| | SB-22-12.0 | 12.0 | 6/8/2011 | < 0.32 | NA | NA | NA | NA |
| South of Sump Excavation[5] | B8-4.0 | 4.0 | 2/24/2009 | < 1.0 | 1.3 | < 5.0 | NA | < 1.0 |
| Southeast of Sump Excavation | SB-19-4.0 | 4.0 | 6/7/2011 | < 0.21 | NA | NA | NA | NA |
| | SB-19-8.0 | 8.0 | 6/9/2011 | < 0.22 | NA | NA | NA | NA |
| | SB-19-11.0 | 11.0 | 6/9/2011 | < 0.27 | NA | NA | NA | NA |
| | SB-19-13.0 | 13.0 | 6/9/2011 | < 0.29 | NA | NA | NA | NA |
| Environmental Screening Level (residential land use) [9] | | | | 83 | 83 | 370 | 370 | 83 |

Notes

1. Except as noted, samples were collected by AMEC Geomatrix, Inc. Soil samples were analyzed by TestAmerica Laboratories, Inc., of Pleasanton, California, or by Friedman & Bruya, Inc., of Seattle, Washington. Samples were analyzed for GRO by TestAmerica using U.S. EPA Method 8260B, or by Friedman & Bruya using U.S. EPA Method 8015M; and for DRO, MORO, TPHho, and TPHss using U.S. EPA Method 8015B or 8015M, following a silica gel preparation procedure in accordance with U.S. EPA Method 3630C.
2. Soil in the vicinity of this sample location was removed during excavation activities and the data is shown with a gray background.
3. Results shown in **bold** exceed their respective Environmental Screening Levels.
4. AMEC requested that the laboratory review the chromatograms of samples that exceeded environmental screening levels to determine if they matched the DRO and MORO standard chromatograms used for quantitation. The laboratory indicated that they did not match the standards; therefore, the concentrations were qualified with "J."
5. Samples at this location were collected by Basics Environmental or Ninyo & Moore. Analytical methods are presented in their reports.
6. The analytical laboratory reported as oil range organics, which has the same carbon range as MORO.
7. The laboratory indicated that the spectra for sample SB-03-3.2 does not resemble the pattern for the laboratory's fresh gasoline standard. The GRO value reported is likely due to the presence of non-gasoline VOCs in the sample.
8. The sample at this location was analyzed by Friedman & Bruya, Inc., of Seattle, Washington.
9. California Regional Water Quality Control Board, San Francisco Region, 2007, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table A-1. Shallow Soil Screening Level (≤ 3 m bgs), Residential Land Use (groundwater is a current or potential drinking water resource), November, revised May 2008.

Abbreviations

< = not detected at or above the laboratory reporting limit shown
bgs = below ground surface
DRO = diesel range organics
GRO = gasoline range organics
J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
MORO = motor oil range organics
NA = not analyzed
TPH = total petroleum hydrocarbons
TPHho = total petroleum hydrocarbons quantified as hydraulic oil
TPHss = total petroleum hydrocarbons quantified as Stoddard solvent
U.S. EPA = U.S. Environmental Protection Agency

TABLE 3

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL [1]**

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per kilogram (µg/kg)

| Location | Sample ID | Depth (feet bgs) | Date | Acetone | Benzene | Bromo-benzene | Chloro-benzene | Ethyl-benzene | 2-Chloro-toluene | 1,2-Dichloro-benzene | 1,3-Dichloro-benzene | 1,4-Dichloro-benzene | Total Xylenes | Trichloro-ethene | n-Butyl-benzene | sec-Butyl-benzene | Naph-thalene | 1,2,4-Trichloro-benzene | 1,2,4-Trimethyl-benzene | 1,3,5-Trimethyl-benzene | cis-1,2-Dichloro-ethene | All Other VOCs Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **F. E. Pit** | | | | | | | | | | | | | | | | | | | | | | |
| Pre-excavation Boring within F.E. Pit Excavation [2] | SB-25-8.0 | 8.0 | 6/9/2011 | < 7700 | < 770 | < 770 | < 770 | < 770 | 2,100 | **34,000** [3] | 5,300 | **20,000** | < 1,500 | < 770 | < 770 | < 770 | < 770 | < 1,500 | < 770 | < 770 | < 770 | ND |
| | SB-25-12.0 | 12.0 | 6/9/2011 | < 40 | < 4.0 | < 4.0 | NA | < 4.0 | 10 | 690 | 47 | 200 | < 8.1 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 8.1 | < 4.0 | < 4.0 | < 4.0 | ND |
| F.E. Pit Excavation Sidewalls | FEPIT-EXS-5-6 | 6.0 | 10/24/2011 | < 43 | < 4.3 | 44 | 23 | < 4.3 | 200 | **2,700** | <440 | **1,600** | < 8.6 | < 4.3 | < 4.3 | < 4.3 | <8.6 | < 4.3 | 8.6 | < 4.3 | < 4.3 | ND |
| | FEPIT-EXS-6-6 | 6.0 | 10/24/2011 | < 49 | < 4.9 | 43 | 26 | < 4.9 | 330 | **71,000** | **10,000** | **43,000** | 17 | < 4.9 | 7.3 | < 4.9 | 44 | 16 | 47 | 8.5 | < 4.9 | ND |
| | FEPIT-EXS-7-6 | 6.0 | 10/25/2011 | < 43 | < 4.3 | < 4.3 | 5.6 | < 4.3 | 17 | < 4.9 | < 4.9 | < 4.9 | < 8.6 | < 4.3 | < 4.3 | < 4.3 | <8.6 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | ND |
| | FEPIT-EXS-9-6 | 6.0 | 10/26/2011 | < 45 | < 4.5 | 35 | 42 | < 4.5 | 160 | **6,400** | 230 | **4,000** | 12 | < 4.5 | < 4.5 | < 4.5 | < 8.9 | < 4.5 | < 4.5 | < 4.5 | 6.1 | ND |
| F.E. Pit Excavation Bottom | FEPIT-EXB-10-12 | 12.0 | 10/26/2011 | < 43 | < 4.3 | 4.3 J | 10 J | < 4.3 | 17 J | 170 J | 20 J | 110 J | < 8.6 | 6.8 J | < 4.3 | < 4.3 | < 8.6 | < 4.3 | < 4.3 | < 4.3 | 5.6 J | ND |
| West of F.E. Pit Excavation | SB-29-4.0 | 4.0 | 7/26/2011 | < 39 | < 3.9 | < 3.9 | <3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | ND |
| | SB-29-8.0 | 8.0 | 7/26/2011 | < 39 | < 3.9 | 4.8 | 4.7 | < 3.9 | 19 | 240 | 32 | 160 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | ND |
| | SB-29-12.0 | 12.0 | 7/26/2011 | < 38 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | 8.2 | 220 | 25 | 120 | < 7.7 | < 3.8 | < 3.8 | < 3.8 | 7.7 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | ND |
| East of F.E. Pit Excavation | SB-30-4.0 | 4.0 | 7/26/2011 | < 40 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 8.0 | < 4.0 | < 4.0 | < 4.0 | < 8.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | ND |
| | SB-30-8.0 | 8.0 | 7/26/2011 | < 36 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | 9.8 | 110 | 18 | 74 | < 7.2 | < 3.6 | < 3.6 | < 3.6 | < 7.2 | < 3.6 | < 3.6 | < 3.6 | < 3.6 | ND |
| | SB-30-12.0 | 12.0 | 7/26/2011 | < 39 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | 26 | 3.9 | 19 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | ND |
| South of F.E. Pit Excavation | SB-32-3.0 | 3.0 | 7/26/2011 | < 45 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | < 9.0 | < 4.5 | < 4.5 | < 4.5 | < 9.0 | < 4.5 | < 4.5 | < 4.5 | < 4.5 | ND |
| | SB-32-8.0 | 8.0 | 7/26/2011 | < 39 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 7.7 | < 3.9 | < 3.9 | < 3.9 | < 7.7 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | ND |
| | SB-32-12.0 | 12.0 | 7/26/2011 | < 39 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | < 7.8 | < 3.9 | < 3.9 | < 3.9 | < 7.8 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | ND |
| Southwest of F.E. Pit Excavation | SB-04-3.0 | 3.0 | 9/27/2010 | NA | < 3.3 | NA | NA | < 3.3 | NA | NA | NA | NA | < 6.5 | NA | NA | NA | < 5.0 | NA | NA | NA | NA | ND |
| | SB-04-7.0 | 7.0 | 9/27/2010 | NA | < 4.0 | NA | NA | < 4.0 | NA | NA | NA | NA | < 7.9 | NA | NA | NA | NA | NA | NA | NA | NA | ND |
| | SB-04-8.5 | 8.5 | 9/27/2010 | NA | < 3.9 | NA | NA | < 3.9 | NA | NA | NA | NA | < 7.8 | NA | NA | NA | NA | NA | NA | NA | NA | ND |
| | SB-04-12.0 | 12.0 | 9/27/2010 | NA | < 4.0 | NA | NA | < 4.0 | NA | NA | NA | NA | < 7.9 | NA | NA | NA | < 5.0 | NA | NA | NA | NA | ND |
| North of F.E. Pit Excavation [4] | NM-B-5-2.0 | 2.0 | 12/16/2010 | NA | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 9.8 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | ND |
| | NM-B-5-5.0 | 5.0 | 12/16/2010 | NA | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 9.8 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | ND |
| North of F.E. Pit Excavation [4] | B7-4.0 | 4.0 | 2/24/2009 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | ND |
| **Sump** | | | | | | | | | | | | | | | | | | | | | | |
| Pre-excavation Boring within Sump Excavation [2] | SB-03-1.3 | 1.3 | 9/28/2010 | < 38 | <3.8 | <3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | < 7.6 | < 3.8 | < 3.8 | < 3.8 | < 7.6 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | ND |
| | SB-03-2.8 | 2.8 | 9/28/2010 | < 4,400 | < 440 | <440 | **2,600** [2] | < 440 | < 440 | < 440 | < 440 | < 440 | < 890 | < 440 | < 440 | < 440 | < 890 | < 440 | < 440 | < 440 | < 440 | ND |
| | SB-03-3.2 | 3.2 | 9/28/2010 | < 52,000 | < 5,200 | < 5,200 | **90,000** | < 5,200 | < 5,200 | < 5,200 | < 5,200 | **5,400** | < 10,000 | < 5,200 | < 5,200 | < 5,200 | < 10,000 | < 5,200 | < 5,200 | < 5,200 | < 5,200 | ND |
| | SB-03-6.5 | 6.5 | 9/28/2010 | < 4,000 | < 400 | <400 | **26,000** | < 440 | < 400 | **30,000** | < 400 | **1,700** | < 800 | < 400 | < 400 | < 400 | < 800 | < 400 | < 400 | < 400 | < 400 | ND |
| | SB-03-11.5 | 11.5 | 9/28/2010 | < 4,400 | < 440 | <440 | **6,500** | < 440 | < 440 | **15,000** | < 440 | < 440 | < 880 | < 440 | < 440 | < 440 | < 880 | < 440 | < 440 | < 440 | < 440 | ND |
| Pre-excavation Boring within Sump Excavation [2,4] | NM-B-6-3.5 | 3.5 | 12/16/2010 | < 390 | < 390 | < 390 | **1,900** | < 390 | < 390 | < 390 | < 390 | **890** | < 780 | < 390 | 950 | 1,200 | < 390 | < 390 | < 390 | < 390 | < 390 | ND |
| | NM-B-6-4.5 | 4.5 | 12/16/2010 | < 310 | **590** | < 310 | **25,000** | < 310 | < 310 | < 310 | < 310 | **580** | < 620 | < 310 | < 310 | < 310 | < 310 | < 310 | < 310 | < 310 | < 310 | ND |
| | NM-B-6-7.0 | 7.0 | 12/16/2010 | < 340 | < 340 | < 340 | **19,000** | < 340 | < 340 | **22,000** | < 340 | **1,000** | < 680 | < 340 | < 340 | < 340 | < 340 | < 340 | < 340 | < 340 | < 340 | ND |
| Sump Excavation Sidewalls | SUMP-EXS-1-9 | 9.0 | 10/19/2011 | < 41 | < 4.1 | < 4.1 | 1,300 | < 4.1 | < 4.1 | 910 | < 4.1 | 28 | < 8.3 | < 4.1 | < 4.1 | < 4.1 | < 8.3 | < 4.1 | < 4.1 | < 4.1 | < 4.1 | ND |
| | SUMP-EXS-2-8 | 8.0 | 10/19/2011 | < 49 | < 4.9 | < 4.9 | **1,600** | < 4.9 | < 4.9 | **2,700** | < 4.9 | 44 | < 9.9 | < 4.9 | < 4.9 | < 4.9 | < 9.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | ND |
| | SUMP-EXS-3-8 | 8.0 | 10/20/2011 | < 42 | < 4.2 | < 4.2 | 18 | < 4.2 | < 4.2 | **1,500** | < 4.2 | 18 | < 8.4 | < 4.2 | < 4.2 | < 4.2 | < 8.4 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | ND |
| | SUMP-EXS-4-8 | 8.0 | 10/20/2011 | < 46 | < 4.6 | < 4.6 | 1,400 | < 4.6 | < 4.6 | **2,500** | < 4.6 | 48 | < 9.3 | < 4.6 | < 4.6 | < 4.6 | < 9.3 | < 4.6 | < 4.6 | < 4.6 | < 4.6 | ND |
| | SUMP-EXS-8-8 [5] | 8.0 | 10/26/2011 | < 500 | < 30 | < 50 | 1,100 | < 50 | < 50 | **3,300** | < 50 | < 50 | 150 | < 30 | NA | < 50 | < 50 | < 250 | < 50 | < 50 | < 50 | ND |
| North of Sump Excavation | SB-14-4.0 | 4.0 | 6/7/2011 | 68 | 10 | < 4.4 | 150 | < 4.4 | < 4.4 | 140 | < 4.4 | < 4.4 | < 8.8 | < 4.4 | < 4.4 | < 4.4 | < 8.8 | < 4.4 | < 4.4 | < 4.4 | < 4.4 | ND |
| | SB-14-8.0 | 8.0 | 6/7/2011 | < 40 | < 4.0 | < 4.0 | 220 | < 4.0 | < 4.0 | 190 | < 4.0 | 5.3 | < 7.9 | < 4.0 | < 4.0 | < 4.0 | < 7.9 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | ND |
| | SB-14-11.0 | 11.0 | 6/7/2011 | < 39 | < 3.9 | < 3.9 | 150 | < 3.9 | < 3.9 | 100 | < 3.9 | < 3.9 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 7.9 | < 3.9 | < 3.9 | < 3.9 | < 3.9 | ND |
| | SB-14-12.0 | 12.0 | 6/7/2011 | < 41 | < 4.1 | < 4.1 | 120 | < 4.1 | < 4.1 | 65 | < 4.1 | < 4.1 | < 8.2 | < 4.1 | < 4.1 | < 4.1 | < 8.2 | < 4.1 | < 4.1 | < 4.1 | < 4.1 | ND |
| East of Sump Excavation | SB-18-4.0 | 4.0 | 6/7/2011 | < 59 | < 5.9 | < 5.9 | < 5.9 | < 5.9 | < 5.9 | < 5.9 | < 5.9 | < 5.9 | < 12 | < 5.9 | < 5.9 | < 5.9 | < 12 | < 5.9 | < 5.9 | < 5.9 | < 5.9 | ND |
| | SB-18-8.0 | 8.0 | 6/7/2011 | < 40 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | < 8.0 | < 4.0 | < 4.0 | < 4.0 | < 8.0 | < 4.0 | < 4.0 | < 4.0 | < 4.0 | ND |
| | SB-18-12.0 | 12.0 | 6/7/2011 | < 42 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 8.4 | < 4.2 | < 4.2 | < 4.2 | < 8.4 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | ND |
| West of Sump Excavation [4] | SB-22-4.0 | 4.0 | 6/8/2011 | < 49 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | < 9.9 | < 4.9 | < 4.9 | < 4.9 | < 9.9 | < 4.9 | < 4.9 | < 4.9 | < 4.9 | ND |
| | SB-22-9.0 | 9.0 | 6/8/2011 | < 38 | < 3.8 | < 3.8 | 200 | < 3.8 | < 3.8 | 69 | < 3.8 | < 3.8 | < 7.7 | < 3.8 | < 3.8 | < 3.8 | < 7.7 | < 3.8 | < 3.8 | < 3.8 | < 3.8 | ND |
| | SB-22-12.0 | 12.0 | 6/8/2011 | < 63 | < 6.3 | < 6.3 | 310 | < 6.3 | < 6.3 | 110 | < 6.3 | < 6.3 | < 13 | < 6.3 | < 6.3 | < 6.3 | < 13 | < 6.3 | < 6.3 | < 6.3 | < 6.3 | ND |

**TABLE 3**

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN SOIL [1]**
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per kilogram (µg/kg)

| Location | Sample ID | Depth (feet bgs) | Date | Acetone | Benzene | Bromo-benzene | Chloro-benzene | Ethyl-benzene | 2-Chloro-toluene | 1,2-Dichloro-benzene | 1,3-Dichloro-benzene | 1,4-Dichloro-benzene | Total Xylenes | Trichloro-ethene | n-Butyl-benzene | sec-Butyl-benzene | Naph-thalene | 1,2,4-Trichloro-benzene | 1,2,4-Trimethyl-benzene | 1,3,5-Trimethyl-benzene | cis-1,2-Dichloro-ethene | All Other VOCs Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| South of Sump Excavation [4] | B8-4.0 | 4.0 | 2/24/2009 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | ND |
| Southeast of Sump Excavation | SB-19-4.0 | 4.0 | 6/7/2011 | < 42 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | < 8.4 | < 4.2 | < 4.2 | < 4.2 | < 8.4 | < 4.2 | < 4.2 | < 4.2 | < 4.2 | ND |
| | SB-19-8.0 | 8.0 | 6/9/2011 | < 43 | < 4.3 | < 4.3 | 110 | < 4.3 | < 4.3 | 98 | < 4.3 | < 4.3 | < 8.7 | < 4.3 | < 4.3 | < 4.3 | < 8.7 | < 4.3 | < 4.3 | < 4.3 | < 4.3 | ND |
| | SB-19-11.0 | 11.0 | 6/9/2011 | < 53 | < 5.3 | < 5.3 | 29 | < 5.3 | < 5.3 | 12 | < 5.3 | < 5.3 | < 11 | < 5.3 | < 5.3 | < 5.3 | < 11 | < 5.3 | < 5.3 | < 5.3 | < 5.3 | ND |
| | SB-19-13.0 | 13.0 | 6/9/2011 | < 58 | < 5.8 | < 5.8 | 21 | < 5.8 | < 5.8 | < 5.8 | < 5.8 | < 5.8 | < 12 | < 5.8 | < 5.8 | < 5.8 | < 12 | < 5.8 | < 5.8 | < 5.8 | < 5.8 | ND |
| Environmental Screening Level (residential land use) [6] | | | | 500 | 44 | NL | 1,500 | 2,300 | NL | 1,100 | 7,400 | 590 | 2,300 | 460 | NL | NL | 1,300 | 1,500 | NL | NL | 190 | -- |

<u>Notes</u>

1. Except as noted, samples were collected by AMEC Geomatrix, Inc., and analyzed by TestAmerica Laboratories, Inc., of Pleasanton, California, using U.S. EPA Method 8260B, or by Friedman & Bruya, Inc., of Seattle, Washington, using U.S. EPA Method 8260C. Only detected constituents are shown on this table; see associated laboratory analytical reports for individual analytes and reporting limits.
2. Soil in the vicinity of this sample location was removed during excavation activities and the data is shown with a gray background.
3. Results shown in **bold** exceed their respective Environmental Screening Levels.
4. Samples at this location were collected by Basics Environmental or Ninyo & Moore. Analytical methods are presented in their reports.
5. Sample at this location was analyzed by Friedman & Bruya, Inc., of Seattle, Washington.
6. California Regional Water Quality Control Board, San Francisco Region, 2007, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table A-1. Shallow Soil Screening Level (≤ 3 m bgs), Residential Land Use (groundwater is a current or potential drinking water resource), November, revised May 2008.

<u>Abbreviations</u>

-- = not applicable
< = not detected at or above the laboratory reporting limit shown
bgs = below ground surface
J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
NA = not analyzed
NL = not listed
ND = not detected at or above the respective laboratory reporting limits
U.S. EPA = U.S. Environmental Protection Agency
VOCs = volatile organic compounds

**TABLE 4**

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER [1]**

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per liter (µg/L)

| Location | Sample ID | Date | Total Petroleum Hydrocarbons | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | GRO | DRO (unfiltered) | DRO (filtered)[2] | MORO (unfiltered) | MORO (filtered)[2] | TPHho (unfiltered) | TPHho (filtered)[2] | TPHss (filtered) |
| **F. E. Pit** | | | | | | | | | | |
| Beneath F.E. Pit | SB-25 | 6/9/2011 | NA | NA | NA | NA | NA | < 520 [3] | < 520 [3] | NA |
| Southeast of F.E. Pit | SB-31 | 7/26/2011 | < 50 | < 52 | < 51 | 60 J | < 100 | < 520 [3] | < 510 [3] | NA |
| North of F.E. Pit[4] | NM-B-5 | 12/16/2010 | < 50 | < 50 | NA | < 50 | NA | NA | NA | NA |
| North Wall of F.E. Pit Excavation[4] | B7 | 2/24/2009 | < 50 | NA | NA | NA | NA | NA | NA | < 50 |
| Southeast of F.E. Pit[4] | NM-B-13 | 8/10/2011 | NA | NA | NA | NA | NA | < 200 | NA | NA |
| South of F.E. Pit[4] | B9 | 2/25/2009 | < 50 | NA | NA | NA | NA | NA | NA | < 50 |
| **Sump** | | | | | | | | | | |
| Groundwater within Sump Excavation | SUMP-EXB-WATER-1-16 | 10/26/2011 | < 25,000 | NA | **2,200 J[5,6]** | NA | < 120 | NA | NA | NA |
| | SUMP-EXB-WATER-1-16 [7] | 10/26/2011 | **3,900 J[6]** | NA | **5,200 J[6]** | NA | < 50 | NA | NA | NA |
| | SUMP-EXB-WATER-2-16 | 10/28/2011 | < 100,000 | NA | **6,200 J[6]** | NA | < 110 | NA | NA | NA |
| | SUMP-EXB-WATER-2-16 [7] | 10/28/2011 | **4,900 J[6]** | NA | **5,600 J[6]** | NA | 64 J | NA | NA | NA |
| Within Sump Excavation | SB-03 | 9/28/2010 | < 50 | NA | NA | NA | NA | NA | NA | NA |
| Within Sump Excavation[4] | NM-B-6 | 12/16/2010 | **1,100** | NA | NA | NA | NA | NA | NA | NA |
| East of Sump Excavation | SB-18 | 6/8/2011 | NA | NA | NA | NA | NA | NA | NA | NA |
| South of Sump Excavation[4] | B8 | 2/24/2009 | **550** | NA | NA | NA | NA | NA | NA | **170** |
| East of Sump Excavation[4] | NM-B-7 | 8/12/2011 | NA | NA | NA | NA | NA | < 200 | NA | NA |
| East of Sump Excavation[4] | NM-B-9 | 8/12/2011 | NA | NA | NA | NA | NA | < 200 | NA | NA |
| Southeast of Sump Excavation | SB-13-GW-2 | 5/16/2011 | < 50 | < 120 | NA | < 250 | NA | NA | NA | NA |
| | SB-13-GW-3 | 5/16/2011 | < 50 | < 50 | < 50 | < 99 | < 99 | NA | NA | NA |
| Southeast of Sump Excavation[4] | B10 | 2/24/2009 | < 50 | NA | NA | NA | NA | NA | NA | < 50 |
| Environmental Screening Level (groundwater is a potential or current drinking water resource) [8] | | | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

**TABLE 4**

**SUMMARY OF TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER [1]**

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Notes

1. Samples were collected by AMEC Geomatrix, Inc., and analyzed by TestAmerica Laboratories, Inc., of Pleasanton, California, or Friedman & Bruya, Inc., of Seattle, Washington. Samples were analyzed for GRO by TestAmerica using U.S. EPA Method 8260B, or by Friedman & Bruya using U.S. EPA Method 8015M; and for DRO and MORO using U.S. EPA Method 8015B or 8015M, following a silica gel preparation procedure in accordance with U.S. EPA Method 3630C.
2. Extra sample volume for samples for DRO and MORO analyses was filtered at the laboratory prior to analysis using a 0.7-micron glass fiber filter.
3. The laboratory reporting limits for all TPHho analyses (i.e., from 510 to 520 µg/L) exceed the ESL of 100 µg/L. However, the method detection limit for TPHho analyses was 38 µg/L; TPHho was not detected at or above the method detection limit.
4. Samples at this location were collected by Basics Environemtal or Ninyo & Moore. Analytical methods are presented in their reports.
5. Results shown in **bold** exceed their respective Environmental Screening Levels.
6. AMEC requested that the laboratory review the chromatograms of samples that exceeded environmental screening levels to determine if they matched the GRO, DRO, and MORO standard chromatograms used for quantitation. The laboratory indicated that they did not match the standards; therefore, the concentrations were qualified with "J."
7. A duplicate sample was collected at this location and was analyzed by Friedman & Bruya of Seattle, Washington.
8. California Regional Water Quality Control Board, San Francisco Region, 2007, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water source), November, revised May 2008.

Abbreviations

< = not detected at or above the laboratory reporting limit shown
DRO = diesel range organics
ESL = Environmental Screening Level
GRO = gasoline range organics
J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
MORO = motor oil range organics
NA = not analyzed
TPHho = total petroleum hydrocarbons quantified as hydraulic oil
TPHss = total petroleum hydrocarbons quantified as Stoddard solvent
U.S. EPA = U.S. Environmental Protection Agency

**TABLE 5**

**SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER [1]**

Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Concentrations reported in micrograms per liter (µg/L)

| Location | Sample ID | Date | Acetone | Benzene | Chloro-benzene | 1,2-Dichloro-benzene | 1,3-Dichloro-benzene | 1,4-Dichloro-benzene | 1,1-DCE | cis-1,2-DCE | MTBE | Naph-thalene | PCE | Toluene | TCE | 1,2,4-Trichloro-benzene | 1,2,4-Trimethyl-benzene | 1,3,5-Trimethyl-benzene | n-Propyl-benzene | Total Xylenes | All Other VOCs Analyzed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **F. E. Pit** | | | | | | | | | | | | | | | | | | | | | |
| Beneath F.E. Pit | SB-25 | 6/9/2011 | < 50 UJ | < 0.50 | < 0.50 | 6.6 | 0.81 | 3.7 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | 0.62 | < 0.50 | < 0.50 | < 1.0 | < 0.5 | < 0.50 | < 1.0 | < 1.0 | ND |
| Southeast of F.E. Pit | SB-31 | 7/26/2011 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | < 0.50 | < 1.0 | < 1.0 | ND |
| North of F.E. Pit[2] | NM-B-5 | 12/16/2010 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.5 | 1.5 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | ND |
| North of F.E. Pit[2] | B7 | 2/24/2009 | < 10 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | ND |
| Southeast of F.E. Pit[2] | NM-B-13 | 8/10/2011 | NA | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | NA | < 0.5 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | ND |
| South of F.E. Pit[2] | B9 | 2/25/2009 | < 10 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 0.94 | < 0.5 | < 0.5 | 0.84 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | ND |
| **Sump** | | | | | | | | | | | | | | | | | | | | | |
| Groundwater within Sump Excavation | SUMP-EXB-WATER-1-16 | 10/26/2011 | < 500 | **8.2** [3] | **2,800** | **18,000** | 7.6 | **250** | < 5.0 | < 5.0 | < 5.0 | < 10 | < 5.0 | < 5.0 | < 5.0 | **12** | 24 | 8.3 | < 10 | < 10 | ND |
| | SUMP-EXB-WATER-1-16 [4] | 10/26/2011 | 10 | **7.0** | **2,400** | **21,000 J** | 6.8 | **240** | < 1.0 | < 1.0 | < 1.0 | 1.7 | 3.5 | < 1.0 | < 1.0 | **12** | 23 | 8.0 | 3.1 | < 2 | ND [5] |
| | SUMP-EXB-WATER-2-16 | 10/28/2011 | < 50 | **6.3** | **3,000** | **21,000** | 4.5 | **130** | < 0.50 | < 0.50 | < 0.50 | <1.0 | **6.5** | 0.58 | < 0.50 | **6.6** | 8.3 | 3.7 | 1.5 | 1.8 | ND |
| | SUMP-EXB-WATER-2-16 [4] | 10/28/2011 | 10 | **7.1** | **2,100** | **11,000** | 4.0 | **130** | < 1.0 | < 1.0 | < 1.0 | < 1.0 | **8.9** | < 1.0 | < 1.0 | **5.1** | 9.1 | 3.3 | 1.3 | < 2 | ND |
| Within Sump Excavation | SB-03 | 9/28/2010 | < 50 | **1.5** | **85** | **42** | < 0.50 | 1.3 | < 0.50 | 1.3 | < 0.50 | < 1.0 | 3.2 | < 0.50 | 0.96 | < 1.0 | < 0.5 | < 0.50 | 0 | < 1.0 | ND |
| Within Sump Excavation[2] | NM-B-6 | 12/16/2010 | NA | **12** | **620** | **350** | < 1.0 | **11** | < 1.0 | 2.2 | < 1.0 | < 1.0 | 3.5 | < 1.0 | 1.4 | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 2.0 | ND |
| East of Sump Excavation | SB-18 | 6/8/2011 | < 50 UJ | **2.1** | **320** | **650** | < 0.5 | **15** | < 0.5 | 1.2 | < 0.5 | < 1.0 | < 0.5 | < 0.5 | < 0.5 | < 1.0 | < 0.5 | < 0.5 | < 1.0 | < 1.0 | ND |
| South of Sump Excavation | B8 | 2/24/2009 | < 100 | **2.9** | **370** | **140** | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | **9.6** | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | ND |
| East of Sump Excavation[2] | NM-B-7 | 8/12/2011 | NA | < 0.50 | < 0.50 | 1.1 | < 0.50 | < 0.50 | < 0.50 | 0.90 | NA | < 0.5 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | ND |
| East of Sump Excavation[2] | NM-B-9 | 8/12/2011 | NA | < 0.50 | < 0.50 | 0.92 | < 0.50 | < 0.50 | < 0.50 | 0.97 | NA | < 0.5 | 0.87 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | ND |
| Southeast of Sump Excavation | SB-13-GW-2 | 5/16/2011 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | < 0.50 | < 1.0 | < 1.0 | ND |
| | SB-13-GW-3 | 5/16/2011 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | < 0.50 | < 0.50 | < 1.0 | < 0.50 | < 0.50 | < 1.0 | < 1.0 | ND |
| Southeast of Sump Excavation[2] | B10 | 2/24/2009 | < 10 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | 1.9 | 0.58 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | ND |
| Environmental Screening Level (groundwater is a potential or current drinking water resource) [6] | | | 1,500 | 1.0 | 25 | 10 | 65 | 5.0 | 5.0 | 6.0 | 5.0 | 17 | 5.0 | 40 | 5.0 | 5.0 | NL | NL | NL | 20 | -- |

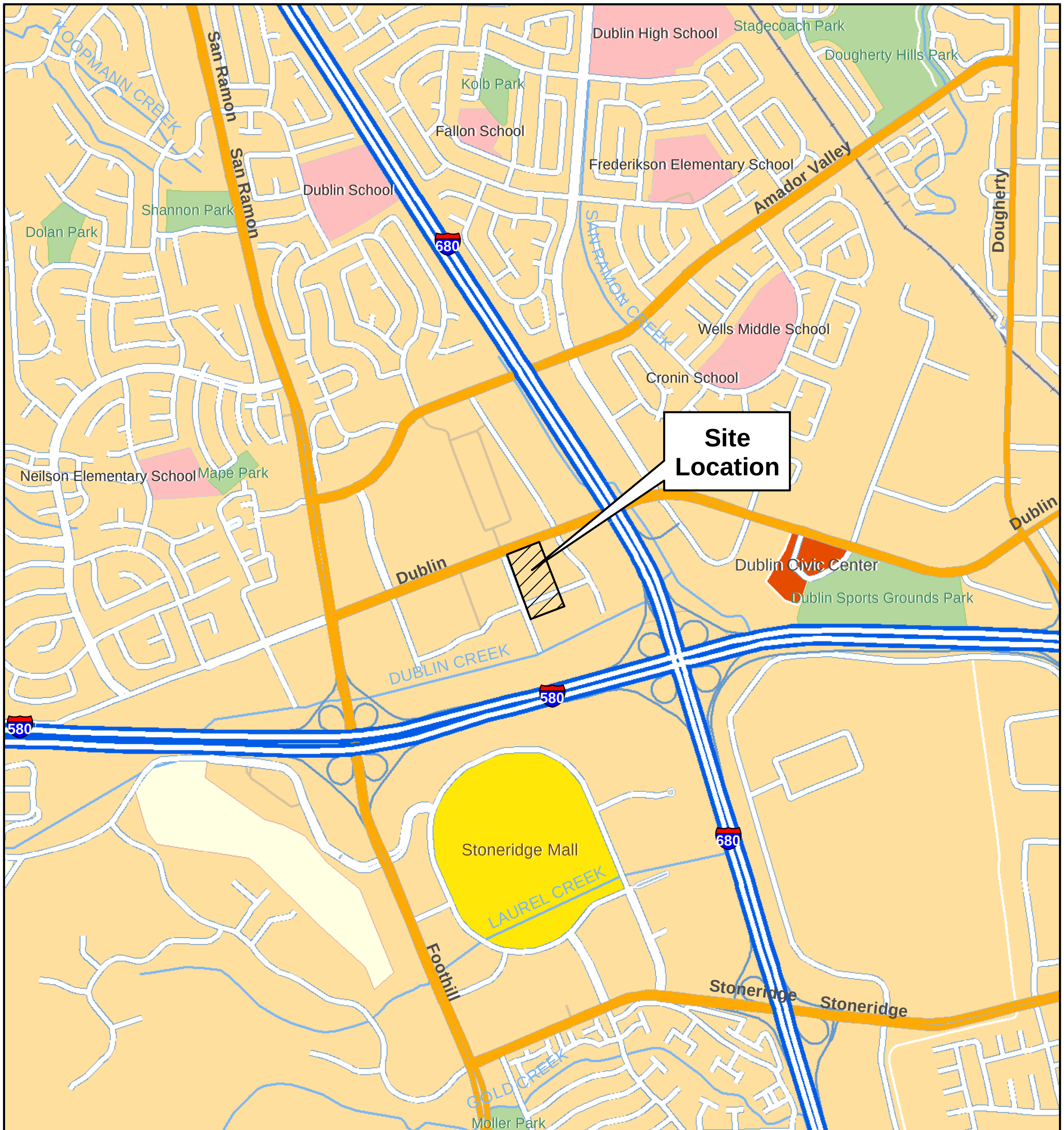
Notes

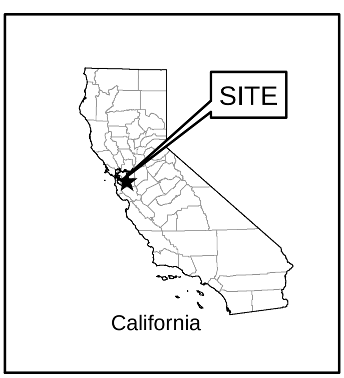
1. Except as noted, samples were collected by AMEC Geomatrix, Inc., and analyzed by TestAmerica Laboratories, Inc., of Pleasanton, California, using U.S. EPA Method 8260B, or by Friedman & Bruya, Inc., of Seattle, Washington, using U.S. EPA Method 8260C. Only detected constituents are shown on this table; see associated laboratory analytical reports for individual analytes and reporting limits.
2. Samples at this location were collected by Basics Environemtal or Ninyo & Moore. Analytical methods are presented in their reports.
3. Results shown in **bold** exceed their respective Environmental Screening Levels.
4. A duplicate sample was collected at this location and was analyzed by Friedman & Bruya of Seattle, Washington.
5. The following VOCs were also detected in sample SUMP-EXB-WATER-1-16: p-Isopropyltoluene at 2.3 µg/L, sec-Butylbenzene at 1.9 µg/L, and 1,2,3- Trichlorobenzene at 1.5 µg/L.
6. California Regional Water Quality Control Board, San Francisco Region, 2007, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water source), November, revised May 2008.

Abbreviations

< = not detected at or above the laboratory reporting limit shown
-- = not applicable
DCE = dichloroethene
J = the analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected at or above the respective laboratory reporting limits
PCE = tetrachloroethene
TCE = trichloroethene
U.S. EPA = U.S. Environmental Protection Agency
UJ = the analyte was not detected at a level greater than or equal to the quantitation limit shown; the quantitation limit is approximate and may be inaccurate or imprecise.
VOCs= volatile organic compounds

# FIGURES




0 2,000 4,000 Feet

N

SITE LOCATION MAP
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 08/31/2011 | Project No. OD10160070 |
|---|---|---|
| amec | | Figure 1 |

S:\OD10\160070\task_00002\11_0714_IR_fig_01.mxd

S:\OD10\160070\task_00005\11_1108_r_fig_02.mxd


Explanation

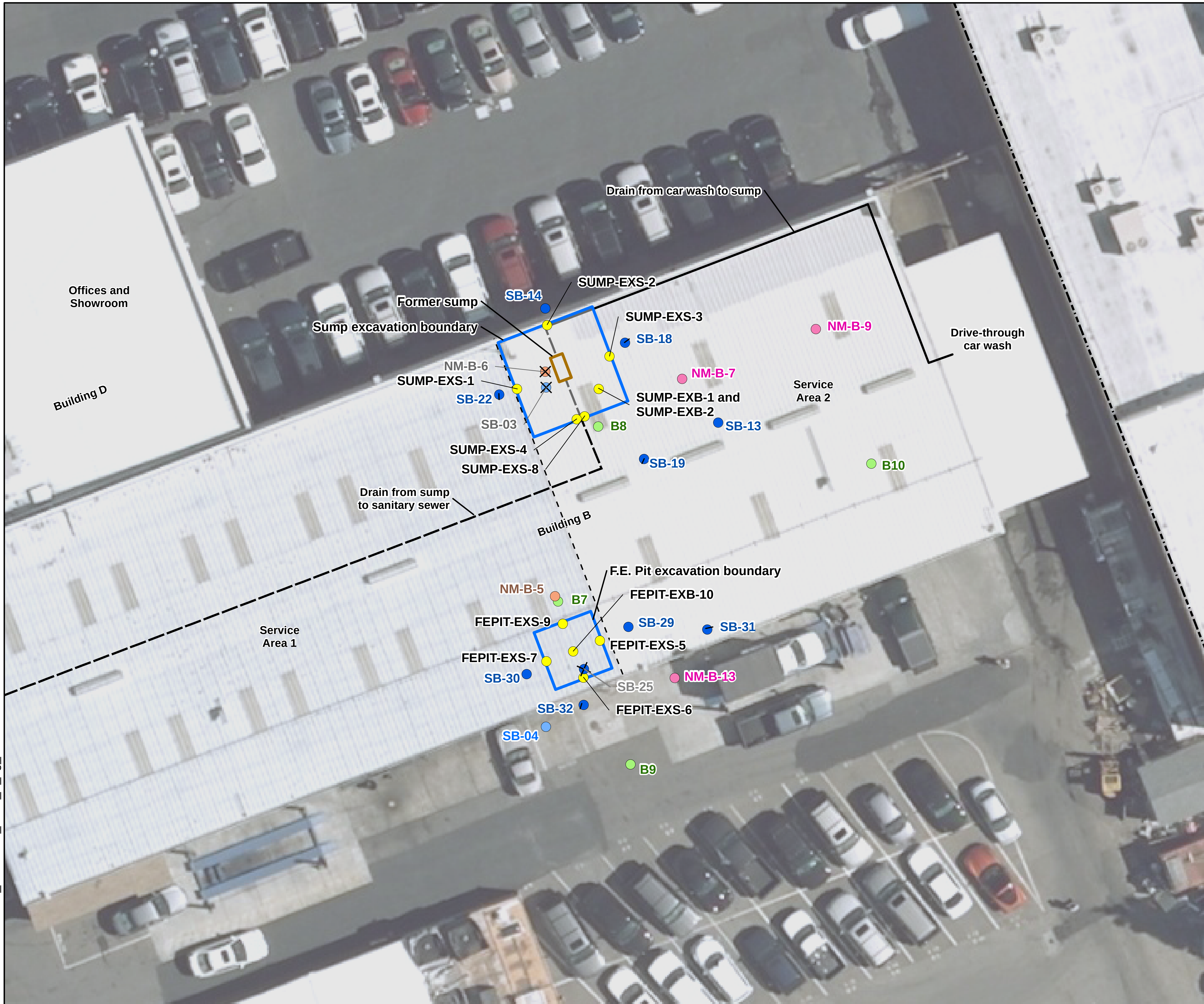
- Approximate property boundary
- Approximate excavation boundary
- Interior building wall
- Approximate location of above-ground drain line
- Approximate location of below-ground drain line

Abbreviations
F.E. Pit = Front-end alignment pit

0 30 60 Feet

SITE PLAN
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 12/21/2011 | Project No. | OD10160070 |
|---|---|---|---|
| amec | | Figure | 2 |




Explanation

AMEC soil and/or grab groundwater sample location (October 19-28, 2011)

AMEC soil and/or grab groundwater sample location (May 16-July 26, 2011)

AMEC soil and/or grab groundwater sample location (September 27-29, 2010)

Ninyo & Moore grab groundwater sample location (August 10-12, 2011)

Ninyo & Moore soil and/or grab groundwater sample location (December 16, 2010)

Basics Environmental soil and/or grab groundwater sample location (February 24-25, 2009)

Sample collected from soil that was subsequently removed during excavation

Approximate excavation boundary

Interior building wall

Approximate location of above-ground drain line

Approximate location of below-ground drain line

Property line

Abbreviations
F.E. Pit = Front-end alignment pit

Note:
Additional samples have been collected in and near Building B in association with other investigations at the site. These samples are not related to the excavations and are not shown on this figure.

N

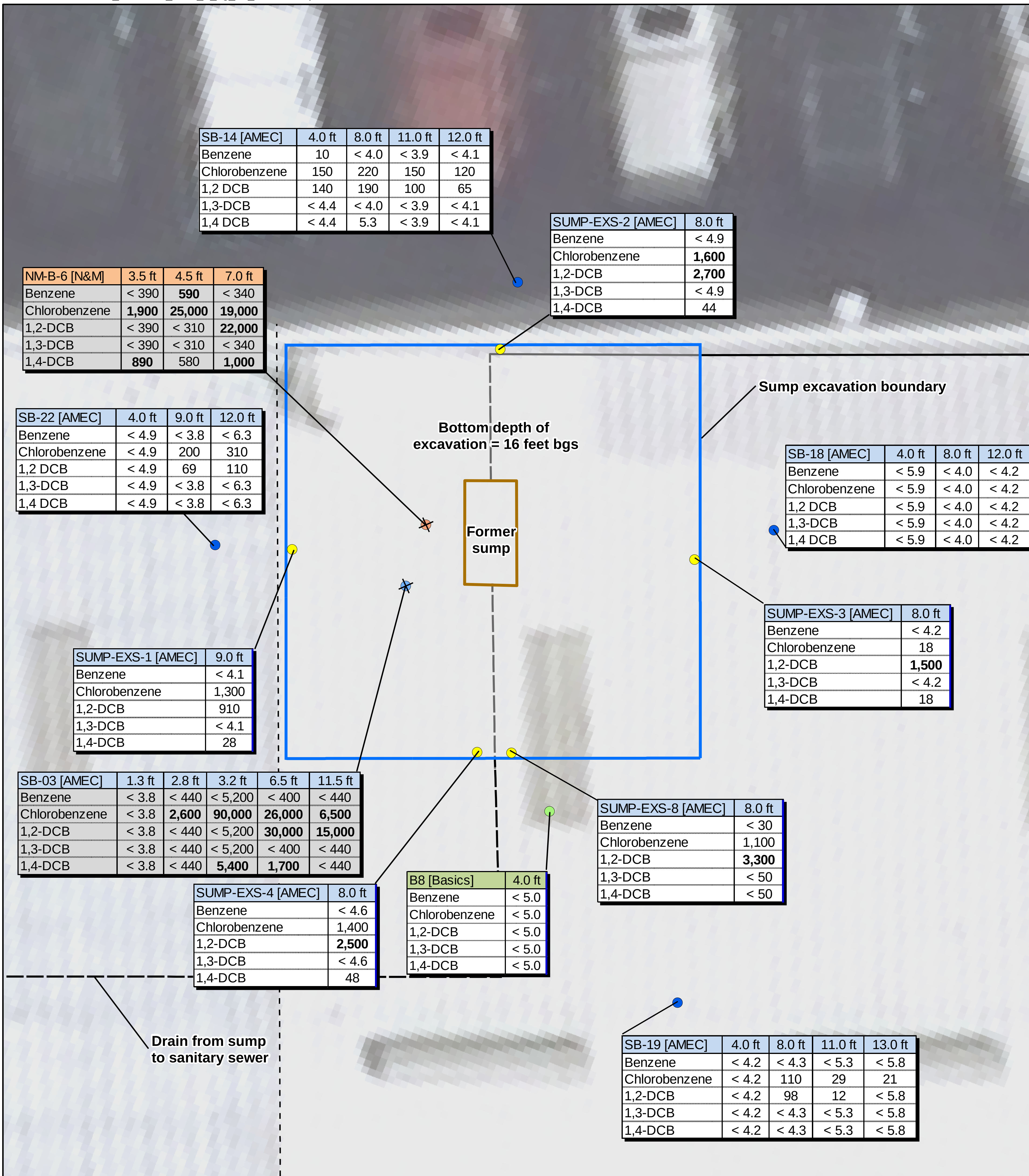
0 20 40 Feet

SUMP AND FE PIT EXCAVATION AREAS
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 12/21/2011 | Project No. OD10160070 |
|---|---|---|
| amec | Figure | 3 |

S:\OD10\160070\task_00005\11_1108_r_fig_03.mxd

S:\OD10\160070\task_00005\11_1108_r_fig_04_VOCsSumpExcavation.mxd




| SB-14 [AMEC] | 4.0 ft | 8.0 ft | 11.0 ft | 12.0 ft |
|---|---|---|---|---|
| Benzene | 10 | < 4.0 | < 3.9 | < 4.1 |
| Chlorobenzene | 150 | 220 | 150 | 120 |
| 1,2 DCB | 140 | 190 | 100 | 65 |
| 1,3-DCB | < 4.4 | < 4.0 | < 3.9 | < 4.1 |
| 1,4 DCB | < 4.4 | 5.3 | < 3.9 | < 4.1 |

| SUMP-EXS-2 [AMEC] | 8.0 ft |
|---|---|
| Benzene | < 4.9 |
| Chlorobenzene | **1,600** |
| 1,2-DCB | **2,700** |
| 1,3-DCB | < 4.9 |
| 1,4-DCB | 44 |

| NM-B-6 [N&M] | 3.5 ft | 4.5 ft | 7.0 ft |
|---|---|---|---|
| Benzene | < 390 | **590** | < 340 |
| Chlorobenzene | **1,900** | **25,000** | **19,000** |
| 1,2-DCB | < 390 | < 310 | **22,000** |
| 1,3-DCB | < 390 | < 310 | < 340 |
| 1,4-DCB | **890** | 580 | **1,000** |

| SB-22 [AMEC] | 4.0 ft | 9.0 ft | 12.0 ft |
|---|---|---|---|
| Benzene | < 4.9 | < 3.8 | < 6.3 |
| Chlorobenzene | < 4.9 | 200 | 310 |
| 1,2 DCB | < 4.9 | 69 | 110 |
| 1,3-DCB | < 4.9 | < 3.8 | < 6.3 |
| 1,4 DCB | < 4.9 | < 3.8 | < 6.3 |

| SB-18 [AMEC] | 4.0 ft | 8.0 ft | 12.0 ft |
|---|---|---|---|
| Benzene | < 5.9 | < 4.0 | < 4.2 |
| Chlorobenzene | < 5.9 | < 4.0 | < 4.2 |
| 1,2 DCB | < 5.9 | < 4.0 | < 4.2 |
| 1,3-DCB | < 5.9 | < 4.0 | < 4.2 |
| 1,4 DCB | < 5.9 | < 4.0 | < 4.2 |

| SUMP-EXS-3 [AMEC] | 8.0 ft |
|---|---|
| Benzene | < 4.2 |
| Chlorobenzene | 18 |
| 1,2-DCB | **1,500** |
| 1,3-DCB | < 4.2 |
| 1,4-DCB | 18 |

| SUMP-EXS-1 [AMEC] | 9.0 ft |
|---|---|
| Benzene | < 4.1 |
| Chlorobenzene | 1,300 |
| 1,2-DCB | 910 |
| 1,3-DCB | < 4.1 |
| 1,4-DCB | 28 |

| SB-03 [AMEC] | 1.3 ft | 2.8 ft | 3.2 ft | 6.5 ft | 11.5 ft |
|---|---|---|---|---|---|
| Benzene | < 3.8 | < 440 | < 5,200 | < 400 | < 440 |
| Chlorobenzene | < 3.8 | **2,600** | **90,000** | **26,000** | **6,500** |
| 1,2-DCB | < 3.8 | < 440 | < 5,200 | **30,000** | **15,000** |
| 1,3-DCB | < 3.8 | < 440 | < 5,200 | < 400 | < 440 |
| 1,4-DCB | < 3.8 | < 440 | **5,400** | **1,700** | < 440 |

| SUMP-EXS-8 [AMEC] | 8.0 ft |
|---|---|
| Benzene | < 30 |
| Chlorobenzene | 1,100 |
| 1,2-DCB | **3,300** |
| 1,3-DCB | < 50 |
| 1,4-DCB | < 50 |

| SUMP-EXS-4 [AMEC] | 8.0 ft |
|---|---|
| Benzene | < 4.6 |
| Chlorobenzene | 1,400 |
| 1,2-DCB | **2,500** |
| 1,3-DCB | < 4.6 |
| 1,4-DCB | 48 |

| B8 [Basics] | 4.0 ft |
|---|---|
| Benzene | < 5.0 |
| Chlorobenzene | < 5.0 |
| 1,2-DCB | < 5.0 |
| 1,3-DCB | < 5.0 |
| 1,4-DCB | < 5.0 |

| SB-19 [AMEC] | 4.0 ft | 8.0 ft | 11.0 ft | 13.0 ft |
|---|---|---|---|---|
| Benzene | < 4.2 | < 4.3 | < 5.3 | < 5.8 |
| Chlorobenzene | < 4.2 | 110 | 29 | 21 |
| 1,2-DCB | < 4.2 | 98 | 12 | < 5.8 |
| 1,3-DCB | < 4.2 | < 4.3 | < 5.3 | < 5.8 |
| 1,4-DCB | < 4.2 | < 4.3 | < 5.3 | < 5.8 |

Explanation

- AMEC soil and/or grab groundwater sample location (October 19-28, 2011)
- AMEC soil and/or grab groundwater sample location (May 16-July 26, 2011)
- AMEC soil and/or grab groundwater sample location (September 27-29, 2010)
- Ninyo & Moore soil and/or grab groundwater sample location (December 16, 2010)
- Basics Environmental soil and/or grab groundwater sample location (February 24-25, 2009)
- Sample collected from soil that was subsequently removed during excavation
- Approximate excavation boundary
- Interior building wall
- Approximate location of above-ground drain line
- Approximate location of below-ground drain line

Sampler

Sample ID – Sample depth (bgs)

Constituent – Concentration (µg/kg)

| B8 [Basics] | 4.0 ft |
|---|---|
| Benzene | < 5.0 |
| Chlorobenzene | < 5.0 |
| 1,2-DCB | < 5.0 |
| 1,3-DCB | < 5.0 |
| 1,4-DCB | < 5.0 |

| Residential ESLs | |
|---|---|
| Benzene | 44 |
| Chlorobenzene | 1,500 |
| 1,2-DCB | 1,100 |
| 1,3-DCB | 7,400 |
| 1,4-DCB | 590 |

Notes:
1. Analytes shown on this figure were detected in at least one soil sample above their ESLs. Results shown in **bold** exceed their respective ESLs. Although gasoline range organics (GRO) were detected in samples SB-03-3.2 and NM-B-6 above the GRO ESL, the GRO values reported are likely due to the presence of non-gasoline VOCs in the samples; therefore, they are not reported here.
2. Shading indicates that the sample was collected from soil that was subsequently removed during excavation.

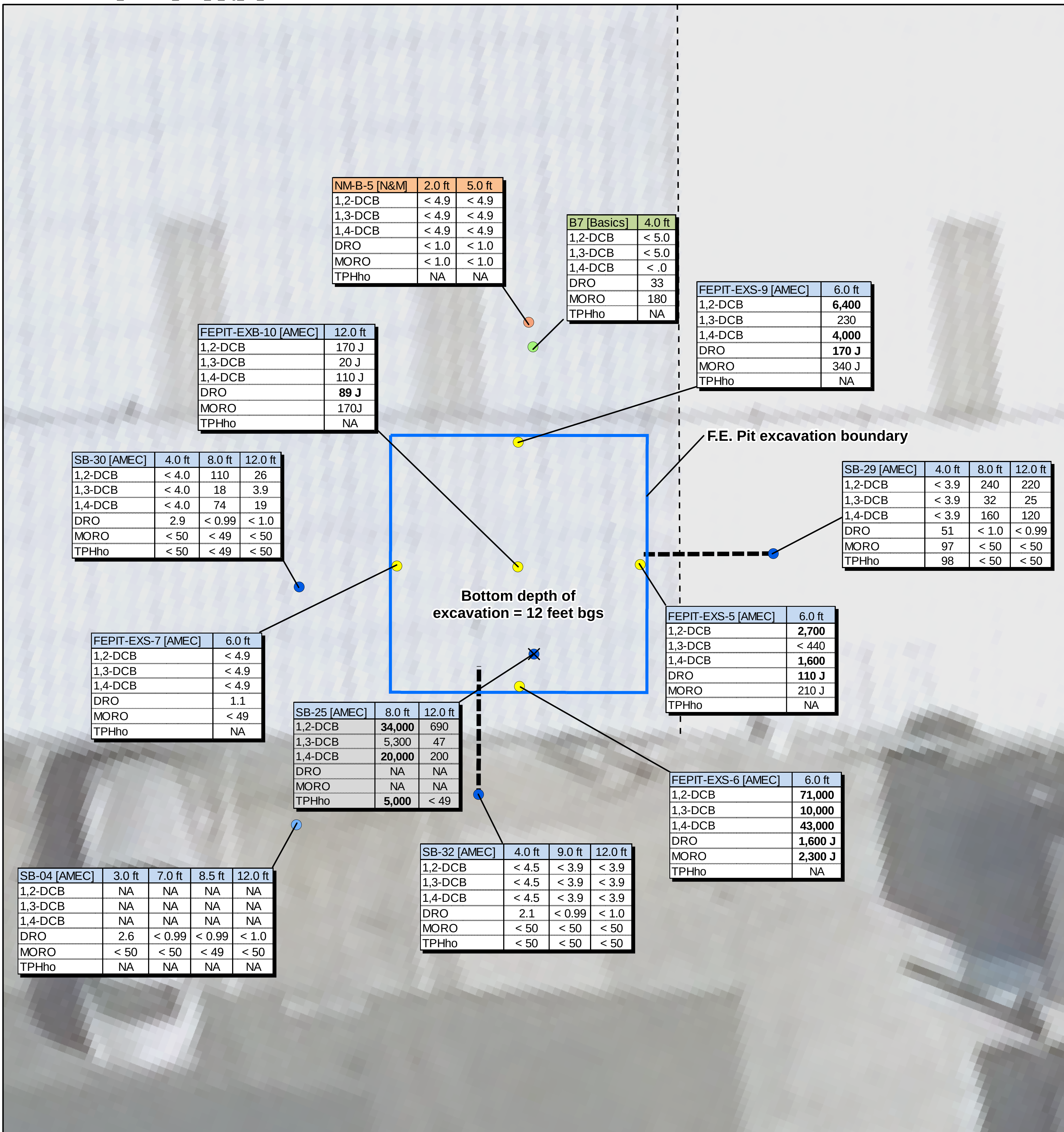
Abbreviations:
1,2-DCB = 1,2-dichlorobenzene
1,3-DCB = 1,3-dichlorobenzene
1,4-DCB = 1,4-dichlorobenzene
Basics = Basics Environmental, Inc.
bgs = below ground surface
ESLs = Environmental Screening Levels
F.E. Pit = Front-end alignment pit
µg/kg = micrograms per kilogram
N&M = Ninyo & Moore
< = not detected above the laboratory reporting limit shown
VOCs = volatile organic compounds

0 2.5 5 Feet

SELECTED VOCs IN SOIL, SUMP AREA
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 12/21/2011 | Project No. | OD10160070 |
|---|---|---|---|
| amec | | Figure | 4 |

S:\OD10\160070\task_00005\11_1108_r_fig_05_VOCsFePit.mxd




| NM-B-5 [N&M] | 2.0 ft | 5.0 ft |
|---|---|---|
| 1,2-DCB | < 4.9 | < 4.9 |
| 1,3-DCB | < 4.9 | < 4.9 |
| 1,4-DCB | < 4.9 | < 4.9 |
| DRO | < 1.0 | < 1.0 |
| MORO | < 1.0 | < 1.0 |
| TPHho | NA | NA |

| B7 [Basics] | 4.0 ft |
|---|---|
| 1,2-DCB | < 5.0 |
| 1,3-DCB | < 5.0 |
| 1,4-DCB | < .0 |
| DRO | 33 |
| MORO | 180 |
| TPHho | NA |

| FEPIT-EXS-9 [AMEC] | 6.0 ft |
|---|---|
| 1,2-DCB | **6,400** |
| 1,3-DCB | 230 |
| 1,4-DCB | **4,000** |
| DRO | **170 J** |
| MORO | 340 J |
| TPHho | NA |

| FEPIT-EXB-10 [AMEC] | 12.0 ft |
|---|---|
| 1,2-DCB | 170 J |
| 1,3-DCB | 20 J |
| 1,4-DCB | 110 J |
| DRO | **89 J** |
| MORO | 170J |
| TPHho | NA |

| SB-30 [AMEC] | 4.0 ft | 8.0 ft | 12.0 ft |
|---|---|---|---|
| 1,2-DCB | < 4.0 | 110 | 26 |
| 1,3-DCB | < 4.0 | 18 | 3.9 |
| 1,4-DCB | < 4.0 | 74 | 19 |
| DRO | 2.9 | < 0.99 | < 1.0 |
| MORO | < 50 | < 49 | < 50 |
| TPHho | < 50 | < 49 | < 50 |

| SB-29 [AMEC] | 4.0 ft | 8.0 ft | 12.0 ft |
|---|---|---|---|
| 1,2-DCB | < 3.9 | 240 | 220 |
| 1,3-DCB | < 3.9 | 32 | 25 |
| 1,4-DCB | < 3.9 | 160 | 120 |
| DRO | 51 | < 1.0 | < 0.99 |
| MORO | 97 | < 50 | < 50 |
| TPHho | 98 | < 50 | < 50 |

| FEPIT-EXS-5 [AMEC] | 6.0 ft |
|---|---|
| 1,2-DCB | **2,700** |
| 1,3-DCB | < 440 |
| 1,4-DCB | **1,600** |
| DRO | **110 J** |
| MORO | 210 J |
| TPHho | NA |

| FEPIT-EXS-7 [AMEC] | 6.0 ft |
|---|---|
| 1,2-DCB | < 4.9 |
| 1,3-DCB | < 4.9 |
| 1,4-DCB | < 4.9 |
| DRO | 1.1 |
| MORO | < 49 |
| TPHho | NA |

| SB-25 [AMEC] | 8.0 ft | 12.0 ft |
|---|---|---|
| 1,2-DCB | **34,000** | 690 |
| 1,3-DCB | 5,300 | 47 |
| 1,4-DCB | **20,000** | 200 |
| DRO | NA | NA |
| MORO | NA | NA |
| TPHho | **5,000** | < 49 |

| FEPIT-EXS-6 [AMEC] | 6.0 ft |
|---|---|
| 1,2-DCB | **71,000** |
| 1,3-DCB | **10,000** |
| 1,4-DCB | **43,000** |
| DRO | **1,600 J** |
| MORO | **2,300 J** |
| TPHho | NA |

| SB-32 [AMEC] | 4.0 ft | 9.0 ft | 12.0 ft |
|---|---|---|---|
| 1,2-DCB | < 4.5 | < 3.9 | < 3.9 |
| 1,3-DCB | < 4.5 | < 3.9 | < 3.9 |
| 1,4-DCB | < 4.5 | < 3.9 | < 3.9 |
| DRO | 2.1 | < 0.99 | < 1.0 |
| MORO | < 50 | < 50 | < 50 |
| TPHho | < 50 | < 50 | < 50 |

| SB-04 [AMEC] | 3.0 ft | 7.0 ft | 8.5 ft | 12.0 ft |
|---|---|---|---|---|
| 1,2-DCB | NA | NA | NA | NA |
| 1,3-DCB | NA | NA | NA | NA |
| 1,4-DCB | NA | NA | NA | NA |
| DRO | 2.6 | < 0.99 | < 0.99 | < 1.0 |
| MORO | < 50 | < 50 | < 49 | < 50 |
| TPHho | NA | NA | NA | NA |

Explanation

- AMEC soil and/or grab groundwater sample location (October 19-28, 2011)
- AMEC soil and/or grab groundwater sample location (May 16-July 26, 2011)
- AMEC soil and/or grab groundwater sample location (September 27-29, 2010)
- Ninyo & Moore soil and/or grab groundwater sample location (December 16, 2010)
- Basics Environmental soil and/or grab groundwater sample location (February 24-25, 2009)
- Sample collected from soil that was subsequently removed during excavation
- Approximate excavation boundary
- Approximate path of angled boring
- Interior building wall

Sampler

Sample ID – Sample depth (bgs)

Constituent

| B7 [Basics] | 4.0 ft |
|---|---|
| 1,2-DCB | < 5.0 |
| 1,3-DCB | < 5.0 |
| 1,4-DCB | < .0 |
| DRO | 33 |
| MORO | 180 |
| TPHho | NA |

Concentration (µg/kg)

Concentration (mg/kg)

| Residential ESLs | |
|---|---|
| 1,2-DCB | 1,100 |
| 1,3-DCB | 7,400 |
| 1,4-DCB | 590 |
| DRO | 83 |
| MORO | 370 |
| TPHho | 370 |

Notes:
1. Analytes shown on this figure were detected in at least one soil sample above their ESLs. Results shown in **bold** exceed their respective ESLs.
2. Shading indicates that the sample was collected from soil that was subsequently removed during excavation.

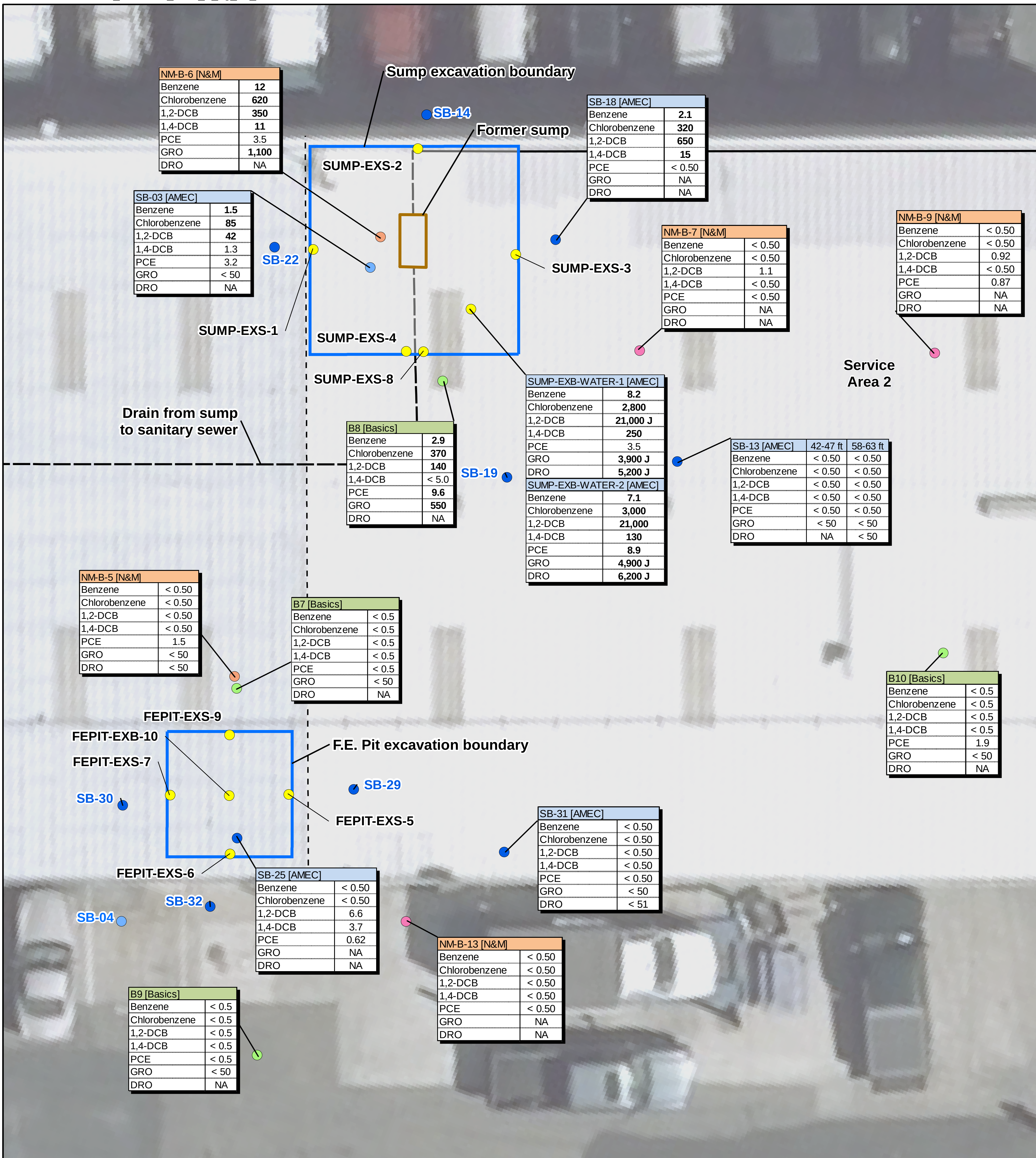
Abbreviations:
1,2-DCB = 1,2-dichlorobenzene
1,3-DCB = 1,3-dichlorobenzene
1,4-DCB = 1,4-dichlorobenzene
Basics = Basics Environmental, Inc.
bgs = below ground surface
DRO = diesel range organics
ESLs = Environmental Screening Levels
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
MORO = motor oil range organics
N&M = Ninyo & Moore
NA = not analyzed
< = not detected above the laboratoryreporting limit shown
J = The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
TPH = total petroleum hydrocarbons
TPHho = TPH quantified as hydraulic oil
VOCs = volatile organic compounds

0 2.5 5 Feet

TPH AND SELECTED VOCs IN SOIL,
FE PIT AREA
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 12/20/2011 | Project No. | OD10160070 |
|---|---|---|---|
| amec | | Figure | 5 |

S:\OD10\160070\task_00005\11_1108_r_fig_06_GW.mxd




## Explanation

- AMEC grab groundwater sample location (October 19-28, 2011)
- AMEC grab groundwater sample location (May 16-July 26, 2011)
- AMEC grab groundwater sample location (September 27-29, 2010)
- Ninyo & Moore grab groundwater sample location (August 10-12, 2011)
- Ninyo & Moore grab groundwater sample location (December 16, 2010)
- Basics Environmental soil and/or grab groundwater sample location (February 24-25, 2009)
- Approximate excavation boundary
- Interior building wall
- Approximate location of above-ground drain line
- Approximate location of below-ground drain line

Notes:

1. Analytes shown on this figure were detected in at least one sample above their respective ESLs in this portion of the site. Results shown in **bold** exceed their respective ESLs. Although 1,2,4-trichlorobenzene was detected in the two sump excavation water samples (SUMP-EXB-WATER-1 and -2) above the ESL, this constituent was not detected in any other sample and these results are not presented here.
2. Reported DRO results for samples collected by AMEC are from groundwater samples that were filtered prior to analysis.
3. Reported DRO results for samples collected by Ninyo & Moore are from groundwater samples that were not filtered prior to analysis.
4. Duplicate samples were analyzed for SUMP-EXB-WATER-1 and SUMP-EXB-WATER-2. The highest detected concentration is reported in the data box.
5. Samples were collected from first-encountered groundwater unless a depth (in feet below ground surface) is indicated.

Abbreviations:

1,2-DCB = 1,2-dichlorobenzene
1,4-DCB = 1,4-dichlorobenzene
Basics = Basics Environmental, Inc.
DRO = diesel range organics
ESLs = Environmental Screening Levels
GRO = gasoline range organics
µg/L = micrograms per liter
N&M = Ninyo & Moore
NA = not analyzed
< = not detected above the laboratoryreporting limit shown
PCE = tetrachloroethene
J = The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample
VOCs = volatile organic compounds

Sampler
Sample ID – B8 [Basics]
Constituent
Concentration (µg/L)

| B8 [Basics] | |
|---|---|
| Benzene | **2.9** |
| Chlorobenzene | **370** |
| 1,2-DCB | **140** |
| 1,4-DCB | < 5.0 |
| PCE | **9.6** |
| GRO | **550** |
| DRO | NA |

| Drinking Water ESLs | |
|---|---|
| Benzene | 1.0 |
| Chlorobenzene | 25 |
| 1,2-DCB | 10 |
| 1,4-DCB | 5.0 |
| PCE | 5.0 |
| GRO | 100 |
| DRO | 100 |

0 5 10 Feet

GRO, DRO, and SELECTED VOCs
IN GROUNDWATER
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 12/21/2011 | Project No. OD10160070 |
|---|---|---|
| amec | | Figure 6 |

**APPENDIX A**

Copies of Cornerstone Engineering Reports

Date: June 24, 2011
Project No.: 319-2-1

Prepared For: Mr. Peter Timmerman
**PACIFIC STATES ENVIRONMENTAL CONTRACTORS**
11555 Dublin Blvd.
Dublin, California 94568

Re: Geotechnical Consultation
Crown Chevrolet Sump Excavation
7544 Dublin Boulevard
Dublin, California

Dear Mr. Timmerman:

As requested, this letter presents the results of our geotechnical review of the proposed sump excavation proposed for the above referenced project. Our services were performed in accordance with our agreement dated June 20, 2011.

For our review, we received the following documents:

- A document titled, "Sump Remediation Work Plan, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, CA," prepared by AMEC Geomatrix dated April 18, 2011.
- A document titled, "Request for Proposal to Implement Sump Remediation Activities, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, CA," prepared by AMEC Geomatrix dated May 18, 2011.
- A set of building plans titled, "New Sales and Service Facility for Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1968.
- A set of building plans titled, "Proposed New Showroom and Remodel of Existing Facilities, Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1994.

## Project Background

The project will consist of excavating impacted soil from within the interior of the former auto service building. The scope of work was summarized in the Sump Remediation Work Plan prepared by AMEC Geomatrix, which included plan and cross section views of the proposed sump excavation area. The work plan also included soil boring and Cone Penetration Test logs performed by AMEC and others around the sump area. The existing sump is reportedly 2.5 by 5 feet in plan and extends approximately 3.5 feet below the existing floor level. Pacific States Environmental proposes to remove a portion of the existing concrete slab-on-grade, remove the existing concrete sump, and excavate impacted soil from around the sump to a maximum depth of approximately 16 feet. The minimum lateral dimensions of the excavation area are reported to be approximately 10 by 15 feet.

Due to the proximity of existing interior walls and exterior walls or columns relative to the proposed excavation, Pacific States proposes to excavate the soil in narrow sections (slots) approximately 18 inches wide. The slots will be excavated in an alternating pattern to reduce the potential for settlement or lateral movement of the adjacent foundations and existing slab-on-grade, and to reduce the potential for sidewall instability. The slot excavations will reportedly be backfilled with a Controlled Density Fill (CDF) and capped with compacted based material. We understand that temporary shoring for the excavation or underpinning for the existing building are not proposed or anticipated at this time.

Our services were limited to reviewing the proposed excavation plan based on available subsurface data collected at the site by others, reviewing the existing foundation plans, and providing supplemental recommendations regarding the proposed excavation phasing plan, as summarized below.

## Site Conditions

Based on our review of the building plans, the existing steel-frame building is supported by exterior steel columns and roof beams spaced at approximately 24 feet on center. The roof beams span the entire width of the building, so no interior columns are present. The exterior columns are supported on isolated spread footings approximately 5½ to 7 feet long and 21 inches wide. Interior footings for the interior wall adjacent to the sump (former exterior wall) are approximately 18 inches wide by 30 inches long and support interior pipe columns. Footings were reportedly designed in accordance with the 1961 Uniform Building Code for a maximum allowable bearing pressure of 1,500 pounds per square foot. Interior and exterior walls are supported on thickened concrete edges or pads approximately 12 wide by 12 inches thick.

Based on our review of the boring and CPT data previously collected by others, the sump structural section consists of the approximately 4- to 6-inch-thick existing concrete slab-on-grade underlain by up to 3 inches of aggregate base. The slab section is underlain by 3 to 5 feet of undocumented fill consisting of medium dense clayey sand and stiff sandy lean clay. The fill is underlain by native alluvial soil consisting of medium stiff to stiff silty clay and lean clay with sand to the maximum depth explored at 20 feet. The stiffness of the native clay appeared to decrease at a depth of approximately 11 to 15 feet, which corresponds to the increase in moisture near the ground water level.

Ground water was previously encountered by others at depths ranging from approximately 12 to 14 feet below the main floor level.

## Recommendations

Based on our review of the available subsurface data and our understanding of the proposed sump excavation, from a geotechnical viewpoint, the proposed phased sump excavation is suitable and temporary shoring will not be required. The primary geotechnical concern is the potential for lateral movement of the existing exterior column footing that could occur if the entire excavation were to be performed simultaneously or if the excavation were to be left open for a long period of time. Since a phased, narrow slot approach is to be utilized for the sump excavation project, in our opinion, the potential for lateral foundation movement should be adequately mitigated. We recommend that the sump excavation and backfilling consider the following items:

1. The width of each slot excavation adjacent to interior and exterior walls should be limited to no more than 18 inches when the edge of the excavation is located within 5 feet of a footing or wall.
2. The edge of slot excavations that are greater than 5 feet from an existing wall or footing should be no greater than 5 feet wide, as measured parallel to the wall or footing.
3. Slot excavations that extend up to the edge of the existing 18 by 30 inch pipe column footing should not be made directly in front of the footing, but should be offset so that no more than one-half the footing is exposed at any time.
4. Existing footings, if exposed, should not be undermined during excavation.
5. Slot excavations should be separated by at least 36 inches (measured from edge to edge of adjacent trenches) of undisturbed soil or previously placed CDF that has cured at least 24 hours. Slot trenches should not be cut adjacent to CDF that has cured less than 24 hours. Depending on the CDF mix design, it may be necessary to increase the cure time of the CDF, especially below the ground water table.
6. Slot excavations should be performed and backfilled on the same day to reduce the potential for lateral soil movement.
7. Due to presence of shallow ground water, the excavation may be susceptible to minor localized sloughing or caving. Therefore, Pacific States should be prepared to temporarily stabilize or backfill excavations if excessive sloughing or caving soils are encountered.
8. If ground water cannot be removed from the trenches prior to placing CDF, the CDF should be placed by tremie methods to keep the water from mixing with the CDF.
9. If existing footing edges are exposed, CDF should be used to backfill up to at least 3 inches above the bottom of the footing.
10. A pre-construction survey and/or photo-documentation of the existing facility should be performed prior to beginning the excavation.
11. If shallow sloughing or caving occurs beneath existing slab-on-grade or footing areas due to raveling of dry, cohesionless soils (e.g. underslab granular base or undocumented fill), the voids should be adequately backfill with CDF or other compacted fill material to reduce the potential for future settlement. This may require cutting the existing slab-on-grade back further and sloping the upper 3 to 5 feet of the excavation back at 1:1 (horizontal:vertical).
12. Due to potential variable subsurface conditions in the excavation area, modifications to the phased excavation plan may be required in the field during construction based on actual conditions encountered.
13. Construction personnel should not enter the slot excavations at any time unless temporary shoring is first installed in accordance with applicable OSHA requirements.

## Closure

We hope this provides the information you need at this time. Recommendations presented in this letter have been prepared for the sole use of Pacific States Environmental Contractors specifically for the property at 7544 Dublin Boulevard in Dublin, California. Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices at this time and location. No warranties are either expressed or implied.

If you have any questions or need any additional information from us, please call and we will be glad to discuss them with you.

Sincerely,

**Cornerstone Earth Group, Inc.**

REGISTERED PROFESSIONAL ENGINEER
JOHN R. DYE
No. GE2582
EXPIRES 12/31/12
GEOTECHNICAL
STATE OF CALIFORNIA

John R. Dye, P.E., G.E.
Principal Engineer

LCK:JRD

Copies: Addressee (1 by email)

CORNERSTONE
EARTH GROUP

| | |
|---|---|
| Date: | September 29, 2011 |
| Project No.: | 319-2-1 |
| Prepared For: | Mr. Gary Overton<br>**PACIFIC STATES ENVIRONMENTAL CONTRACTORS**<br>11555 Dublin Blvd.<br>Dublin, California 94568 |
| Re: | Geotechnical Consultation<br>Crown Chevrolet Front End Pit Excavation<br>7544 Dublin Boulevard<br>Dublin, California |

RECEIVED SEP 30 2011 CITY OF DUBLIN ... & SAFETY DIVISION

Dear Mr. Overton:

As requested, this letter presents the results of our supplemental geotechnical review of the proposed Front End (FE) Pit excavation proposed for the above referenced project. Our services were performed in accordance with our agreement dated September 28, 2011. As you know, we provided geotechnical consultation services for the sump excavation and presented our findings in our letter dated June 24, 2011.

For our review, we received the following documents:

- A document titled, "FE Pit Excavation Plan, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard, Dublin, CA," prepared by AMEC dated September 21, 2011.

Previous documents reviewed as part of our evaluation of the FE Pit excavation included:

- Miscellaneous boring and Cone Penetration Test logs from various locations within the existing building performed AMEC and others.
- A set of building plans titled, "New Sales and Service Facility for Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1968.
- A set of building plans titled, "Proposed New Showroom and Remodel of Existing Facilities, Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1994.

## Project Background

The project will consist of excavating impacted soil from within the interior of the former auto service building, which will also include the former FE Pit area in addition to the sump pit area. The excavation plan prepared by AMEC included plan and cross section views of the proposed FE Pit excavation area. The FE pit originally consisted of a 12 by 14 foot by 4 foot deep concrete pit. The pit was reportedly abandoned and backfilled with pea gravel and topped with a 6 inch thick concrete slab. We understand that Pacific States Environmental will remove the 6 inch slab and a portion of the surrounding concrete slab-on-grade, remove the existing FE Pit backfill, and excavate impacted soil from below the FE pit to a maximum depth of approximately

12 feet. The minimum lateral dimensions of the excavation area are anticipated to be approximately 14 by 15 feet.

Due to the proximity of existing interior walls and exterior walls or columns relative to the proposed excavation, we understand that Pacific States proposes to excavate the soil in narrow sections (slots) approximately 18 inches wide, similar to the methodology proposed for the nearby sump pit excavation. The slots will be excavated in an alternating pattern to reduce the potential for settlement or lateral movement of the adjacent foundations and existing slab-on-grade, and to reduce the potential for sidewall instability. The slot excavations will reportedly be backfilled with a Controlled Density Fill (CDF) and capped with compacted based material. We understand that temporary shoring for the excavation or underpinning for the existing building are not proposed or anticipated at this time.

Our services were limited to reviewing the proposed excavation plan based on available subsurface data collected at the site by others, reviewing the existing foundation plans, and providing supplemental recommendations regarding the proposed excavation phasing plan, as summarized below.

## Site Conditions

Based on our review of the building plans, the existing steel-frame building is supported by exterior steel columns and roof beams spaced at approximately 24 feet on center. The roof beams span the entire width of the building, so no interior columns are present. The exterior columns are supported on isolated spread footings approximately 5½ to 7 feet long and 21 inches wide. Interior footings for the interior wall adjacent to the FE Pit (former exterior wall) are approximately 18 inches wide by 30 inches long and support interior pipe columns. Footings were reportedly designed in accordance with the 1961 Uniform Building Code for a maximum allowable bearing pressure of 1,500 pounds per square foot. Interior and exterior walls are supported on thickened concrete edges or pads approximately 12 inches wide by 12 inches thick.

Based on our review of the boring and CPT data previously collected by others inside the building, the slab section is generally underlain by 3 to 5 feet of undocumented fill consisting of medium dense clayey sand and stiff sandy lean clay. The fill is underlain by native alluvial soil consisting of medium stiff to stiff silty clay and lean clay with sand to the maximum depth explored at 20 feet. The stiffness of the native clay appeared to decrease at a depth of approximately 11 to 15 feet, which corresponds to the increase in moisture near the ground water level.

Ground water was previously encountered by others at depths ranging from approximately 12 to 14 feet below the main floor level.

## Recommendations

Based on our review of the available subsurface data and our understanding of the proposed FE Pit excavation, from a geotechnical viewpoint, the proposed phased excavation is suitable and temporary shoring will not be required. The primary geotechnical concern is the potential for lateral movement of the existing exterior column footing that could occur if the entire excavation were to be performed simultaneously or if the excavation were to be left open for a long period of time. Since a phased, narrow slot approach is to be utilized for the FE pit excavation, in our opinion, the potential for lateral foundation movement should be adequately mitigated. We recommend that the FE Pit excavation and backfilling consider the following items:

1. The width of each slot excavation adjacent to interior and exterior walls should be limited to no more than 18 inches when the edge of the excavation is located within 5 feet of a footing or wall.
2. The edge of slot excavations that are greater than 5 feet from an existing wall or footing should be no greater than 5 feet wide, as measured parallel to the wall or footing.
3. Slot excavations that extend up to the edge of the existing 18 by 30 inch pipe column footing should not be made directly in front of the footing, but should be offset so that no more than one-half the footing is exposed at any time.
4. Existing footings, if exposed, should not be undermined during excavation.
5. Slot excavations should be separated by at least 36 inches (measured from edge to edge of adjacent trenches) of undisturbed soil or previously placed CDF that has cured at least 24 hours. Slot trenches should not be cut adjacent to CDF that has cured less than 24 hours. Depending on the CDF mix design, it may be necessary to increase the cure time of the CDF, especially below the ground water table.
6. Slot excavations should be performed and backfilled on the same day to reduce the potential for lateral soil movement.
7. Due to presence of shallow ground water, the excavation may be susceptible to minor localized sloughing or caving. Therefore, Pacific States should be prepared to temporarily stabilize or backfill excavations if excessive sloughing or caving soils are encountered.
8. If ground water cannot be removed from the trenches prior to placing CDF, the CDF should be placed by tremie methods to keep the water from mixing with the CDF.
9. If existing footing edges are exposed, CDF should be used to backfill up to at least 3 inches above the bottom of the footing.
10. A pre-construction survey and/or photo-documentation of the existing facility should be performed prior to beginning the excavation.
11. If shallow sloughing or caving occurs beneath existing slab-on-grade or footing areas due to raveling of dry, cohesionless soils (e.g. underslab granular base or undocumented fill), the voids should be adequately backfill with CDF or other compacted fill material to reduce the potential for future settlement. This may require cutting the existing slab-on-grade back further and sloping the upper 3 to 5 feet of the excavation back at 1:1 (horizontal:vertical).
12. Due to potential variable subsurface conditions in the excavation area, modifications to the phased excavation plan may be required in the field during construction based on actual conditions encountered.
13. Construction personnel should not enter the slot excavations at any time unless temporary shoring is first installed in accordance with applicable OSHA requirements.

## Closure

We hope this provides the information you need at this time. Recommendations presented in this letter have been prepared for the sole use of Pacific States Environmental Contractors specifically for the property at 7544 Dublin Boulevard in Dublin, California. Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices at this time and location. No warranties are either expressed or implied.

If you have any questions or need any additional information from us, please call and we will be glad to discuss them with you.

Sincerely,

**Cornerstone Earth Group, Inc.**

John R. Dye, P.E., G.E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
JOHN R. DYE
No. GE2582
EXPIRES 12/31/12
GEOTECHNICAL
STATE OF CALIFORNIA

Copies: Addressee (1 by email)

6/27/2011

Submittal #: 22979

**Customer: Pacific States Environmental**

Attn.: Pete Timmerman

RE: Crown Chevrolet

| East Bay Division | | |
|---|---|---|
| **Salesperson** | **Phone #** | **Fax #** |
| Mark Shaw | (925)348-4865 | (661)215-6372 |
| Rick Martinez | (925)200-3215 | (661)215-6310 |
| John Rios | (408)506-3655 | (661)885-4140 |
| Darla Allen | (916)240-1696 | (661)885-4151 |
| John Christ | (408)421-8179 | (661)215-6326 |
| Bill Blake | (408)969-4932 | |
| Hernan Perez | (916)467-2524 | |
| **Dispatch** | **1-866-476-2764 Ext. 1** | |

Dear Pete Timmerman:

CEMEX is pleased to submit the following concrete mix / mixes for the above referenced project:

These concrete mixes have been proportioned in accordance with the requirements of ACI 318, 301 or 211; applicable practices; industry standard; project specifications provided by the Customer; or by Customer specific request. (Local Standards)

| Mix Number | Description | Usage |
|---|---|---|
| 1412894 | FCF 320 C+F 90% PG AIR | CDF |
| 1412726 | 4P 470 C+F 15% WR | Sitework |

**When placing orders for this project, please order by concrete mix design number.**

The concrete as delivered to this project will meet or exceed the design strength specified on the delivery ticket when sampled at the point of discharge from the ready mix truck and evaluated in accordance with the latest version of ACI 318, ACI 301, and ASTM C-94. The testing laboratory must be certified in accordance with the provisions of ASTM C-1077. The concrete must be in compliance with the submitted mix design and must be tested in strict accordance with the latest version of the applicable ASTM standards.

**In accordance with ASTM C-94 and to comply with the latest version of ACI 318, CEMEX kindly requests that it be included on the distribution list for all Concrete Test Reports.**

Chemical admixtures are added in accordance with the chemical admixtures manufacturer's recommendatons. CEMEX may make adjustments to the dosages to meet changes in project site demands.

In order for Customer to ensure it receives concrete with its expected concrete strength, Customer is responsible for ensuring that field sampling has been done per ASTM C-172 and ASTM C-31, the testing laboratory is certified in accordance with ASTM C-1077, and testing fully complies with ASTM C-39.

Respectfully,
CEMEX

CEMEX

| | | | |
|---|---|---|---|
| Customer: | Pacific States Environmental | Date Issued: | 6/27/2011 |
| Attention: | Pete Timmerman | Plant: | 4431 Pleasanton |
| Project: | Crown Chevrolet | Submittal #: | 22979 |

**Mix #: 1412894** **Description: FCF 320 C+F 90% PG AIR**
**Use: CDF**

| Material | Description | Source | ASTM | Specific Gravity | oz/yd | Weight (lb) | Volume |
|---|---|---|---|---|---|---|---|
| Cement | Type II/V Lehigh | Lehigh | C 150 | 3.15 | | 32.0 | 0.16 |
| Fly Ash F | ISG Flyash | Headwaters Resources | C-618 | 2.36 | | 288.0 | 1.95 |
| # 8 | Eliot 3/8" | Cemex | C-33 | 2.68 | | 1200.0 | 7.17 |
| Blended Sand | Concrete Sand | Various | C-33 | 2.65 | | 1800.7 | 10.88 |
| Air Entrainer | Daravair 1000 | 2-20 oz/cy | C-260 | 1.00 | | | |
| City | Water | | C-94 | 1.00 | 45.0gal | 375.5 | 6.02 |
| Air | | | | | | | 0.81 |
| | | | | | **TOTAL** | **3696** | **27.00** |

| | | | |
|---|---|---|---|
| Specified F'c : | 50 – 150 PSI @ 28 Days | Designed Wet Unit Weight: | 136.9 lbs./cu.ft. |
| Specified Slump: | in. | Designed W/C + P Ratio: | 1.17 |
| Specified Air: | 5.00 % | Designed Volume: | 27.00 cu.ft. |

CEMEX has no knowledge or authority regarding where this concrete mix is to be placed or its intended application. It is the sole responsibility of the Customer, to ensure that the mix parameters of compressive strength, water cement ratio, cement content, pumpability and air content, are appropriate for the environmental conditions at the project site.

The Customer acknowledges and confirms that this information is confidential and is being disclosed to the recipient for purposes of review only. By accepting this information, the recipient agrees:

- to maintain this information in confidence at all times,
- to not disclose this information, in whole or in part, by way of summary or analysis, to anyone except as explicitly agreed to by Cemex.

COMMENTS:

Marla Woodard Quality Specialist

| | | | |
|---|---|---|---|
| Customer: | Pacific States Environmental | Date Issued: | 6/27/2011 |
| Attention: | Pete Timmerman | Plant: | 4431 Pleasanton |
| Project: | Crown Chevrolet | Submittal #: | 22979 |

**Mix #: 1412726** **Description: 4P 470 C+F 15% WR**
**Use: Sitework**

| Material | Description | Source | ASTM | Specific Gravity | oz/yd | Weight (lb) | Volume |
|---|---|---|---|---|---|---|---|
| Cement | Type II/V Lehigh | Lehigh | C 150 | 3.15 | | 400.0 | 2.03 |
| Fly Ash F | ISG Flyash | Headwaters Resources | C-618 | 2.36 | | 70.0 | 0.48 |
| # 67 | Eliot 3/4" | Cemex | C-33 | 2.68 | | 1750.0 | 10.46 |
| Blended Sand | Concrete Sand | Various | C-33 | 2.65 | | 1525.1 | 9.22 |
| Type A Water Reducer | Wrda 64 | 3-5 oz/cwt cement | C-494 | 1.00 | | | |
| City | Water | | C-94 | 1.00 | 33.0gal | 275.4 | 4.41 |
| Air | | | | | | | 0.41 |
| | | | | | **TOTAL** | **4020** | **27.00** |

| | | | |
|---|---|---|---|
| Specified F'c : | 2,500 PSI | Designed Wet Unit Weight: | 148.9 lbs./cu.ft. |
| Specified Slump: | 4.00 in. | Designed W/C + P Ratio: | 0.59 |
| Specified Air: | 1.50 % | Designed Volume: | 27.00 cu.ft. |

CEMEX has no knowledge or authority regarding where this concrete mix is to be placed or its intended application. It is the sole responsibility of the Customer, to ensure that the mix parameters of compressive strength, water cement ratio, cement content, pumpability and air content, are appropriate for the environmental conditions at the project site.

The Customer acknowledges and confirms that this information is confidential and is being disclosed to the recipient for purposes of review only. By accepting this information, the recipient agrees:

- to maintain this information in confidence at all times,
- to not disclose this information, in whole or in part, by way of summary or analysis, to anyone except as explicitly agreed to by Cemex.

COMMENTS:

Marla Woodard Quality Specialist

CEMEX

## Backup Data Sheet For Mix #: 1412726

**Date:** 6/27/2011

**Units :** US

STRENGTH SUMMARY, Compression Strengths — Either 4" x 8" Or 6" x 12"

| No. Of Tests | Avg Slump | Avg Air | Avg 7 Day | Avg 28 Day | Avg Acc Age | Accept Age | Std Dev | ACI318 Req'd |
|---|---|---|---|---|---|---|---|---|
| 30 | 3.33 | .00 | 2580 | 4100 | 4100 | 28 | 770 | 3780 |

| ACI 318 F'c+1.34S | ACI318 F'c+ 2.33S-500 |
|---|---|
| 3525 | 3783 |

DETAILED STRENGTH, Compression — Either 4" x 8" Or 6" x 12"

| Batch Number | Test Number | Date | Plant | Slump | Air | Strengths 7 Day | 28 Day | Acc Age | Acc Age |
|---|---|---|---|---|---|---|---|---|---|
| 4442-5877 | E3027-3029 | 9/13/2010 | 4442 | 2.50 | | 2410 | 3690 | 3690 | 28 |
| 4442-5877 | E3033-3035 | 9/13/2010 | 4442 | 2.00 | | 2390 | 3550 | 3550 | 28 |
| 4442-5877 | E3024-3026 | 9/13/2010 | 4442 | 2.50 | | 2630 | 3910 | 3910 | 28 |
| 4442-7442 | E3151-3153 | 9/15/2010 | 4442 | 4.25 | | 2290 | 3290 | 3290 | 28 |
| 4442-7442 | E3154-3156 | 9/15/2010 | 4442 | 4.50 | | 1890 | 3010 | 3010 | 28 |
| 4443-6280 | E3470-3472 | 9/23/2010 | 4443 | 5.00 | | 2230 | 3440 | 3440 | 28 |
| 4439-8720 | E3418-3420 | 9/24/2010 | 4439 | 3.00 | | 2470 | 3910 | 3910 | 28 |
| 23631109 | ESAC24749A | 10/6/2010 | 4439 | 4.50 | | 2140 | 3450 | 3450 | 28 |
| 23634813 | ESAC24753A | 10/8/2010 | 4443 | 5.00 | | 2030 | 3510 | 3510 | 28 |
| 4442-7442 | E4012-4014 | 10/11/2010 | 4442 | 2.00 | | 2170 | 3440 | 3440 | 28 |
| 4442-7442 | E4009-4011 | 10/11/2010 | 4442 | 2.00 | | 2570 | 3900 | 3900 | 28 |
| 4442-7442 | E4153-4155 | 10/15/2010 | 4442 | 4.50 | | 2090 | 3440 | 3440 | 28 |
| 4442-7442 | E4150-4152 | 10/15/2010 | 4442 | 6.00 | | 2120 | 3330 | 3330 | 28 |
| 4439-8747 | E4861-4863 | 11/2/2010 | 4439 | 3.00 | | 2430 | 3940 | 3940 | 28 |
| 4439-8747 | E4864-4866 | 11/2/2010 | 4439 | 3.00 | | 2410 | 3860 | 3860 | 28 |
| 4439-8747 | E4867-4869 | 11/2/2010 | 4439 | 3.00 | | 2590 | 4190 | 4190 | 28 |
| 4442-7442 | E5537-5539 | 11/19/2010 | 4442 | 3.00 | | 3760 | 5280 | 5280 | 28 |
| 4442-7442 | E5540-5542 | 11/19/2010 | 4442 | 2.75 | | 3440 | 5620 | 5620 | 28 |
| 4442-7442 | E5543-5545 | 11/19/2010 | 4442 | 3.00 | | 3340 | 5250 | 5250 | 28 |
| 4442-7442 | E5534-5536 | 11/19/2010 | 4442 | 3.00 | | 3670 | 5950 | 5950 | 28 |
| 4439-7442 | E5712-5714 | 11/30/2010 | 4442 | 5.00 | | 2090 | 3780 | 3780 | 28 |
| 4442-7442 | E5715-5717 | 11/30/2010 | 4442 | 4.00 | | 2230 | 3930 | 3930 | 28 |
| 4442-7442 | E5718-5720 | 11/30/2010 | 4442 | 3.75 | | 2270 | 3830 | 3830 | 28 |
| 4442-7442 | E5721-5723 | 11/30/2010 | 4442 | 4.25 | | 2020 | 3430 | 3430 | 28 |
| 4443-6280 | E6486-6488 | 1/17/2011 | 4443 | 3.50 | | 3070 | 4520 | 4520 | 28 |
| 4442-7442 | E6670-6672 | 1/27/2011 | 4442 | 2.50 | | 3040 | 4850 | 4850 | 28 |
| 4442-7442 | E6664-6666 | 1/27/2011 | 4442 | 2.00 | | 3370 | 5030 | 5030 | 28 |
| 4442-7442 | E6661-6663 | 1/27/2011 | 4442 | 2.50 | | 3380 | 4210 | 4210 | 28 |
| 4442-7442 | E6658-6660 | 1/27/2011 | 4442 | 2.00 | | 1850 | 5040 | 5040 | 28 |
| 4442-7442 | E6673-6675 | 1/27/2011 | 4442 | 2.00 | | 3100 | 4570 | 4570 | 28 |

LEHIGH

HEIDELBERGCEMENT Group

*TECHNICAL SERVICES SALES & MARKETING*
12667 Alcosta Blvd., Suite 400
San Ramon, CA 94583
Telephone (925) 244 6500
FAX (925) 244 6586

*PERMANENTE PLANT*
24001 Stevens Creek Blvd.
Cupertino, CA 95014-5659
Telephone (408) 996-4033
FAX (408) 996-4033

# CEMENT TEST REPORT

**Cement:** Permanente Type II-V, Low Alkali; ASTM C 150-09

**Production Period: April 2011** **Report Date:** 5/11/2011

| STANDARD CHEMICAL REQUIREMENTS | TEST | ASTM C 150-09 SPECIFICATIONS | |
|---|---|---|---|
| ASTM C 114 | RESULTS | TYPE II | TYPE V |
| Silicon Dioxide ($SiO_2$), % | 21.7 | 20.0 Min | ---- |
| Aluminum Oxide ($Al_2O_3$), % | 3.9 | 6.0 Max | ---- |
| Ferric Oxide ($Fe_2O_3$), % | 3.6 | 6.0 Max | ---- |
| Calcium Oxide (CaO), % | 65.5 | ---- | ---- |
| Magnesium Oxide (MgO), % | 1.2 | 6.0 Max | 6.0 Max |
| Sulfur Trioxide ($SO_3$), % | 3.1 | 3.0 Max | $2.3^B$ Max |
| Loss on Ignition (LOI), % | 0.9 | 3.0 Max | 3.0 Max |
| Insoluble Residue, % | 0.17 | 0.75 Max | 0.75 Max |
| Alkalies ($Na_2O$ equivalent), % | 0.31 | 0.60 Max | 0.60 Max |
| Tricalcium Silicate ($C_3S$), % | 61 | ---- | ---- |
| Dicalcium Silicate ($C_2S$), % | 16 | ---- | ---- |
| Tricalcium Aluminate ($C_3A$), % | 4 | 8 Max | 5 Max |
| Tetracalcium Aluminoferrite ($C_4AF$), % | 11 | ---- | ---- |
| 2 ($C_3A$) + $C_4AF$, % | 19 | ---- | 25 Max |
| **PHYSICAL REQUIREMENTS** | | | |
| (ASTM C 1038) Expansion @ 14 days,% | 0.003 | 0.020 Max | 0.020 Max |
| (ASTM C 452) Expansion @ 14 days,% | 0.021 | ---- | 0.04 Max |
| (ASTM C 430) -325 Mesh, % | 98.9 | ---- | ---- |
| (ASTM C 204) Blaine, m2/kg | 345 | 280 Min | 280 Min |
| (ASTM C114) Limestone, max, % | 2.5 | 5 Max | 5 Max |
| (ASTM C114) Limestone, %CaCO3 | 81 | ---- | ---- |
| (ASTM C114) Cement, %CO2 | 0.89 | ---- | ---- |
| (ASTM C 191) Time of Setting - Initial (Vicat) | 138 | 45 Min | 45 Min |
| (ASTM C 191) Time of Setting - Final (Vicat) | 300 | 375 Max | 375 Max |
| (ASTM C 451) False Set, % | 87 | 50 Min | 50 Min |
| (ASTM C 185) Air Content, % | 6.8 | 12 Max | 12 Max |
| (ASTM C 151) Autoclave Expansion, % | -0.01 | 0.80 Max | 0.80 Max |
| (ASTM C 187) Normal Consistency, % | 24.7 | ---- | ---- |
| (ASTM C 109) Compressive Strength, psi (MPa) | | | |
| 1 Day | 1720 | ---- | ---- |
| 3 Day | 2878 | 1500 (10.3) Min | 1160 (8.0) Min |
| 7 Day | 3873 | 2500 (17.2) Min | 2180 (15.0) Min |
| 28 Day (previous month) | 7307 | ---- | 3050 (21.0) Min |

This cement meets the requirements of specification:

ASTM C150-09 Type II-V, Low Alkali
[a] Adjusted per ASTM C-150-09 Section A1.6
Caltrans Section 90-2.01 - Type II-V Modified
ASTM C 1157 Portland Cement Type HS

Alan Sabawi, Quality Control Manager

**Applicable ASTM C 150 Notes:**

**Note B:** There are cases where the optimum SO3 (using Test Method C563) for a particular cement is close to or in excess of the limit in this specification. In such cases where properties of a cement can be improved by exceeding the SO3 limit stated in this table it is permissible to exceed the values in the table, provided it has been demonstrated by Test Method C1038 that the cement with the increased SO3 will not develop expansion in water exceeding 0.020% at 14 days. When the manufacturer supplies cement under this provision, he shall, upon request, supply supporting data to the purchaser.

**Note C:** Limestone addition as per C 150-09 Item 5.1.3

**HEADWATERS** RESOURCES

*Adding Value to Energy ™*

**ASTM C618 Testing of**
**Jim Bridger Fly Ash**

| | | | |
|---|---|---|---|
| **Sample Type:** | **3200-ton** | **Report Date:** | **6/15/2011** |
| **Sample Date:** | **4/15 - 4/26/11** | **MTRF ID** | **797JB** |
| **Sample ID:** | **BR-028-11-T** | | |

| **Chemical Analysis** | | | **ASTM Limits Class F** | **ASTM Limits Class C** | **ASTM Test Method** |
|---|---|---|---|---|---|
| Silicon Dioxide ($SiO_2$) | 60.22 | % | | | |
| Aluminum Oxide ($Al_2O_3$) | 18.20 | % | | | |
| Iron Oxide ($Fe_2O_3$) | 4.42 | % | | | |
| Sum of Constituents | 82.84 | % | 70.0% min | 50.0% min | D4326 |
| Sulfur Trioxide ($SO_3$) | 0.66 | % | 5.0% max | 5.0% max | D4326 |
| Calcium Oxide (CaO) | 5.90 | % | | | D4326 |
| Moisture | 0.15 | % | 3.0% max | 3.0% max | C311 |
| Loss on Ignition | 0.51 | % | 6.0% max | 6.0% max | C311 |
| **Physical Analysis** | | | | | |
| Fineness, % retained on #325 | 22.87 | % | 34% max | 34% max | C311, C430 |
| Strength Activity Index - 7 or 28 day requirement | | | | | C311, C109 |
| 7 day, % of control | 99 | % | 75% min | 75% min | |
| 28 day, % of control | 96 | % | 75% min | 75% min | |
| Water Requirement, % control | 95 | % | 105% max | 105% max | |
| Autoclave Soundness | 0.02 | % | 0.8% max | 0.8% max | C311, C151 |
| Density | 2.35 | | | | C311 |

***Headwaters Resources certifies that pursuant to current ASTM C618 protocol for testing, the test data listed herein was generated by applicable ASTM methods and meets the requirements of ASTM C618 for Class F fly ash.***

Bobby Bergman
MTRF Manager

AASHTO R18

Materials Testing & Research Facility
2650 Old State Highway 113
Taylorsville, Georgia 30178
P: 770.684.0102
F: 770.684.5114
www.headwaters.com

Aggregate Technical Services
1544 Stanley Boulevard
Pleasanton, CA 94566

Telephone: (925) 249-6422 Fax: (925) 665-1550

April 14, 2011

CEMEX Ready Mix
Attn: Bob Foley

Project Reference: General Information

We submit the typica l test data below for your appr oval and as certification of the following product:

Source: Eliot #4403
SMARA : #91-01-0009
Product: 3/4" x #4 Gravel

| U.S. Sieve | % Passing | |
|---|---|---|
| 1" (25.0 mm) | 100 | |
| 3/4" (19.0 mm) | 86 +/- 7 | X-Value = 85 |
| 1/2" (12.5 mm) | 39 +/- 11 | |
| 3/8" ( 9.5 mm) | 23 +/- 8 | X-Value = 30 |
| #4 (4.75 mm) | 3 +/- 2 | |
| #8 (2.36 mm) | 1 +/- 1 | |

Cleanness Value (CTM-227) = 75 Minimum
Durability (CTM-229) = 59
Sodium Soundness (C-88) = 5.1%
LA Rattler (C-131) (500 revs) = 21.6%
Lightweight Pieces (C-123)
Coal & Lignite = 0.1%
Chert & Shale = 0.4%
Specific Gravity (Bulk SSD) = 2.68
Absorption = 1.5 +/- 0.3%
Clay Lumps & Friable Particles (C-142) = 0.3%
Material Finer than #200 (C-117) = <1
Reactivity (ASTM C 289) = Innocuous

The above product complies wih ASTM C33, Size 57, and Caltrans Standard Specification s, May 2006, Section 90, 1" x #4 Coarse Aggregate.

Antonio C. Fuentes
Manager, Quality Control
CEMEX

cc: Syl LaMacchia, Chris Mathias

**Aggregate Technical Services**
1544 Stanley Boulevard
Pleasanton, CA 94566

Telephone: (925) 249-6422 Fax: (925) 665-1550

April 14, 2011

CEMEX Ready Mix
Attn: Bob Foley

Project Reference: General Information

We submit the typical test data below for your approval and as certification of the following product:

Source: Eliot #4403
SMARA : #91-01-0009
Product: 3/8" x #4 Gravel

| U.S. Sieve | | % Passing | |
|---|---|---|---|
| 3/4" | (19.0 mm) | 100 | |
| 1/2" | (12.5 mm) | 99 +/- 1 | |
| 3/8" | ( 9.5 mm) | 88 +/- 7 | x value = 83 |
| #4 | (4.75 mm) | 19 +/- 8 | |
| #8 | (2.36 mm) | 1 +/- 1 | |
| #16 | (1.18 mm) | 1 +/- 1 | |

Cleanness Value (CTM-227) = 75 Minimum
Durability (CTM-229) = 47
Sodium Soundness (C-88) = 6.0%
LA Rattler (C-131) (500 revs) = 24.3%
Lightweight Pieces (C-123)
Coal & Lignite = 0.1%
Chert & Shale = 0.3%
Specific Gravity (Bulk SSD) = 2.68
Absorption = 1.5 +/- 0.3%
Clay Lumps & Friable Particles (C-142) = 0.4%
Material Finer than #200 (C-117) = <1
Reactivity (ASTM C 289) = Innocuous

The above product complies with ASTM C33 Size 8, and CalTrans Standard Specifications, May 2006, Section 90, 3/8" x #8 Coarse Aggregate.

Antonio C. Fuentes
Manager, Quality Control
CEMEX

cc: Syl LaMacchia, Chris Mathias

AGGREGATE TECHNICAL SERVICES
1544 Stanley Boulevard
Pleasanton, CA 94566

Telephone: (925) 249-6422 Fax: (925) 665-1550

April 14, 2011

CEMEX Ready Mix
Attn: Bob Foley

Project Reference: General Information

We submit the typica l test data below for your appr oval and as certification of the following product:

Source: Eliot #4403
SMARA : #91-01-0009
Product: Concrete Sand

| U.S. Sieve | | % Passing | |
|---|---|---|---|
| 3/8" | ( 9.5 mm) | 100 | |
| #4 | (4.75 mm) | 99 +/- 1 | |
| #8 | (2.36 mm) | 78 +/- 4 | |
| #16 | (1.18 mm) | 50 +/- 5 | X-Value = 55 |
| #30 | ( 600 µm) | 30 +/- 5 | X-Value = 34 |
| #50 | ( 300 µm) | 14 +/- 4 | X-Value = 16 |
| #100 | ( 150 µm) | 4 +/- 2 | |
| #200 | ( 75 µm) | 2 +/- 1 | |

Fineness Modulus = 3.25
Sand Equivalent = 75 Minimum
Durability Index = 52
Sodium Soundness (C-88) = 3.8%
Lightweight Pieces (C-123)
Coal & Lignite = 0.1%
Specific Gravity (Bulk SSD) = 2.67
Absorption = 1.8% +/- 0.3%
Relative Mortar Strength (CTM-515) = 100%
Clay Lumps & Friable Particles (C-142) = 0.7%
Organic Impurities = Satisfactory
Material Finer than #200 (C-117) = <3
Reactivity (ASTM C 289) = Innocuous

This product complies wih the Caltras Standard Specifications, May 2006; Section 90 for Fine Aggregate, and ASTM C-33 for Concrete Sand.

Antonio C. Fuentes
Manager, Quality Control
CEMEX

cc: Syl LaMacchia, Chris Mathias

**Grace Construction Products**

W.R. Grace & Co. - Conn.
293 Wright Brothers Avenue
Livermore, CA 94550

T 925-443-9700

www.graceconstruction.com

6/10/2011

Erick Francisco
Cemex
1544 Stanley Blvd
Pleasanton, California 94566

Project Name: MISCELLANEOUS
Product Selected: Daravair® 1000

GRACE

This is to certify that the Daravair 1000, a Air-Entraining Agent, as manufactured and supplied by Grace Construction Products, W.R. Grace & Co. - Conn., is formulated to comply with the Specifications for Chemical Admixtures for Concrete, ASTM: C260, AASHTO: M154.

Daravair 1000 does not contain calcium chloride or chloride containing compounds as a functional ingredient. Chloride ions may be present in trace amounts contributed from the process water used in manufacturing.

The foregoing is in addition to and not in substitution for our standard Conditions of Sale attached.

Michael Gardner

Mike Gardner
Western Region Technical Services Manager

GRACE

# DARAVAIR® 1000
## Air-entraining admixture
ASTM C260

### Product Description

Daravair® 1000 is a liquid air-entraining admixture that provides freeze-thaw resistance, yield control, and finishability performance across the full range of concrete mix designs. Daravair 1000 is a clean, light-orange product designed to generate specification-quality air systems. Based on a high-grade saponified rosin formulation, Daravair 1000 is chemically similar to vinsol-based products, but with increased purity and supply dependability. Daravair 1000 weighs approximately 8.5 lbs/gal (1.02 kg/L). Daravair 1000 does not contain intentionally added chloride.

### Uses

Daravair 1000 air-entraining admixture may be used wherever the purposeful entrainment of air is required by concrete specifications. Formulated to perform across the entire spectrum of production mixes, Daravair 1000 generates quality, freeze-thaw resistant air systems in concrete conditions that include the following:

- Low slump
- Paving
- Central mix
- Extruded slip form
- Mixes containing hot water and accelerators
- Precast
- High cement factor
- Fly ash and slag
- Superplasticizers
- Manufactured sands

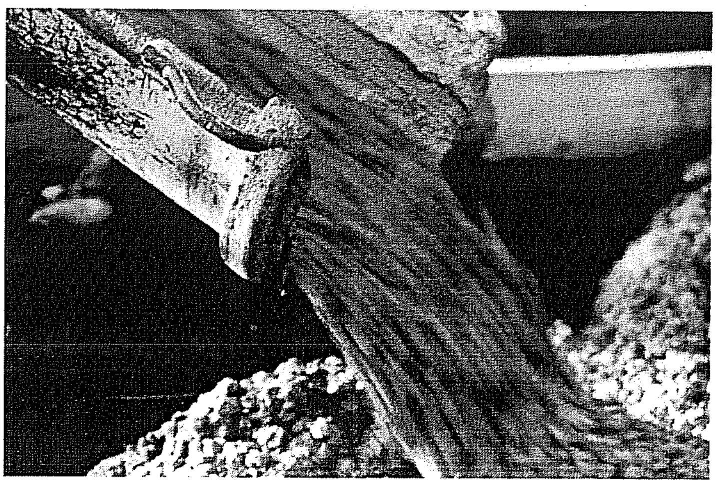
### Performance

Air is incorporated into the concrete by the mechanics of mixing and stabilized into millions of discrete semi-microscopic bubbles in the presence of a specifically designed air-entraining admixture such as Daravair 1000. These air bubbles act much like flexible ball bearings increasing the mobility, or plasticity and workability of the concrete. This can permit a reduction in mixing water with no loss of slump. Placeability is improved. Bleeding, plastic shrinkage and segregation are minimized.

Through the purposeful entrainment of air, Daravair 1000 markedly increases the durability of concrete to severe exposures particularly to freezing and thawing. It has also demonstrated a remarkable ability to impart resistance to the action of frost and de-icing salts as well as sulfate, sea and alkaline waters.

### Product Advantages

- Rapid air build suitable for short mix cycles
- Can be used in wide spectrum of mix designs



## Addition Rates

There is no standard addition rate for Daravair 1000. The amount to be used will depend upon the amount of air required for job conditions, usually in the range of 4 to 8%. Typical factors which might influence the amount of air-entraining admixture required are temperature, cement, sand gradation, and the use of extra fine materials such as fly ash and microsilica. Typical Daravair 1000 addition rates range from ½ to 3 fl oz/100 lbs (30 to 200 mL/100 kg) of cement. Pretesting of concrete should be performed to confirm dosage rates required to achieve desired concrete performance.

The air-entraining capacity of Daravair 1000 is usually increased when other concrete admixtures are contained in the concrete, particularly water-reducing admixtures and water-reducing retarders. This may allow up to ⅔ reduction in the amount of Daravair 1000 required.

### Mix Adjustment

Entrained air will increase the volume of the concrete making it necessary to adjust the mix proportions to maintain the cement factor and yield. This may be accomplished by a reduction in water requirement and aggregate content.

## Compatibility with Other Admixtures and Batch Sequencing

Daravair 1000 is compatible with most Grace admixtures as long as they are added separately to the concrete mix. In general, it is recommended that Daravair 1000 be added to the concrete mix near the beginning of the batch sequence for optimum performance, preferably by "dribbling" on the sand. Different sequencing may be used if local testing shows better performance. Please see Grace Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations. Daravair 1000 should not be added directly to heated water.

Pretesting of the concrete mix should be performed before use, and as conditions and materials change in order to assure compatibility, and to optimize dosage rates, addition times in the batch sequencing and concrete performance. Please consult your Grace representative for guidance.

## Packaging & Handling

Daravair 1000 is available in bulk, delivered by metered tank trucks and in 55 gal (210 L) drums. **Daravair 1000 will freeze at about 30°F (-1°C) but its air-entraining properties are completely restored by thawing and thorough mechanical agitation.**

## Dispensing Equipment

A complete line of accurate automatic dispensing equipment is available. These dispensers can be located to discharge into the water line, the mixer, or on the sand.

## Specifications

Concrete shall be air entrained concrete, containing 4 to 8% entrained air. The air contents in the concrete shall be determined by the pressure method (ASTM Designation C231) or volumetric method (ASTM Designation C173). The air-entraining admixture shall be a completely neutralized rosin solution, such as Daravair 1000, as manufactured by Grace Construction Products, or equal, and comply with *Standard Specification for Air-Entraining Admixtures* (ASTM Designation C260). The air-entraining admixture shall be added at the concrete mixer or batching plant at approximately ½ to 3 fl oz/100 lbs (30 to 200 mL/100 kg ) of cement, or in such quantities as to give the specified air contents.





AIR-7G Printed in U.S.A. 5/09 FA/LVI/1M

GRACE

**Grace Construction Products**

W.R. Grace & Co. – Conn.
293 Wright Brothers Avenue
Livermore, CA 94550

T 925-443-9700

www.graceconstruction.com

6/10/2011

Erick Francisco
Cemex
1544 Stanley Blvd
Pleasanton, California 94566

Project Name: MISCELLANEOUS
Product Selected: WRDA® 64

This is to certify that the WRDA 64, a Water Reducer, as manufactured and supplied by Grace Construction Products, W.R. Grace & Co. – Conn., is formulated to comply with the Specifications for Chemical Admixtures for Concrete, ASTM: C494, Type A, D, AASHTO: M194, Type A, D.

WRDA 64 does not contain calcium chloride or chloride containing compounds as a functional ingredient. Chloride ions may be present in trace amounts contributed from the process water used in manufacturing.

The foregoing is in addition to and not in substitution for our standard Conditions of Sale attached.

Michael Gardner

Mike Gardner
Western Region Technical Services Manager

GRACE

# WRDA® 64

## Water-reducing admixture

### ASTM C494 Type A and D

## Product Description

WRDA® 64 is a polymer based aqueous solution of complex organic compounds. WRDA 64 is a ready-to-use low viscosity liquid which is factory pre-mixed in exact proportions to minimize handling, eliminate mistakes and guesswork. WRDA 64 does not contain calcium chloride and weighs approximately 10.1 lbs/gal (1.21 kg/L).

## Uses

WRDA 64 produces a concrete with lower water content (typically 8 to 10% reduction), greater plasticity and higher strength. It is used in ready-mix plants, block and concrete product plants, in lightweight and prestressed work wherever concrete is produced.

WRDA 64 also performs especially well in concrete containing fly ash and other pozzolans.

## Finishability

The cement paste, or mortar, in WRDA 64 admixtured concrete has improved trowelability. The influence of WRDA 64 on the finishability of lean mixes has been particularly noticeable. Floating and troweling, by machine or hand, imparts a smooth, close tolerance surface.

## Addition Rates

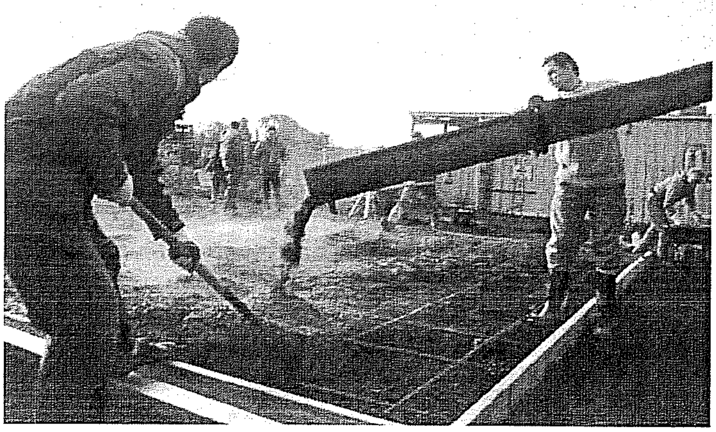
The addition rate of WRDA 64 is 3 to 6 fl oz/100 lbs (195 to 390 mL/100 kg) of cement. Pretesting is required to determine the appropriate addition rate for Type A and Type D performance. Optimum addition depends on the other concrete mixture components, job conditions, and desired performance characteristics.

## Compatibility with Other Admixtures and Batch Sequencing

WRDA 64 is compatible with most Grace admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line. In general, it is recommended that WRDA 64 be added to the concrete mix near the end of the batch sequence for optimum performance. Different sequencing may be used if local testing shows

**Product Advantages**

- Consistent water reduction and set times
- Improves performance concrete containing supplementary cementitious materials
- Produces concrete that is more workable, easy to place and finish
- High compressive and flexural strengths



better performance. Please see Grace Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations. WRDA 64 should not come in contact with any other admixture before or during the batching process, even if diluted in mix water.

Pretesting of the concrete mix should be performed before use, and as conditions and materials change in order to assure compatibility, and to optimize dosage rates, addition times in the batch sequencing and concrete performance. For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent (such as Daravair® or Darex® product lines) is recommended to provide suitable air void parameters for freeze-thaw resistance. Please consult your Grace representative for guidance.

## Packaging & Handling

WRDA 64 is available in bulk, delivered by metered tank trucks, and in 55 gal (210 L) drums. It will freeze at about 28°F (-2°C), but will return to full strength after thawing and thorough agitation.

## Dispensing Equipment

A complete line of accurate, automatic dispensing equipment is available. WRDA 64 may be introduced to the mix on the sand or in the water.

## Specifications

Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.

The water-reducing (or water-reducing and retarding) admixture shall be WRDA 64, as manufactured by Grace Construction Products, or equal. The admixture shall not contain calcium chloride. It shall be used in strict accordance with the manufacturers' recommendations. The admixture shall comply with ASTM Designation C494, Type A water-reducing (or Type D water-reducing and retarding) admixtures. Certification of compliance shall be made available on request.

The admixture shall be considered part of the total water. The admixture shall be delivered as a ready-to-use liquid product and shall require no mixing at the batching plant or job site.





CMD-366G Printed in U.S.A. 5/09
FA/LVI/1M

GRACE

# APPENDIX B

Permits

*********************
*** TX REPORT ***
*********************

TRANSMISSION OK

| | |
|---|---|
| TX/RX NO | 3913 |
| RECIPIENT ADDRESS | 914159280338 |
| DESTINATION ID | |
| ST. TIME | 10/11 14:14 |
| TIME USE | 01'00 |
| PAGES SENT | 3 |
| RESULT | OK |

amec

# Fax

| | | | |
|---|---|---|---|
| To | David Garrison | From | Andrew Lojo |
| Company | BAAQMD | Tel | 510 663 4153 |
| Fax | 415 928-0338 | Fax | 510 663-4141 |
| Pages | 03 (inc. this page) | Email | Andrew.lojo@AMEC.com |
| cc | | Sent by | AML |
| | | Date | 10-11-11 |
| | | Ref | |
| | | File name | |

**Subject Revised/Resubmitted Soil Excavation Notice**

Dear Mr. Garrison,

Attached is a revised/resubmitted soil excavation notice for a contaminated soil excavation project located in Dublin Ca. I previously faxed in a notice form on July 12, 2011 when we planned on starting the work on July 18, 2011. We subsequently identified a second area in the same building that also required excavation. The contaminants are the same, VOC's primarily consisting of chlorobenzene. Our new start date is October 17, 2011.

Please call me if you have any questions. We do not believe odors will be an issue because we are only excavating about 50 cubic yards per day, and the work will be inside a building.

This is located at the Crown Chevrolet site, 7544 Dublin Boulevard, in Dublin Ca.

Thanks

Andy Lojo
Office 510 663 4153
Cell 510 703 5696

Andy Lojo

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

# COMPLIANCE & ENFORCEMENT DIVISION

**Notification Form**

**Regulation 8 Rule 40**

**REMOVAL OF UNDERGROUND STORAGE TANKS *OR* TREATMENT OF CONTAMINATED SOIL**

## *SITE OF ACTIVITY*

| | | |
|---|---|---|
| **Site Address:** 7544 Dublin Boulevard | **City & Zip:** Dublin, 94568 | **Site#:** |
| **Specific Location of Project within Address:** Service Area 2, oil water separator sump, and FE pit | | |
| **Owner/Operator:** Crown Chevrolet | | |

**Check any that apply (400 numbers refer to regulation section requiring reporting):**

- ☐ Tank Removal or Replacement ***(401)***
- ☑ Contaminated Soil Excavation and Removal ***(402)***
- ☐ Aeration of Soil < 50 ppmw organic content, but does not meet Section 118 Exemption ***(403)***
- ☐ Section 114 Exempt; Date Pipeline Leak ***Started:*** ____________ Vol. Of Soil: ____________ ***(403)***
- ☐ Section 115 Exempt; Date Contamination Unrelated to UST Activities ***Discovered:*** ____________ ***(405)***

***If only Tank Removal is selected, attach results showing soil is not contaminated***

## *CONTRACTOR INFORMATION*

| | | |
|---|---|---|
| **Name:** Pacific States Environmental | **Site Contact:** Gary Overton | **Phone:** 925 361-1427 |
| **Address:** 11555 Dublin Boulevard, Dublin, Ca. 94568 | | |

## *TANK REMOVAL* *(Section 401)*

| | |
|---|---|
| **Scheduled Start Date:** | **Number and Size of Tank(s):** none |

**Explain Methods of:**

Piping drainage or flushing ***(310.1)*** ____________

Liquid and sludge removal ***(310.2)*** ____________

**Vapor removal *(310.3)*** **[Check One]** ☐ Water Displacement ☐ Vapor Freeing* ☐ Ventilation*

* Emission controls required for vapor freeing or ventilation if tank size greater than 250 gallons.

***COMPLETE INFORMATION BELOW OR ATTACH SAMPLE RESULTS SHOWING SOIL IS UNCONTAMINATED (310.4)***

## *CONTAMINATED SOIL EXCAVATION AND REMOVAL* *(Section 402)*

| | |
|---|---|
| **Scheduled Start Date:** October 17, 2011 | **Scheduled Completion Date:** November 11, 2011 |

**Purpose of Excavation:** Removal of VOC affected soil, and groundwater

**Quantity of Soil:** 320 cubic yards **Organic Content & Type:** VOCs to 100ppm, mostly chloroben

**Methods used to quantify and analyze soil:** EPA Method 8260

**Method of Stockpile Control *(304-306)***

☐ Water Spray ☑ Covered ☐ Vapor Suppressant (List Material Used): ____________

**Method of Site Closure *(306)***

☐ Backfilled ☑ Contaminated Soil Removed

☐ Onsite Treatment (Describe): ____________ A/C or P/O #: ____________

**Loaded Trucks Covered? *(306.2)*** ☑ Yes ☐ No

## *AERATION OF SOIL < 50 PPMW ORGANIC CONTENT* *(Section 403)*

You must submit a Permit Application and Risk Screening Analysis *(Forms will be sent to you)*

## *FOR BAAQMD USE ONLY*

| | | | | | |
|---|---|---|---|---|---|
| Fax/PM Date: | By: | Disp to I#: | Area: | Date: | By: |
| Inv Req Date: | By: | Fwd to Supv. | | Date: | By: |

***See Page Two to Complete This Form***

1127302-1 0028 09/30/2011 002 24
Permit Real Time 003568 $124.00

# CITY OF DUBLIN
## Building Permit

Permit No.: **BLDG-2011-01392**

Application Date: **09/30/2011**

Issue Date:

Permit Type: **REVISIONS / DEFERRED SUBMITTAL**

**Inspection Requests Require 24 Hour Notice**
**BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630**

**Site Address:** 7544 DUBLIN BLVD
DUBLIN CA 94568-2902

**Parcel / APN:** 941-1500-015-09

**Owner:** COSTELLO TERRI TR
**Address:** 571 HARTZ AVE
DANVILLE CA 94568

**Phone:**
**Fax:**

**Contractor:** PACIFIC STATES ENVIRONMENTAL C
**Address:** 11555 DUBLIN BLVD
1ST FL
DUBLIN, CA 94568-2854
**Contact:** ROBERT MC CARRICK

**Phone:** (925) 803-4333
**Fax:**
**Lic. Exp. Date:** 09/30/2012
**Business Lic#:** BL-003899
**Phone:** (925) 803-4333

**Description:** Adding an additional excavation pit.

**SUPPLEMENTAL INFORMATION:**

| | |
|---|---|
| Contact Name | Gary Overton |
| Contact Phone | 925-361-1427 |
| BUILDING PLAN CHECK HOURS | 1 |

**FEES:**

| | |
|---|---|
| REVISION / DEFER INITIAL FEE | 124.00 |

TOTAL FEES: **124.00**

**CITY OF DUBLIN**
**Building Permit**

Permit No.: **BLDG-2011-01392**

Application Date: **09/30/2011**
Issue Date: **10/07/2011**

Permit Type: **REVISIONS / DEFERRED SUBMITTAL**

**Inspection Requests Require 24 Hour Notice**
**BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630**

**Site Address:** 7544 DUBLIN BLVD
DUBLIN CA 94568-2902

**Parcel / APN:** 941-1500-015-09

**Owner:** COSTELLO TERRI TR
**Address:** 571 HARTZ AVE
DANVILLE CA 94568

**Phone:**
**Fax:**

**Contractor:** PACIFIC STATES ENVIRONMENTAL C
**Address:** 11555 DUBLIN BLVD
1ST FL
DUBLIN, CA 94568-2854
**Contact:** ROBERT MC CARRICK

**Phone:** (925) 803-4333
**Fax:**
**Lic. Exp. Date:** 09/30/2012
**Business Lic#:** BL-003899
**Phone:** (925) 803-4333

**Description:** Adding an additional excavation pit.

**SUPPLEMENTAL INFORMATION:**

| | |
|---|---|
| Contact Name | Gary Overton |
| Contact Phone | 925-361-1427 |
| BUILDING PLAN CHECK HOURS | 2 |

**FEES:**

| | |
|---|---|
| REVISION / DEFER INITIAL FEE | 124.00 |
| BLDG ADDITIONAL PC HRS | 124.00 |

TOTAL FEES: **248.00**

# CITY OF DUBLIN
## Building Permit

Permit No.: **BLDG-2011-00835**

Application Date: **06/27/2011**
Issue Date: **08/19/2011**

Permit Type: **Commercial Alteration / Tenant Improvement**

**Inspection Requests Require 24 Hour Notice**
**BLD (925) 833-6620   FIRE (925) 833-6606   PUBLIC WORKS (925) 833-6630**

**Site Address:** 7544 DUBLIN BLVD
DUBLIN CA 94568-2902

**Valuation: $** 140,380.00
**Parcel / APN:** 941-1500-015-09

**Owner:** COSTELLO TERRI TR
**Address:** 571 HARTZ AVE
DANVILLE CA 94568

**Phone:**
**Fax:**

**Contractor:** PACIFIC STATES ENVIRONMENTAL C
**Address:** 11555 DUBLIN BLVD
1ST FL
DUBLIN, CA 94568-2854
**Contact:** ROBERT MC CARRICK

**Phone:** (925) 803-4333
**Fax:**
**Lic. Exp. Date:** 09/30/2011
**Business Lic#:** BL-003899
**Phone:** (925) 803-4333

**Description:** Excavation and removal of existing sump and contaminated material.

**SUPPLEMENTAL INFORMATION:**

| | |
|---|---|
| SQUARE FOOTAGE | 150 |
| FIRE SPRINKLERS | 13 |
| OCCUPANCY TYPE | STORAGE S-1 |
| OCCUPANT LOAD | 0 |
| BUILDING CODE CYCLE | 2010 |
| CONSTRUCTION TYPE | TYPE 5B |
| Contact Name | Gary Overton |
| Contact Phone | 925-872-6312 |
| TENANT NAME | AMEC Geomatrix |
| TENANT PHONE | 510-663-4141 |
| PRE PLAN CHECK VALUATION | 140380 |

**FEES:**

| | |
|---|---|
| PLAN CHECK FEE | 884.00 |
| PW - PERMIT PC BLDG REFERRAL | 220.00 |
| Plan Storage Fee | 10.00 |
| GREEN BUILDING FEE - STATE | 6.00 |
| FIRE NEW BLDG CONST INSPECTION | 150.00 |
| FIRE NEW BLDG CONST PLAN CHECK | 100.00 |
| BUILDING PERMIT FEE | 1,326.00 |
| SMIP - Commercial | 29.48 |
| C&D Compliance Fee Comm | 630.00 |

TOTAL FEES: **3,355.48**

CITY OF DUBLIN • BUILDING & SAFETY DIVISION

100 Civic Plaza, Dublin, California 94568

Website: http://www.dublin.ca.gov
Phone: (925) 833-6620
Fax: (925) 833-6628

July 06, 2011

FINAL REVIEW
BLDG2011-00835

Gary Overton
Pacific States Environmental Contractors
(925)663-4141

**Re: Plan Review: Excavation and removal of existing sump & contaminated material**
**Sump to be reconnected at same location**
**Address: 7544 Dublin Blvd**

Dear Applicant:

The City of Dublin has completed a final review of the following documents:

1. Plans: One (1) site plan.

2. Documents.: One (1) copy each. Geotechnical Report by Cornerstone Earth Group, Concrete mix, etc. by Cemex, Cement test report by Lehigh, Other information by W.R. Grace & Co., Oil Separator specification sheet of oil water separator utility vault by Oldcastle Precast & slab repair page.

These documents were reviewed only for their conformance to the 2010 California Building, Mechanical, Plumbing, and 2008 Energy Codes. (i.e., 2009 I.B.C., 2009 U.M.C., AND 2009 U.P.C. as amended by the State of California), and the 2010 California Electrical Code (2008 N.E.C. as amended by the State of California) unless otherwise noted.
**Please note that our review has been completed and we have no comments, however, we bring the following to your attention:**

**Applicant to fill out deferred submittal form to indicate that information of the company to haul and receive the contaminated soils are approved for this service will be submitted to the building dept. for review before any soil is removed from the site.**

Sincerely,

Greg Shriver
Consultant Plan Check Engineer
City of Dublin
Dublin, Ca. 94568

**City of Dublin**
Building and Safety Division
100 Civic Plaza, Dublin, CA 94568
(925) 833-6620
www.ci.dublin.ca.us

# INSPECTION RECORD

**Permit Number:** BLDG-2011-00835
**Permit Type:** Commercial Alteration / Tenant Improvement
**Issue Date:** 08/19/2011
**Date Printed:** 08/19/2011

**FOR NEXT BUSINESS DAY INSPECTION CALL BY 4:00 PM, M-F**

**POST THIS CARD AT OR NEAR FRONT OF BUILDING**

| | | |
|---|---|---|
| **Building Address** | **7544 DUBLIN BLVD** | |
| **Owner Name and Address** | COSTELLO TERRI TR<br>571 HARTZ AVE<br>DANVILLE, CA 94568 | Phone:<br>Fax: |
| **Contractor Name and Address** | PACIFIC STATES<br>ENVIRONMENTAL C<br>11555 DUBLIN BLVD | Phone: (925) 803-4333<br>Fax: (925) 803-4334 |
| **State Lic. & Classif.** | 723241 a | City Lic. #: BL-003899 |

**Proposed Construction:**
Excavation and removal of existing sump and contaminated material.

| Tract | Lot | Liv. Sq. Ft. | Garage Sq. Ft. | Plan |
|---|---|---|---|---|
| | | 150 | | |

| Building | Date | Insp. Status |
|---|---|---|
| UNDERGROUND PLUMBING | | |
| UNDER GROUND ELECTRICAL | | |
| FOUNDATION / PIERS / SLAB | | |
| FIRE SPRINKLERS - FIRE PREVENTIC | | |
| ROUGH PLUMBING | | |
| ROUGH MECHANICAL | | |
| ROUGH ELECTRICAL | | |
| ROUGH FRAME | | |
| WALL INSULATION | | |
| DRYWALL 1ST LAYER | | |
| GAS TEST | | |
| CEILING OR ROOF INSULATION | | |
| ABOVE CEILING PLUMBING | | |
| ABOVE CEILING ELECTRICAL | | |
| ABOVE CEILING MECHANICAL | | |
| ABOVE CEILING FRAMING | | |
| T-BAR GRID | | |
| ELECTRICAL METER RELEASE | | |
| ENERGY REPORTS | | |
| FINAL DSRSD 925-828-0515 | | |
| FINAL POLICE 925-833-6686 | | |
| FINAL PUBLIC WORKS 925-833-6630 | | |
| FINAL PLANNING 925-833-6610 | | |
| FINAL FIRE PREVENTION 925-833-660 | | |
| FINAL PLUMBING | | |
| FINAL MECHANICAL | | |
| FINAL ELECTRICAL | | |
| FINAL BUILDING | | |
| GAS METER RELEASE | | |
| OCCUPANCY GRANTED | | |
| PERMIT FINAL | | |

**PLANS APPROVED BY**
**As Required**

# JOB SITE COPY

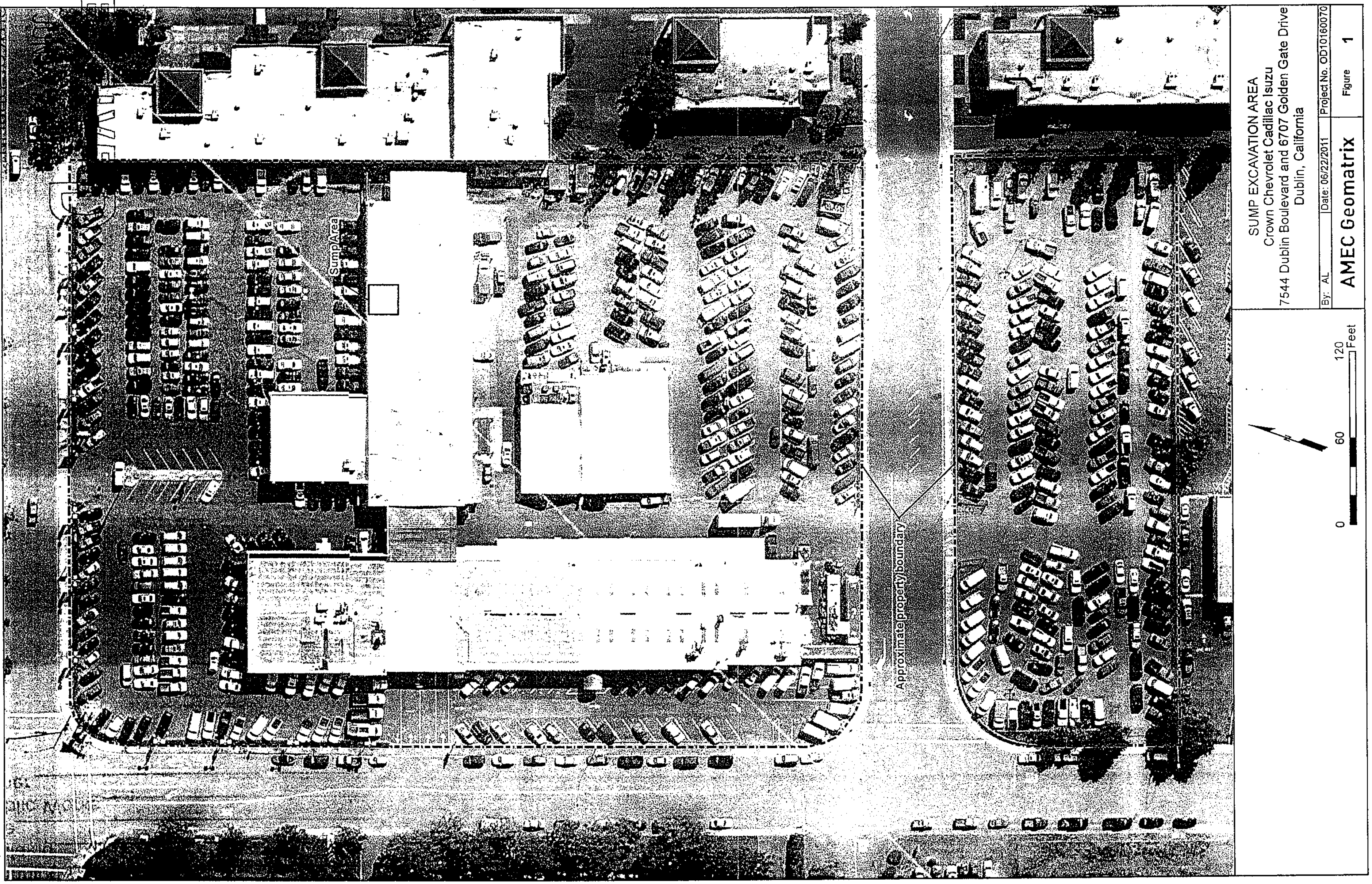
| | | Date |
|---|---|---|
| 1. Planning | KB | 6-28-11 |
| 2. Building | GS | 7-6-11 |
| 3. Fire | | |
| 4. Public Works | FN | 7-28-11 |
| 5. Other | JS/LSD | 7-25-11 |

APPROVED
CITY OF DUBLIN
BUILDING INSPECTION DEPARTMENT
CONSTRUCTION SHALL NOT BE CHANGED FROM WHAT IS SHOWN ON THIS PLAN UNLESS AUTHORIZED BY THE BUILDING OFFICIAL. THIS PLAN SHALL BE KEPT AT THE BUILDING SITE FOR USE BY THE BUILDING INSPECTOR. DO NOT MARK OF ALTER.
THIS APPROVAL SHALL NOT BE INTERPRETED TO BE AN APPROVAL TO VIOLATE ANY PROVISIONS OF THE CITY OF DUBLIN BUILDING REGULATIONS OR ZONING ORDINANCE.

BY ______ DATE 7-25-11

**Submit the name and information on the hauler and receiver of the contaminated soils showing that they are qualified to haul and store the contaminated soils to the Building Dept. for review and approval before any soil is removed from the site.**






File path: S:\OD10160070\task_0000511_0622_seal_fig_01.mxd; Date: 06/22/2011; By: kristin.uber

36

**Plan Review Comments:** 833-6620

DUE: 07/12/11

# BUILDING

1st Check Plan Check # BLDG-2011-00835

| | | | | | |
|---|---|---|---|---|---|
| Job Address: | 7544 Dublin Bl-Auto Dealership | | | Valuation: $140,380.00 | Bin#: File |
| Job Description: | Commercial Alteration-Excavate and removal of existing sump and contaminated soil | | | | |
| First Plan Check Date | 6/27/11 | Date: | | By: | ❑ Not Approved |
| Resubmittal 2 Date: | | | | By: | ❑ Not Approved |
| Resubmittal 3 Date: | | | | By: | ❑ Not Approved |
| Resubmittal 4 Date: | | | | By: | ❑ Not Approved |
| Resubmittal 5 Date: Plans Approved By: | | | | Date: | 7/6/11 |

Plans reviewed as: Type of Const. VB Occ. Type S-1 Imperv. Sq. Ft. — A/C — Occ. Load 0

Fire Sprinklers: ❑ Required ☒ Existing ❑ Not Required ❑ Not Applicable Sq. Footage 150

Parcel in Flood Zone? ❑ A ❑ B ❑ C ❑ Other ____ ☒ Not Applicable

Elevation Survey required? ___Yes ✓ No Reviewed By:____

**Geotechnical Review?** NA Yes ___No @___ hours

Forms needed before issuance of bldg. Permit: ___Wildfire Management Zone ___Special Inspection Form ___Hazardous Material Disclosure Statement ___Commercial/Residential Security Requirements ___Waste Management Plan packet (100K and over) ___Approved ___Deny Plan Check

ADDITIONAL DEPARTMENT COORDINATION:

| ITEM | DEPT | DATE RESOLVED | ACTION TO RESOLVE COMMENTS |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |

PLAN REVIEW COMMENTS:

**Plan Review Comments:** 833-6610

# PLANNING

DUE: 07/12/11

Kristi

1st Check Plan Check # BLDG-2011-00835

| | | | | | |
|---|---|---|---|---|---|
| Job Address: | 7544 Dublin Bl-Auto Dealership | | | Valuation: $140,380.00 | Bin#: File |
| Job Description: | Commercial Alteration-Excavate and removal of existing sump and contaminated soil | | | | |
| First Plan Check Date | 6/27/11 | Date: | | By: | | ☐ Not Approved |
| Resubmittal 2 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 3 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 4 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 5 Date: Plans Approved By: | | | | Date: | | |

Plans Approved: ☒ Without further comment ☐ With conditions listed By: 13 Date: 6/28/11

ADDITIONAL DEPARTMENT COORDINATION:

| ITEM | DEPT | DATE RESOLVED | ACTION TO RESOLVE COMMENTS |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |

PLAN REVIEW COMMENTS:

RECEIVED
JUN 28 2011
DUBLIN PLANNING

Permit No.: **BLDG-2011-00835**

# CITY OF DUBLIN
## Building Permit

Application Date: **06/27/2011**
Issue Date: **08/19/2011**

Permit Type: **Commercial Alteration / Tenant Improvement**

**Inspection Requests Require 24 Hour Notice**
**BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630**

**Site Address:** 7544 DUBLIN BLVD
DUBLIN CA 94568-2902

**Valuation: $** 140,380.00
**Parcel / APN:** 941-1500-015-09

**Owner:** COSTELLO TERRI TR
**Address:** 571 HARTZ AVE
DANVILLE CA 94568

**Phone:**
**Fax:**

**Contractor:** PACIFIC STATES ENVIRONMENTAL C
**Address:** 11555 DUBLIN BLVD
1ST FL
DUBLIN, CA 94568-2854
**Contact:** ROBERT MC CARRICK

**Phone:** (925) 803-4333
**Fax:**
**Lic. Exp. Date:** 09/30/2011
**Business Lic#:** BL-003899
**Phone:** (925) 803-4333

**Description:** Excavation and removal of existing sump and contaminated material.

**SUPPLEMENTAL INFORMATION:**

| | |
|---|---|
| SQUARE FOOTAGE | 150 |
| FIRE SPRINKLERS | 13 |
| OCCUPANCY TYPE | STORAGE S-1 |
| OCCUPANT LOAD | 0 |
| BUILDING CODE CYCLE | 2010 |
| CONSTRUCTION TYPE | TYPE 5B |
| Contact Name | Gary Overton |
| Contact Phone | 925-872-6312 |
| TENANT NAME | AMEC Geomatrix |
| TENANT PHONE | 510-663-4141 |
| PRE PLAN CHECK VALUATION | 140380 |

**FEES:**

| | |
|---|---|
| PLAN CHECK FEE | 884.00 |
| PW - PERMIT PC BLDG REFERRAL | 220.00 |
| Plan Storage Fee | 10.00 |
| GREEN BUILDING FEE - STATE | 6.00 |
| FIRE NEW BLDG CONST INSPECTION | 150.00 |
| FIRE NEW BLDG CONST PLAN CHECK | 100.00 |
| BUILDING PERMIT FEE | 1,326.00 |
| SMIP - Commercial | 29.48 |
| C&D Compliance Fee Comm | 630.00 |

TOTAL FEES: **3,355.48**

From: Greg Shriver

Sent: Wednesday, July 13, 2011, 9:15 am

To: Gary Overton

Cc: Gregory Shreeve

Subject: Auto Dealership Plan Review
BLDG 201100835

Attachments: 7544 Dublin Blvd - 1st check comments

Please find attached the plan check comments from 7544 Dublin Blvd -auto Dealership. When you have revised the plans, please resubmit to the Building Division front counter Monday through Friday between 8am and 5pm. If you have any questions about these comments, please contact each department directly.

Thank you,

Greg Shriver
Consultant Plan Review Engineer
Community Development Dept.
City of Dublin
100 Civic Plaza
Dublin, CA. 94568
(925)833-6620
(925)833-6628 fax
greg.shriver@dublin.ca.gov

NP

1127302-1 0028 09/30/2011 002 24
Permit Real Time 003568 $124.00

**CITY OF DUBLIN**
**Building Permit**

Permit No.: **BLDG-2011-01392**

Application Date: **09/30/2011**
Issue Date:

Permit Type: **REVISIONS / DEFERRED SUBMITTAL**

**Inspection Requests Require 24 Hour Notice**
**BLD (925) 833-6620    FIRE (925) 833-6606    PUBLIC WORKS (925) 833-6630**

**Site Address:** 7544 DUBLIN BLVD
DUBLIN CA 94568-2902

**Parcel / APN:** 941-1500-015-09

**Owner:** COSTELLO TERRI TR
**Address:** 571 HARTZ AVE
DANVILLE CA 94568

**Phone:**
**Fax:**

**Contractor:** PACIFIC STATES ENVIRONMENTAL C
**Address:** 11555 DUBLIN BLVD
1ST FL
DUBLIN, CA 94568-2854
**Contact:** ROBERT MC CARRICK

**Phone:** (925) 803-4333
**Fax:**
**Lic. Exp. Date:** 09/30/2012
**Business Lic#:** BL-003899
**Phone:** (925) 803-4333

**Description:** Adding an additional excavation pit.

**SUPPLEMENTAL INFORMATION:**

| | |
|---|---|
| Contact Name | Gary Overton |
| Contact Phone | 925-361-1427 |
| BUILDING PLAN CHECK HOURS | 1 |

**FEES:**

| | |
|---|---|
| REVISION / DEFER INITIAL FEE | 124.00 |

TOTAL FEES: **124.00**

**CITY OF DUBLIN**
**Building Permit**

Permit No.: **BLDG-2011-01392**

Application Date: **09/30/2011**
Issue Date: **10/07/2011**

Permit Type: **REVISIONS / DEFERRED SUBMITTAL**

**Inspection Requests Require 24 Hour Notice**
**BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630**

**Site Address:** 7544 DUBLIN BLVD
DUBLIN CA 94568-2902

**Parcel / APN:** 941-1500-015-09

**Owner:** COSTELLO TERRI TR
**Address:** 571 HARTZ AVE
DANVILLE CA 94568

**Phone:**
**Fax:**

**Contractor:** PACIFIC STATES ENVIRONMENTAL C
**Address:** 11555 DUBLIN BLVD
1ST FL
DUBLIN, CA 94568-2854
**Contact:** ROBERT MC CARRICK

**Phone:** (925) 803-4333
**Fax:**
**Lic. Exp. Date:** 09/30/2012
**Business Lic#:** BL-003899
**Phone:** (925) 803-4333

**Description:** Adding an additional excavation pit.

**SUPPLEMENTAL INFORMATION:**

| | |
|---|---|
| Contact Name | Gary Overton |
| Contact Phone | 925-361-1427 |
| BUILDING PLAN CHECK HOURS | 2 |

**FEES:**

| | |
|---|---|
| REVISION / DEFER INITIAL FEE | 124.00 |
| BLDG ADDITIONAL PC HRS | 124.00 |

TOTAL FEES: **248.00**

CORNERSTONE
EARTH GROUP

Date: June 24, 2011
Project No.: 319-2-1

Prepared For: Mr. Peter Timmerman
**PACIFIC STATES ENVIRONMENTAL CONTRACTORS**
11555 Dublin Blvd.
Dublin, California 94568

Re: Geotechnical Consultation
Crown Chevrolet Sump Excavation
7544 Dublin Boulevard
Dublin, California

Dear Mr. Timmerman:

As requested, this letter presents the results of our geotechnical review of the proposed sump excavation proposed for the above referenced project. Our services were performed in accordance with our agreement dated June 20, 2011.

For our review, we received the following documents:

- A document titled, "Sump Remediation Work Plan, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, CA," prepared by AMEC Geomatrix dated April 18, 2011.

- A document titled, "Request for Proposal to Implement Sump Remediation Activities, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard and 6707 Golden Gate Drive, Dublin, CA," prepared by AMEC Geomatrix dated May 18, 2011.

- A set of building plans titled, "New Sales and Service Facility for Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1968.

- A set of building plans titled, "Proposed New Showroom and Remodel of Existing Facilities, Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1994.

## Project Background

The project will consist of excavating impacted soil from within the interior of the former auto service building. The scope of work was summarized in the Sump Remediation Work Plan prepared by AMEC Geomatrix, which included plan and cross section views of the proposed sump excavation area. The work plan also included soil boring and Cone Penetration Test logs performed by AMEC and others around the sump area. The existing sump is reportedly 2.5 by 5 feet in plan and extends approximately 3.5 feet below the existing floor level. Pacific States Environmental proposes to remove a portion of the existing concrete slab-on-grade, remove the existing concrete sump, and excavate impacted soil from around the sump to a maximum depth of approximately 16 feet. The minimum lateral dimensions of the excavation area are reported to be approximately 10 by 15 feet.

Due to the proximity of existing interior walls and exterior walls or columns relative to the proposed excavation, Pacific States proposes to excavate the soil in narrow sections (slots) approximately 18 inches wide. The slots will be excavated in an alternating pattern to reduce the potential for settlement or lateral movement of the adjacent foundations and existing slab-on-grade, and to reduce the potential for sidewall instability. The slot excavations will reportedly be backfilled with a Controlled Density Fill (CDF) and capped with compacted based material. We understand that temporary shoring for the excavation or underpinning for the existing building are not proposed or anticipated at this time.

Our services were limited to reviewing the proposed excavation plan based on available subsurface data collected at the site by others, reviewing the existing foundation plans, and providing supplemental recommendations regarding the proposed excavation phasing plan, as summarized below.

## Site Conditions

Based on our review of the building plans, the existing steel-frame building is supported by exterior steel columns and roof beams spaced at approximately 24 feet on center. The roof beams span the entire width of the building, so no interior columns are present. The exterior columns are supported on isolated spread footings approximately 5½ to 7 feet long and 21 inches wide. Interior footings for the interior wall adjacent to the sump (former exterior wall) are approximately 18 inches wide by 30 inches long and support interior pipe columns. Footings were reportedly designed in accordance with the 1961 Uniform Building Code for a maximum allowable bearing pressure of 1,500 pounds per square foot. Interior and exterior walls are supported on thickened concrete edges or pads approximately 12 wide by 12 inches thick.

Based on our review of the boring and CPT data previously collected by others, the sump structural section consists of the approximately 4- to 6-inch-thick existing concrete slab-on-grade underlain by up to 3 inches of aggregate base. The slab section is underlain by 3 to 5 feet of undocumented fill consisting of medium dense clayey sand and stiff sandy lean clay. The fill is underlain by native alluvial soil consisting of medium stiff to stiff silty clay and lean clay with sand to the maximum depth explored at 20 feet. The stiffness of the native clay appeared to decrease at a depth of approximately 11 to 15 feet, which corresponds to the increase in moisture near the ground water level.

Ground water was previously encountered by others at depths ranging from approximately 12 to 14 feet below the main floor level.

## Recommendations

Based on our review of the available subsurface data and our understanding of the proposed sump excavation, from a geotechnical viewpoint, the proposed phased sump excavation is suitable and temporary shoring will not be required. The primary geotechnical concern is the potential for lateral movement of the existing exterior column footing that could occur if the entire excavation were to be performed simultaneously or if the excavation were to be left open for a long period of time. Since a phased, narrow slot approach is to be utilized for the sump excavation project, in our opinion, the potential for lateral foundation movement should be adequately mitigated. We recommend that the sump excavation and backfilling consider the following items:

1. The width of each slot excavation adjacent to interior and exterior walls should be limited to no more than 18 inches when the edge of the excavation is located within 5 feet of a footing or wall.
2. The edge of slot excavations that are greater than 5 feet from an existing wall or footing should be no greater than 5 feet wide, as measured parallel to the wall or footing.
3. Slot excavations that extend up to the edge of the existing 18 by 30 inch pipe column footing should not be made directly in front of the footing, but should be offset so that no more than one-half the footing is exposed at any time.
4. Existing footings, if exposed, should not be undermined during excavation.
5. Slot excavations should be separated by at least 36 inches (measured from edge to edge of adjacent trenches) of undisturbed soil or previously placed CDF that has cured at least 24 hours. Slot trenches should not be cut adjacent to CDF that has cured less than 24 hours. Depending on the CDF mix design, it may be necessary to increase the cure time of the CDF, especially below the ground water table.
6. Slot excavations should be performed and backfilled on the same day to reduce the potential for lateral soil movement.
7. Due to presence of shallow ground water, the excavation may be susceptible to minor localized sloughing or caving. Therefore, Pacific States should be prepared to temporarily stabilize or backfill excavations if excessive sloughing or caving soils are encountered.
8. If ground water cannot be removed from the trenches prior to placing CDF, the CDF should be placed by tremie methods to keep the water from mixing with the CDF.
9. If existing footing edges are exposed, CDF should be used to backfill up to at least 3 inches above the bottom of the footing.
10. A pre-construction survey and/or photo-documentation of the existing facility should be performed prior to beginning the excavation.
11. If shallow sloughing or caving occurs beneath existing slab-on-grade or footing areas due to raveling of dry, cohesionless soils (e.g. underslab granular base or undocumented fill), the voids should be adequately backfill with CDF or other compacted fill material to reduce the potential for future settlement. This may require cutting the existing slab-on-grade back further and sloping the upper 3 to 5 feet of the excavation back at 1:1 (horizontal:vertical).
12. Due to potential variable subsurface conditions in the excavation area, modifications to the phased excavation plan may be required in the field during construction based on actual conditions encountered.
13. Construction personnel should not enter the slot excavations at any time unless temporary shoring is first installed in accordance with applicable OSHA requirements.

## Closure

We hope this provides the information you need at this time. Recommendations presented in this letter have been prepared for the sole use of Pacific States Environmental Contractors specifically for the property at 7544 Dublin Boulevard in Dublin, California. Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices at this time and location. No warranties are either expressed or implied.

If you have any questions or need any additional information from us, please call and we will be glad to discuss them with you.

Sincerely,

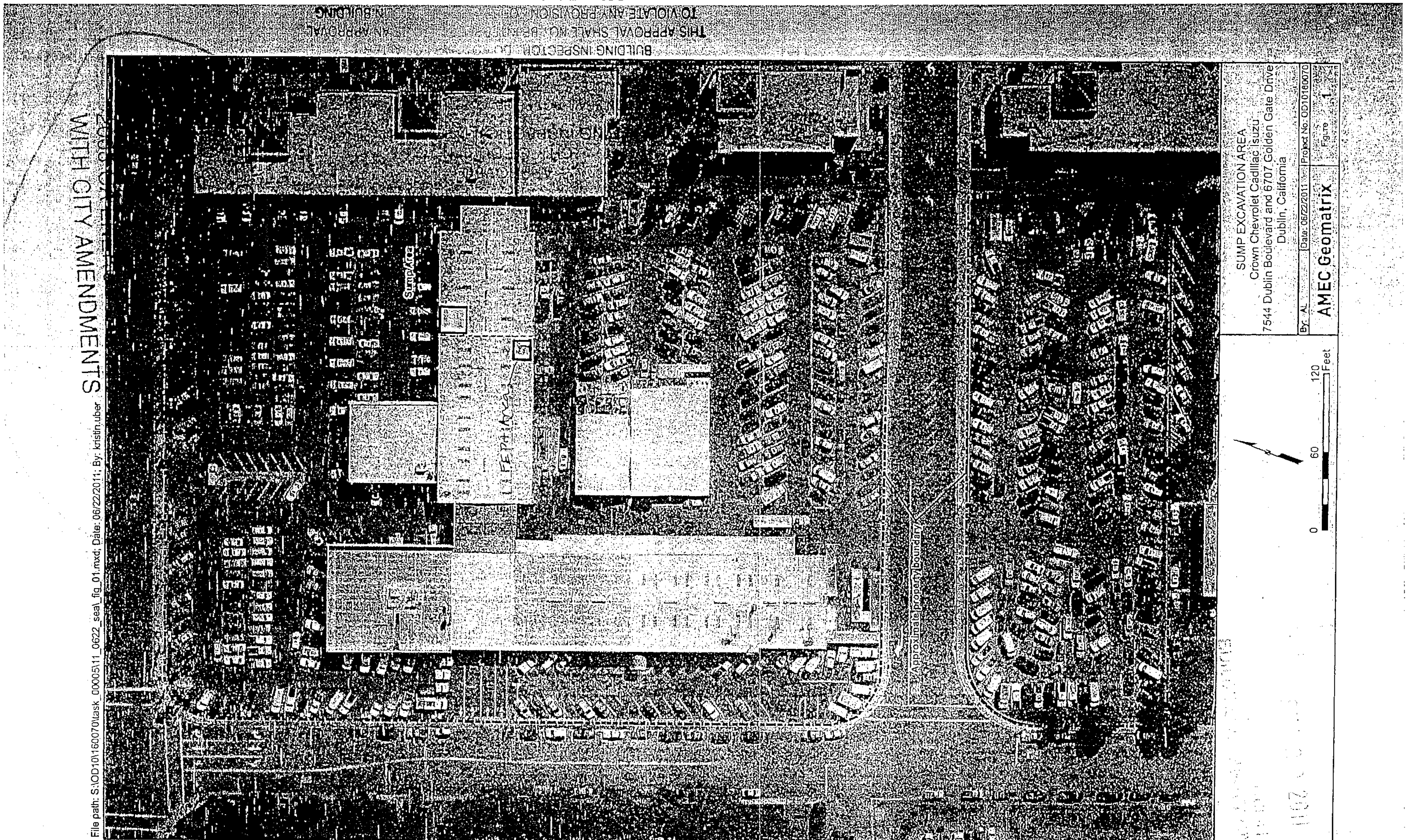
**Cornerstone Earth Group, Inc.**

John R. Dye, P.E., G.E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
JOHN R. DYE
No. GE2582
EXPIRES 12/31/12
GEOTECHNICAL
STATE OF CALIFORNIA

LCK:JRD

Copies: Addressee (1 by email)




**BUILDING DEPT 1 CHK 2 OF 2**
**BIN NUMBER** F?2 **PC#** 1101392

**JOB SITE COPY**

CORNERSTONE
EARTH GROUP

| | |
|---|---|
| Date: | September 29, 2011 |
| Project No.: | 319-2-1 |
| Prepared For: | Mr. Gary Overton<br>**PACIFIC STATES ENVIRONMENTAL CONTRACTORS**<br>11555 Dublin Blvd.<br>Dublin, California 94568 |
| Re: | Geotechnical Consultation<br>Crown Chevrolet Front End Pit Excavation<br>7544 Dublin Boulevard<br>Dublin, California |

RECEIVED
SEP 30 2011
CITY OF DUBLIN
BUILDING & SAFETY DIVISION

Dear Mr. Overton:

As requested, this letter presents the results of our supplemental geotechnical review of the proposed Front End (FE) Pit excavation proposed for the above referenced project. Our services were performed in accordance with our agreement dated September 28, 2011. As you know, we provided geotechnical consultation services for the sump excavation and presented our findings in our letter dated June 24, 2011.

For our review, we received the following documents:

- A document titled, "FE Pit Excavation Plan, Crown Chevrolet Cadillac Isuzu, 7544 Dublin Boulevard, Dublin, CA," prepared by AMEC dated September 21, 2011.

Previous documents reviewed as part of our evaluation of the FE Pit excavation included:

- Miscellaneous boring and Cone Penetration Test logs from various locations within the existing building performed AMEC and others.
- A set of building plans titled, "New Sales and Service Facility for Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1968.
- A set of building plans titled, "Proposed New Showroom and Remodel of Existing Facilities, Crown Chevrolet, Dublin, CA," prepared by CSB Construction Inc. dated February 1994.

## Project Background

The project will consist of excavating impacted soil from within the interior of the former auto service building, which will also include the former FE Pit area in addition to the sump pit area. The excavation plan prepared by AMEC included plan and cross section views of the proposed FE Pit excavation area. The FE pit originally consisted of a 12 by 14 foot by 4 foot deep concrete pit. The pit was reportedly abandoned and backfilled with pea gravel and topped with a 6 inch thick concrete slab. We understand that Pacific States Environmental will remove the 6 inch slab and a portion of the surrounding concrete slab-on-grade, remove the existing FE Pit backfill, and excavate impacted soil from below the FE pit to a maximum depth of approximately

12 feet. The minimum lateral dimensions of the excavation area are anticipated to be approximately 14 by 15 feet.

Due to the proximity of existing interior walls and exterior walls or columns relative to the proposed excavation, we understand that Pacific States proposes to excavate the soil in narrow sections (slots) approximately 18 inches wide, similar to the methodology proposed for the nearby sump pit excavation. The slots will be excavated in an alternating pattern to reduce the potential for settlement or lateral movement of the adjacent foundations and existing slab-on-grade, and to reduce the potential for sidewall instability. The slot excavations will reportedly be backfilled with a Controlled Density Fill (CDF) and capped with compacted based material. We understand that temporary shoring for the excavation or underpinning for the existing building are not proposed or anticipated at this time.

Our services were limited to reviewing the proposed excavation plan based on available subsurface data collected at the site by others, reviewing the existing foundation plans, and providing supplemental recommendations regarding the proposed excavation phasing plan, as summarized below.

## Site Conditions

Based on our review of the building plans, the existing steel-frame building is supported by exterior steel columns and roof beams spaced at approximately 24 feet on center. The roof beams span the entire width of the building, so no interior columns are present. The exterior columns are supported on isolated spread footings approximately 5½ to 7 feet long and 21 inches wide. Interior footings for the interior wall adjacent to the FE Pit (former exterior wall) are approximately 18 inches wide by 30 inches long and support interior pipe columns. Footings were reportedly designed in accordance with the 1961 Uniform Building Code for a maximum allowable bearing pressure of 1,500 pounds per square foot. Interior and exterior walls are supported on thickened concrete edges or pads approximately 12 inches wide by 12 inches thick.

Based on our review of the boring and CPT data previously collected by others inside the building, the slab section is generally underlain by 3 to 5 feet of undocumented fill consisting of medium dense clayey sand and stiff sandy lean clay. The fill is underlain by native alluvial soil consisting of medium stiff to stiff silty clay and lean clay with sand to the maximum depth explored at 20 feet. The stiffness of the native clay appeared to decrease at a depth of approximately 11 to 15 feet, which corresponds to the increase in moisture near the ground water level.

Ground water was previously encountered by others at depths ranging from approximately 12 to 14 feet below the main floor level.

## Recommendations

Based on our review of the available subsurface data and our understanding of the proposed FE Pit excavation, from a geotechnical viewpoint, the proposed phased excavation is suitable and temporary shoring will not be required. The primary geotechnical concern is the potential for lateral movement of the existing exterior column footing that could occur if the entire excavation were to be performed simultaneously or if the excavation were to be left open for a long period of time. Since a phased, narrow slot approach is to be utilized for the FE pit excavation, in our opinion, the potential for lateral foundation movement should be adequately mitigated. We recommend that the FE Pit excavation and backfilling consider the following items:

1. The width of each slot excavation adjacent to interior and exterior walls should be limited to no more than 18 inches when the edge of the excavation is located within 5 feet of a footing or wall.
2. The edge of slot excavations that are greater than 5 feet from an existing wall or footing should be no greater than 5 feet wide, as measured parallel to the wall or footing.
3. Slot excavations that extend up to the edge of the existing 18 by 30 inch pipe column footing should not be made directly in front of the footing, but should be offset so that no more than one-half the footing is exposed at any time.
4. Existing footings, if exposed, should not be undermined during excavation.
5. Slot excavations should be separated by at least 36 inches (measured from edge to edge of adjacent trenches) of undisturbed soil or previously placed CDF that has cured at least 24 hours. Slot trenches should not be cut adjacent to CDF that has cured less than 24 hours. Depending on the CDF mix design, it may be necessary to increase the cure time of the CDF, especially below the ground water table.
6. Slot excavations should be performed and backfilled on the same day to reduce the potential for lateral soil movement.
7. Due to presence of shallow ground water, the excavation may be susceptible to minor localized sloughing or caving. Therefore, Pacific States should be prepared to temporarily stabilize or backfill excavations if excessive sloughing or caving soils are encountered.
8. If ground water cannot be removed from the trenches prior to placing CDF, the CDF should be placed by tremie methods to keep the water from mixing with the CDF.
9. If existing footing edges are exposed, CDF should be used to backfill up to at least 3 inches above the bottom of the footing.
10. A pre-construction survey and/or photo-documentation of the existing facility should be performed prior to beginning the excavation.
11. If shallow sloughing or caving occurs beneath existing slab-on-grade or footing areas due to raveling of dry, cohesionless soils (e.g. underslab granular base or undocumented fill), the voids should be adequately backfill with CDF or other compacted fill material to reduce the potential for future settlement. This may require cutting the existing slab-on-grade back further and sloping the upper 3 to 5 feet of the excavation back at 1:1 (horizontal:vertical).
12. Due to potential variable subsurface conditions in the excavation area, modifications to the phased excavation plan may be required in the field during construction based on actual conditions encountered.
13. Construction personnel should not enter the slot excavations at any time unless temporary shoring is first installed in accordance with applicable OSHA requirements.

## Closure

We hope this provides the information you need at this time. Recommendations presented in this letter have been prepared for the sole use of Pacific States Environmental Contractors specifically for the property at 7544 Dublin Boulevard in Dublin, California. Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices at this time and location. No warranties are either expressed or implied.

If you have any questions or need any additional information from us, please call and we will be glad to discuss them with you.

Sincerely,

**Cornerstone Earth Group, Inc.**

John R. Dye, P.E., G.E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
JOHN R. DYE
No. GE2582
EXPIRES 12/31/12
GEOTECHNICAL
STATE OF CALIFORNIA

Copies: Addressee (1 by email)

**DUBLIN SAN RAMON SERVICES DISTRICT**

<> 7051 Dublin Boulevard <> Dublin, CA 94568 <> Phone: (925) 828-0515 <> FAX: (925) 829-1180 <>

# ENGINEERING DEPARTMENT FEE INVOICE FOR CITY OF DUBLIN (water & sewer) & CITY OF SAN RAMON (sewer)

Customer Name: Crown Chevrolet
Address: 7544 Dublin Blvd. Dublin
Attn: Andrew Lojo / Gary Overton
Phone:
FAX:

Permit Number: LCP 11-021
Description/Location: Replacement of grease interceptor and disconnection of sewer and water connections to car wash.

| Description | Qty | Unit Cost | Total Amount | Code Section | For Accounting Use Only |
|---|---|---|---|---|---|
| **PROJECT PLANNING AND REVIEW FEES:** | | | | | |
| Water | | See page 2 | | 3.70.070 | 620.1.320.00 |
| Water and Sewer - Two Services (check below): ☐ Recycled Water ☐ Potable Water ☐ Sewer | | See page 2 | | 3.70.070 | 220/ 620.1.320.00 Split depends on service |
| Sewer - Other | | See page 2 | $2,160.00 | 3.70.070 (B) | 220.1.320.00 |
| Water and Sewer - Three Services | | See page 2 | | 3.70.070 | 220 (25%)/ 620.1.320.00 (75%) |
| Recycled Water - Irrigation System | | See page 2 | | 3.70.070 (A) | 620.1.320.00 |
| **INSPECTION FEES:** | | | | | |
| Sewer: | | | | | |
| Appurtenant structure installation | | See page 2 | | 3.70.070 (B) | 220.1.310.10 |
| New grease interceptor or grease/sand trap | 1 | $305 | $305.00 | 3.70.070 (B) | 220.1.310.10 |
| Repairs or minor alterations | | $245 | | 3.70.070 (B) | 220.1.310.10 |
| Saddle or manhole connection | | $365 | | 3.70.070 (B) | 220.1.310.10 |
| Sewer, house installation | | $245 | | 3.70.070 (B) | 220.1.310.10 |
| Sewer, lateral installation | | $245 | | 3.70.070 (B) | 220.1.310.10 |
| Sewer main (Single or Multiple Reaches w/ TV Inspection) | | See page 2 | | 3.70.070 (B) | 220.1.310.10 |
| Sewer main (Single Reach w/o TV Inspection) - Installation or Repair | | $905 | | 3.70.070 (B) | 220.1.310.10 |
| Sewer main air retest | | $245 | | 3.70.070 (B) | 220.1.310.10 |
| Sewer MH vacuum retest | | $120 | | 3.70.070 (B) | 220.1.310.10 |
| Water: | | | | | |
| Backflow device | | $245 | | 3.70.070 (A) | 620.1.310.10 |
| Blow-off/air relief valve | | $245 | | 3.70.070 (A) | 620.1.310.10 |
| Fire hydrant installation | | $365 | | 3.70.070 (A) | 620.1.310.10 |
| Fire Service & Backflow Prevention Device | | $700 | | 3.70.070 (A) | 620.1.310.10 |
| Recycled Water Irrigation | | See page 2 | | 3.70.070 (A) | 620.1.310.10 |
| Additional zero pressure test | | $540 | | 3.70.070 (A) | 620.1.310.10 |
| Water line service installation | | $490 | | 3.70.070 (A) | 620.1.310.10 |
| Water main (Bacteriological Testing Required) | | See page 2 | | 3.70.070 (A) | 620.1.310.10 |
| Water main (No Bacteriological Testing) - Installation or Repair | | $905 | | 3.70.070 (A) | 620.1.310.10 |
| Water main bacti retest | | $610 | | 3.70.070 (A) | 620.1.310.10 |
| Water main pressure retest | | $245 | | 3.70.070 (A) | 620.1.310.10 |
| Water tap | | $490 | | 3.70.070 (A) | 620.1.310.10 |
| **CAPACITY RESERVE FEES:** | | | | | |
| Regional Sewer System: | | | | | |
| Single Family Residence | | $14,203 | | 3.70.010 | 10 (13.36%)/ 320.2.220.10 (86.62%) |
| Condominium | | $10,653 | | 3.70.010 | 10 (13.38%)/ 320.2.220.10 (86.62%) |
| Auxiliary Dwelling Unit | | $5,682 | | 3.70.010 | 10 (13.38%)/ 320.2.220.10 (86.62%) |
| All others based on peak month flow, BOD & SS | | See page 2 | | 3.70.010 | 10 (13.36%)/ 320.2.220.10 (86.62%) |
| Local Sewer System: | | | | | |
| Single Family Residence | | $1,710 | | 3.70.010 | 210 (50.7%)/ 220.2.220.10 (49.3%) |
| Condominium | | $1,283 | | 3.70.010 | 210 (50.7%)/ 220.2.220.10 (49.3%) |
| Auxiliary Dwelling Unit | | $684 | | 3.70.010 | 210 (50.7%)/ 220.2.220.10 (49.3%) |
| All others based on peak month flow | | See page 2 | | 3.70.010 | 210 (50.7%)/ 220.2.220.10 (49.3%) |
| Water System: | | | | | |
| DSRSD Water Connection Fees: | | | | | |

| Meter size: | 5/8-inch Equivalent: | Recycled | Potable | Unit Cost | Total Amount | Code Section | For Accounting Use Only |
|---|---|---|---|---|---|---|---|
| 5/8-inch | 1.0 | | | $10,200 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 3/4-inch | 1.5 | | | $15,300 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 1-inch | 2.5 | | | $25,500 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 1-1/2-inch | 5.0 | | | $51,000 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 2-inch | 8.0 | | | $81,600 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 3-inch | 17.5 | | | $178,500 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 4-inch | 50.0 | | | $510,000 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |
| 6-inch | 100.0 | | | $1,020,000 | | 3.70.010 | 10 (25.76%)/ 620.2.210.00 (74.24%) |

| Description | Qty | Unit Cost | Total Amount | Code Section | For Accounting Use Only |
|---|---|---|---|---|---|
| **WATER METER ASSEMBLY:** | | | | | |
| 5/8-inch water meter | | $338.00 | | 4.40.050 | 620.1.360.00 |
| 3/4-inch water meter | | $492.00 | | 4.40.050 | 620.1.360.00 |
| 1-inch water meter | | $534.00 | | 4.40.050 | 620.1.360.00 |
| 1 1/2-inch water meter - positive displacement | | $768.00 | | 4.40.050 | 620.1.360.00 |
| 2-inch water meter - positive displacement | | $880.00 | | 4.40.050 | 620.1.360.00 |
| 1 1/2-inch water meter - turbo | | $1,214.00 | | 4.40.050 | 620.1.360.00 |
| 3-inch water meter - Compound | | $2,120.00 | | 4.40.050 | 620.1.360.00 |
| **ANNEXATION FEES:** | | | | | |
| Water Annexation (per acre) | | $11.74 | | 2.20.030 | 600.1.330.00 |
| Sewer Annexation (per acre) | | $28.58 | | 2.20.030 | 200.1.330.00 |
| **MISCELLANEOUS FEES:** | | | | | |
| Construction water per 1" residential service line | | $170 | | 4.40.090 | 600.1.150.10 |
| Irrigation System License Fee | | $1,005 | | 4.40.030 | 600.1.370.00 |
| Variance Review | | $1,270 | | 3.70.070 | 200/600.1.420.00 |
| Expiration Extension 5/8-inch equivalent (For Specific Projects Only) | | $1,000 | | 3.70.010 | 10 (23.36%)/ 620.2.210.00 (76.64%) |
| Other Fees | | See page 2 | | 3.70.010 | |
| | | Other Fees Subtotal | | | |

| ZONE 7 FEES: Meter size: | Capacity Factor: | Qty | Unit Cost | Total Amount | Code Section | For Accounting Use Only |
|---|---|---|---|---|---|---|
| 5/8-inch displacement | 1 | | $22,230 | | 3.70.010 | 600.207.25 |
| 3/4-inch displacement | 1.5 | | $33,345 | | 3.70.010 | 600.207.25 |
| 1-inch displacement | 2.5 | | $55,575 | | 3.70.010 | 600.207.25 |
| 1-1/2-inch displacemen | 5 | | $111,150 | | 3.70.010 | 600.207.25 |
| 2-inch displacement | 8 | | $177,840 | | 3.70.010 | 600.207.25 |
| 3-inch compound | 17.5 | | $389,025 | | 3.70.010 | 600.207.25 |
| 1-1/2-inch turbo | 12 | | $266,760 | | 3.70.010 | 600.207.25 |
| 2-inch turbo | 16 | | $355,680 | | 3.70.010 | 600.207.25 |
| 3-inch turbo | 35 | | $778,050 | | 3.70.010 | 600.207.25 |
| 4-inch turbo | 100 | | $2,223,000 | | 3.70.010 | |

PAID
JUL 21 2011
BY:

FORM: FFD 2

Date: 07/20/11
Prepared by: J. Duenas
File: LCP 11-021

TOTAL CHARGES **$2,465.00**

PAY WITHIN 30 DAYS OF DATE OF INVOICE.
SUBJECT TO FEE INCREASE WITHOUT NOTICE AFTER 30 DAYS OF DATE OF INVOICE

**DUBLIN**
**SAN RAMON**
**SERVICES**
**DISTRICT**

7051 Dublin Boulevard
Dublin, CA 94568
FAX 925 829-1180
925 828-0515

**LIMITED CONSTRUCTION PERMIT NO. LC 11 - 021**

The Dublin San Ramon Services District ("DISTRICT"), pursuant to the provisions of Article 2, Chapters 6 & 7 of District Code, hereby grants a Limited Construction Permit ("Permit") to Pacific States Enviromental Contractors Inc ("Permittee") for the purpose of constructing, installing, altering, maintaining or repairing customer facilities proposed to be connected, or already connected, to District water and/or wastewater facilities ("Work") within District at Crown Chevrolet, 7544 Dublin Blvd for grease interceptor and disconnection of sewer and water to car wash.

Permit is granted subject to the following conditions:

1. General Provisions. The Permittee shall comply with and perform all covenants, agreements, and conditions set forth in the attached "General Terms and Conditions for Limited Construction Permits (For Work Performed Solely on Customer Facilities Connected to DSRSD Facilities)," incorporated herein by reference, and the conditions set forth in this permit.
2. Standard Specifications. All work to be done by Permittee shall be performed in accordance with, and subject to, all terms and conditions contained in the District's *Standard Procedures, Specifications and Drawings for Design and Installation of Potable Water, Recycled Water, and Wastewater Utilities* (Standard Specifications) and the plans or drawings approved by the District and by reference herein and made part hereof. Work shall be conducted by an active, duly licensed contractor of the Contractors State License Board of the California Department Consumer Affairs.
3. Liability. Neither District, nor its Board, officers, agents, or employees thereof, shall be held responsible or liable for damage to any person or property whether of Permittee or of any other person, which arises out of the performance of Work.
4. Advanced Request for Inspection. District Inspector requires at least 48 hours notification prior to inspection of work under this permit.
5. Inspection Prior to Backfill. Work will not be accepted by the District unless District Inspector sees and approves all work prior to backfilling.
6. Termination. All rights granted hereunder shall cease and desist in the event the construction of the work referenced to in Application is not commenced by Permittee by August 21, 2011.

**DUBLIN SAN RAMON SERVICES DISTRICT**

By: Jaclyn Yee
Date: 07/21/2011

**Assigned District Construction Inspector:**

| **JEFF HAYES** | | **BUD MAHLER** | |
|---|---|---|---|
| **Office:** | **(925) 875-2259** | **Office:** | **(925) 875-2257** |
| **Cell:** | **(925) 570-9007** | **Cell:** | **(925) 570-9005** |

The undersigned has read and agrees to accept and perform all terms and conditions set forth in Permit, Application, and Plans.

Date: 7/21/2011

By: [signature]
Permittee

**Plan Review Comments:** 828-0515 • FAX: 829-1180

**DSRSD**

DUE: 07/12/11

DUE 7/11/11

1st Check Plan Check # BLDG-2011-00835

| | | | | | | |
|---|---|---|---|---|---|---|
| Job Address: | 7544 Dublin Bl-Auto Dealership | | | Valuation: $140,380.00 | Bin#: File | |
| Job Description: | Commercial Alteration-Excavate and removal of existing sump and contaminated soil | | | | | |
| First Plan Check Date | 6/27/11 | Date: | 7/11/11 | By: | JOJO DUENAS | ☒ Not Approved |
| Resubmittal 2 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 3 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 4 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 5 Date: Plans Approved By: | | | | Date: | | |

Plans Approved: ☐ Without further comment ☐ With conditions listed By:________ Date:________

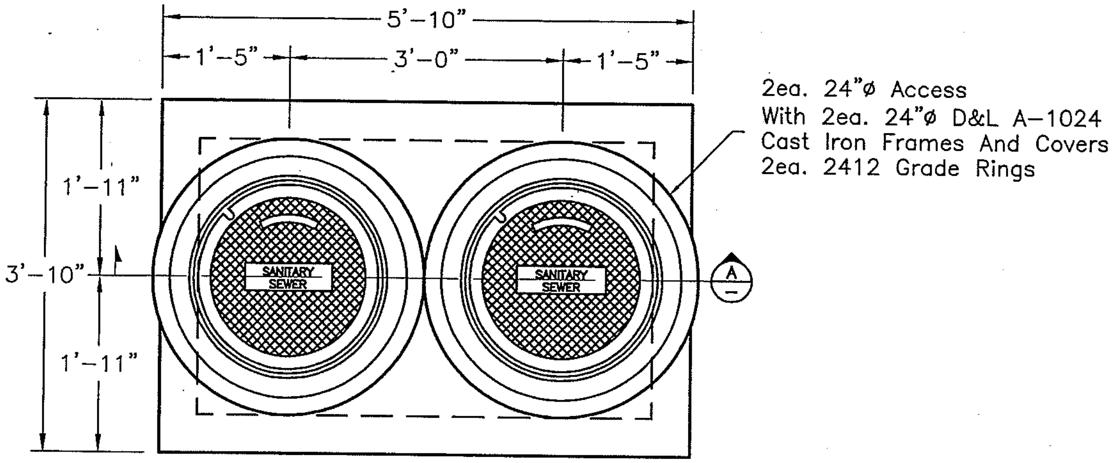
ADDITIONAL DEPARTMENT COORDINATION:

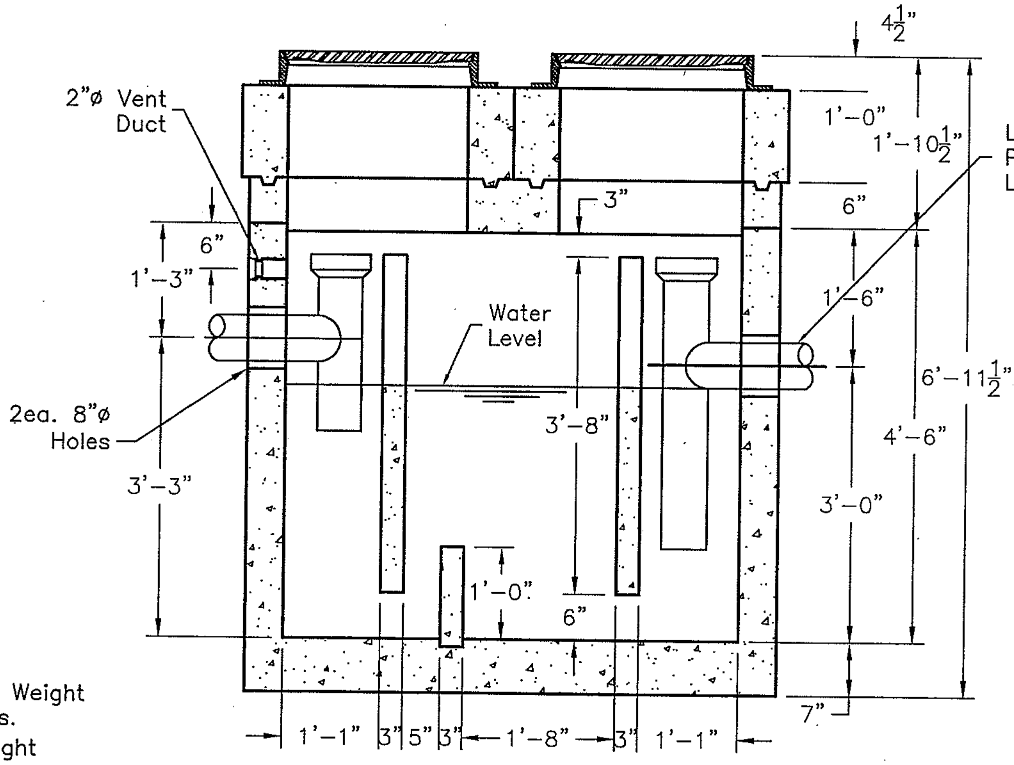
| ITEM | DEPT | DATE RESOLVED | ACTION TO RESOLVE COMMENTS |
|---|---|---|---|
| 1. | | | RECEIVED |
| 2. | | | |
| 3. | | | |
| 4. | | | JUN 29 2011 |
| 5. | | | Dublin San Ramon Services District Engineering Department |

PLAN REVIEW COMMENTS:

- A LIMITED CONSTRUCTION PERMIT IS REQUIRED FOR OIL/WATER SEPARATOR
- NEED RFI ON CONNECTION FOR SEPARATOR. MAY NEED TO PAY ADDITIONAL FEES. CALL JOJO DUENAS TO DISCUSS @ 925-875-2249. REFERENCE PLAN CHECK NUMBER.

| Post-it® Fax Note 7671 | Date 7/11/11 # of pages ▸ 1 |
|---|---|
| To JIM SPARVOLI | From JOJO DUENAS |
| Co./Dept. BUILDING | Co. DSRSD |
| Phone # | Phone # 925-875-2249 |
| Fax # 833-6628 | Fax # |




Top Slab Weight
1,500 Lbs.
Vault Weight
7,100 Lbs.
Total Gallons:
300

Customer to supply pipes and tees.
Piping shown is for reference only.

Optional: Extension Available In 3", 6", 9" And 12"
Drawing May Not Conform To The Most Current Specification

SCALE: 1/2" = 1'-0"


**Oldcastle Precast®**

Division

3786 Valley Ave. Pleasanton California 94566
Phone: 925-846-8183 Fax: 925-846-4904


**OWS-3660**

FILE NAME: 030ECOOWS3660.dwg

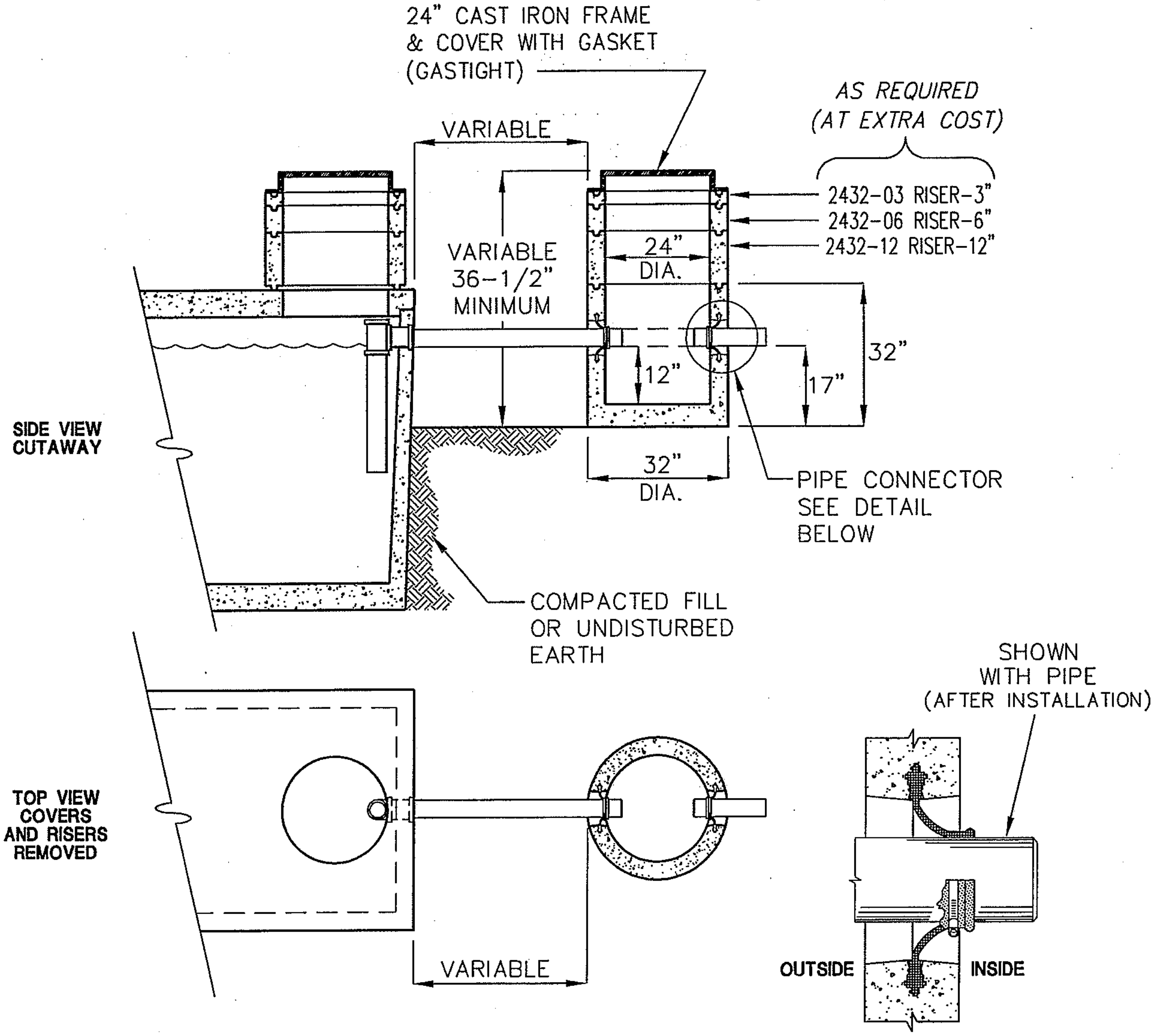
ISSUE DATE: July 2006

www.oldcastleprecast.com

**3 x 5 x 4-6 I.D.**
**Oil Water Separator**
**Utility Vault**

# SAMPLE BOX WITH PIPE CONNECTORS

**MODEL 2432-Z**




**DETAIL**
**PIPE CONNECTOR**
**(Z-LOK)**

BOX WEIGHT: 1250 LBS.
BOX DESIGN LOAD: H-20 TRAFFIC

SAMPLE BOX MUST BE PLACED ON SUITABLE BASE OF COMPACTED SOIL OR UNDISTURBED EARTH IN TRAFFIC CONDITION. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.

PIPE CONNECTOR CAST INTEGRALLY IN WALL. WILL ACCEPT PIPE O.D. (INCHES)

| MIN. | MAX. |
|---|---|
| 4.25 | 6.25 |

SEE Z-LOK PIPE CONNECTOR PAGE FOR ADDITIONAL INFORMATION

10/19/05
2432Z Sample Box_B.dwg


JENSEN PRECAST

**Plan Review Comments:** 828-0515 • FAX: 829-1180

# DSRSD

DUE: 07/12/11

DUE 7/11/11

1st Check Plan Check # BLDG-2011-00835

| | | | | | | |
|---|---|---|---|---|---|---|
| Job Address: | 7544 Dublin Bl-Auto Dealership | | | | Valuation: $140,380.00 | Bin#: File |
| Job Description: | Commercial Alteration-Excavate and removal of existing sump and contaminated soil | | | | | |
| First Plan Check Date | 6/27/11 | Date: | 7/11/11 | By: | JOJO DUENAS | ☒ Not Approved |
| Resubmittal 2 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 3 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 4 Date: | | | | By: | | ☐ Not Approved |
| Resubmittal 5 Date: Plans Approved By: | | | | Date: | | |

Plans Approved: ☐ Without further comment ☐ With conditions listed By:________ Date:________

ADDITIONAL DEPARTMENT COORDINATION:

| ITEM | DEPT | DATE RESOLVED | ACTION TO RESOLVE COMMENTS |
|---|---|---|---|
| 1. | | | RECEIVED |
| 2. | | | |
| 3. | | | |
| 4. | | | JUN 29 2011 |
| 5. | | | Dublin San Ramon Services District Engineering Department |

PLAN REVIEW COMMENTS:

- A LIMITED CONSTRUCTION PERMIT IS REQUIRED FOR OIL/WATER SEPARATOR
- NEED RFI ON CONNECTION FOR SEPARATOR. MAY NEED TO PAY ADDITIONAL FEES. CALL JOJO DUENAS TO DISCUSS @ 925-875-2249. REFERENCE PLAN CHECK NUMBER.

| Post-it® Fax Note 7671 | | Date 7/11/11 | # of pages ▸ 1 |
|---|---|---|---|
| To | JIM SPANVOLI | From | JOJO DUENAS |
| Co./Dept. | BUILDING | Co. | DSRSD |
| Phone # | | Phone # | 925-875-2249 |
| Fax # | 837-6628 | Fax # | |

OML

DUBLIN SAN RAMON SERVICES DISTRICT
PRETREATMENT PROGRAM
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT # 11012

Effective Date: July 15, 2011 Permit Fee: $1307.08
Expiration Date: December 31, 2011

IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THE DUBLIN SAN RAMON SERVICES DISTRICT'S SEWAGE CODE (CHAPTER 5, ARTICLE 2), AND ALSO WITH ANY AND ALL APPLICABLE PROVISIONS OF FEDERAL AND/OR STATE LAWS OR REGULATIONS, PERMISSION IS HEREBY GRANTED TO:

**CROWN CHEVROLET**
**7544 DUBLIN BOULEVARD AND 6707 GOLDEN GATE DRIVE**
**DUBLIN, CA 94568**

SIC CLASSIFICATION: 7500 (AUTO REPAIR), 5500 (AUTO PARTS & GAS STATION), 3714 (MOTOR VEHICLE PARTS & ACCESSORIES, 3711 (MOTOR VEHICLES & PASSENGER CAR BODIES)

FOR THE DISPOSAL OF GROUNDWATER INTO THE SANITARY SEWER AT THE SITE ADDRESS OF:

**7544 DUBLIN BLVD., 6707 GOLDEN GATE DR.**
**DUBLIN, CA 94568**

DISCHARGER UNDERSTANDS ALL THE CONDITIONS OF THIS PERMIT AND AGREES TO COMPLY WITH THESE CONDITIONS AND THE DISTRICT'S SEWAGE CODE (CHAPTER 5, ARTICLE 2). FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT MAY BE GROUNDS FOR ADMINISTRATIVE ACTION, OR ENFORCEMENT PROCEEDINGS INCLUDING CIVIL OR CRIMINAL PENALTIES, INJUNCTIVE RELIEF, PERMIT REVOCATION AND SUMMARY ABATEMENTS.

IN ADDITION, THE DISCHARGER UNDERSTANDS THAT COMPLIANCE WITH THIS PERMIT DOES NOT RELIEVE THE DISCHARGER FROM COMPLIANCE WITH ANY AND ALL LOCAL, STATE AND FEDERAL PRETREATMENT STANDARDS AND REQUIREMENTS INCLUDING ANY SUCH STANDARDS OR REQUIREMENTS THAT MAY BECOME EFFECTIVE DURING THE TERM OF THIS PERMIT.

COMPANY OFFICER: [signature] Jul/15/2011
PATRICK COSTELLO DATE
OWNER

DISTRICT REPRESENTATIVE: [signature] 7/18/11
DAVID A. REQUA DATE
**DISTRICT ENGINEER**

**PART 1-GENERAL INFORMATION**

MAILING ADDRESS

Street: 2101 WEBSTER ST.

City: OAKLAND State: CA Zip: 94612

BUSINESS ADDRESS

Street: SAME

City: State: Zip:

CORPORATE INFORMATION (If Applicable)

Corporate Address: N/A

City: State: Zip:

State of Incorporation:

Corporate Agent:

Agent Address:

City: State: Zip:

Agent Phone #:

PROPERTY OWNER

Name: TERRI COSTELLO

Address: 12 Meadow lark CT

City: DANVILLE State: CA Zip: 94526

Chief Executive Officer, General Partner, or Proprietor

Name: PATRICK COSTELLO Title: OWNER, CROWN CHEVROLET

Address: P.O. BOX 2010

City: DUBLIN State: CA Zip: 94568

PERSON TO SIGN THIS PERMIT

Name: PATRICK COSTELLO Title: OWNER, CROWN CHEVROLET

Phone #:(Day) 925-556-3201 (Night) 925-895-0769

PERSON TO BE CONTACTED ABOUT THIS PERMIT

Name: ANDREW LOJO Title: SENIOR GEOLOGIST

Phone #:(Day) 510-663-4153 (Night) 510-703-5696

PERSON TO BE CONTACTED IN CASE OF EMERGENCY

Name: ANDREW LOJO Title: SENIOR GEOLOGIST

Phone #:(Day) 510-663-4153 (Night) 510-703-5696

TYPE OF BUSINESS OR OPERATION:

AUTO SALES AND SERVICE

DESCRIPTION OF APPLICABLE PROCESSES:

| PROCESS DESCRIPTION | 40 CFR PROCESS |
|---|---|
| ONE TIME BATCH DISCHARGE OF GROUNDWATER FROM SUMP | N/A |
| EXCAVATION | |
| | |

**PART 2 - FEES AND CHARGES**

The Discharger identified on the title page of this permit is hereby given authorization to discharge industrial/commercial wastewater into the sanitary sewer provided that:

a. The Discharger makes payment of sewer service charges in association with the industrial/commercial wastewater discharge. Sewer service charges are based on the flow and strength of the wastewater. The strength of the wastewater is measured by the Biochemical Oxygen Demand (BOD) and the Total Suspended Solids (TSS) analyses.

b. The Discharger makes payment of the fees associated with the administration of this permit. Fees shall include, but not limited to, permit fees, inspection fees and sampling & analysis fees. Other fees may apply as a result of escalated enforcement action.

**PART 3 - MONITORING REQUIREMENTS**

I. DISCHARGE LIMITATIONS

a. **Only groundwater generated from dewatering the excavation indicated on the drawing in Appendix B is permitted. No domestic and/or industrial/commercial wastewaters are granted under this permit.**

b. The rate of discharge shall **not** exceed **100** gallons per minute (gpm).

c. The discharge location shall be at the onsite sanitary sewer cleanout indicated on the drawing of Appendix B of this permit.

d. The volume of wastewater discharged to the sanitary sewer shall be documented as required in Part 4, Section IV of this permit.

The Discharger shall comply with all discharge limitations referenced in Appendix A of this permit as they apply to any facility discharge which is analyzed by approved methods and/or permit conditions.

The Discharger shall also comply with the prohibited discharges referenced in Chapter 5, Article 2 of the District Code.

II. REPRESENTATIVE SAMPLING

Effluent samples collected for analyses shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring point(s) specified in this permit and, unless otherwise specified, before the effluent joins or is diluted by any other wastestream, body of water or substance. All equipment used for sampling must be routinely inspected and maintained to ensure their accuracy.

III. SAMPLING AND ANALYSIS

The Discharger shall comply with the following sampling and analysis requirements:

a. The facility's wastewater discharge shall be sampled, at a minimum, according to the required sampling frequency outlined in Appendix A.

b. Discharger shall conduct compliance sampling and analysis for all applicable pollutants listed in Appendix A of this permit, prior to each proposed batch discharge. This compliance sampling shall be representative of the tank contents to the extent practicable. Analysis results shall be submitted to the District for review and approval prior to discharging the wastewater. **The Discharger shall obtain prior approval from the District before discharging any batch wastewater.**

c. All samples for the pollutants listed in Appendix A of this permit shall be taken from the baker tank indicated in the drawing in Appendix B. If pretreatment is needed as a result of the initial analyses, subsequent sampling will be taken from the pretreatment effluent.

d. All handling, preservation, and holding times of collected samples and laboratory analyses of samples shall be performed in accordance with 40 CFR, Part 136 and amendments thereto unless specified otherwise in the monitoring conditions of this permit. In addition, all samples shall be delivered as soon as possible to the certified laboratory, but never shall the delivery of the samples to the laboratory exceed twenty-four (24) hours from the time the samples were obtained.

e. The laboratory selected to perform the analyses must be certified by the State of California Department of Health Services for wastewater analyses.

IV. VIOLATION RESAMPLING

If the results of any wastewater analysis performed by, or at the direction of, the Discharger indicates that a violation of this permit has occurred, the Discharger must:

a. Inform the District of the violation within 24 hours of becoming aware of the violation; and

b. Repeat the sampling and pollutant analysis and submit, in writing, the results of this second analysis within thirty

(30) days from the date the Discharger first becomes informed of the violation.

## PART 4 - REPORTING REQUIREMENTS

### I. MONITORING REPORTS

If the Discharger monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR, Part 136 or amendments thereto, or otherwise approved by the EPA, or as specified in this permit, the results of such monitoring shall be submitted within 45 days of the monitoring date to the District to determine compliance with all discharge limits as referenced in Appendix A. The monitoring results shall be submitted with the Signatory Requirement referenced in Part 5, Section XII of this permit. Also, these monitoring results shall be included in the calculations to determine if and when the Discharger is in "Significant Noncompliance".

### II. ACCIDENTAL DISCHARGE REPORT

The Discharger shall notify the District immediately, **by telephone,** upon becoming aware of the occurrence of any accidental discharge of substances prohibited by this permit or the District Code or of any **slug discharges** or spills that may enter the sanitary sewer. The Discharger shall call the following telephone number to notify the District of such discharges:

(925) 846-4565 (24 hours a day)

The telephone message must include the following information:

a. Business name, contact person, and telephone number.
b. Location and time of discharge.
c. Composition of the waste including hazardous properties.
d. Concentration and volume.
e. Immediate corrective actions taken.
f. Any other information deemed relevant.

Within five (5) days following the accidental discharge the Discharger shall submit to the District a detailed written report. The report shall provide the following information:

a. Description and cause of the upset, **slug load** or accidental discharge. The description shall include the location of the discharge, and the composition, concentration and volume of waste.

b. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur.

c. All steps taken, or to be taken, to reduce, eliminate, and/or prevent recurrence of such an upset, **slug load**, accidental discharge, or other conditions of noncompliance.

d. Any information deemed relevant.

It shall be the responsibility of the Discharger to notify the District of any unusual discharge whether or not the Discharger is aware of any possible impact to the District's facilities or operations.

The Discharger's notification to the District of accidental discharges does not relieve the Discharger of other reporting requirements in accordance with local, state, or federal laws.

III. BYPASS OF TREATMENT FACILITIES

a) Bypass is prohibited unless it is unavoidable to prevent loss of life, personal injury, or severe property damage or no feasible alternatives exist.

b) Notification of bypass:

(1) Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit prior written notice, at least ten days before the date of the bypass, to the District.

(2) Unanticipated bypass. The Discharger shall immediately notify, the District, **by telephone,** and submit written notice to the District within 5 days. This report shall specify:

(i) A description of the bypass, and its cause, including its duration;

(ii) Whether the bypass has been corrected; and

(iii) The steps being taken or to be taken to reduce, eliminate and prevent a reoccurrence of the bypass.

c) The Discharger may allow bypass to occur which does not cause effluent limitations to be exceeded, but only if it is also for essential maintenance to assure efficient operation. These bypasses are not subject to paragraphs (a) and (b) of this section.

IV. FLOW REPORTS

The Discharger shall submit a flow report to the District prior to every proposed batch discharge of groundwater. The flow report shall contain the volume of purged groundwater proposed for discharge and accompany the laboratory analysis results associated with the groundwater proposed for discharge.

**All reports required by this permit shall be submitted to Dublin San Ramon Services District at the following address:**

7399 Johnson Drive
Pleasanton, CA 94588
ATTENTION: Environmental Compliance Section

**PART 5 - STANDARD CONDITIONS**

I. INSPECTION AND ENTRY

The Discharger shall grant the District staff or authorized representatives entrance to the permitted facility for the purposes of inspection and sampling at all reasonable times. The inspection shall include the examination of all files pertaining to the requirements contained within this permit and the District's Sewerage Code and/or the examination of all sources of industrial wastewater discharge.

In addition, the Discharger shall inform District staff of the facility's safety procedures and requirements including the use of personal protective equipment.

II. DILUTION

The Discharger shall not increase the use of potable or process water or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained within this permit, any National Pretreatment Standards, or any other wastewater effluent limitation developed by the District or State.

III. FACILITY MODIFICATION/CHANGES

The Discharger shall notify the District at least 30 days prior to any facility expansion, production increase, or process modification which results in new or substantially increased wastewater discharges or a change in the nature of the wastewater discharge.

Furthermore, the Discharger **shall obtain prior approval from the District** before discharging any new sources of wastewater, wastewater discharges that have substantially increased in volume, and/or any source of wastewater that has changed in nature.

IV. ANTICIPATED NONCOMPLIANCE

The Discharger shall give notice to the District at least 30 days prior to any planned changes in the permitted facility or activity, which may result in noncompliance with the requirements in this permit.

## V. HAZARDOUS AND NON-SEWERABLE WASTES

Solids, sludge, filter backwash, non-sewerable wastewater, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in accordance with all applicable state, federal and local laws. Spent chemical solutions, and any toxic or hazardous wastes shall be either disposed of at an authorized site by a properly licensed hazardous waste hauler, or recycled by a properly licensed recycler. No discharge of untreated spent chemical solutions and/or hazardous wastes to the public sewer is permitted.

## VI. SPILL PROTECTION

The Discharger shall provide adequate protection including, but not limited to, secondary containment for all hazardous chemicals, hazardous waste and non-sewerable wastes which are stored in areas where potential spills could reach the facility's floor drains.

## VII. OPERATIONS AND MAINTENANCE

The Discharger shall properly operate and maintain all pretreatment facilities that were installed or used to achieve compliance with this permit.

## VIII. PRETREATMENT SYSTEM

The Discharger shall maintain the pretreatment system in proper operating condition to insure compliance with the local discharge limitations. The influent to the pretreatment system shall be limited to groundwater removed from the excavation.

## IX. RECORDS/LOGS

The Discharger shall maintain logs and records of all data pertaining to the operations and maintenance activities implemented for the purpose of achieving compliance with this permit. Such documentation shall include, but not limited to, records/logs for calibrations, spent chemical bath solutions, flow data, water usage data, chemical dose rates, routine maintenance of equipment, routine treatment process checks, analyses and process changes, as they pertain to the process wastewaters discharged from the facility.

## X. RECORDS RETENTION

The Discharger shall retain all records pertaining to the requirements set forth in this permit including, but not limited to, effluent sampling and analysis data, reports, calibration and maintenance records, logs, all original strip chart recordings for continuous monitoring instruments and receipts for off-haul of hazardous and non-sewerable wastes for a period of three (3) years.

## XIV. TRANSFERABILITY

This Industrial Wastewater Discharge Permit is non-transferable and valid only to the industry and owner to whom it is originally issued. Transfer of ownership, changes to any industrial processes, or a significant change of wastewater quality shall void the permit.

## XV. ENFORCEMENT

Section 5.2.52 (B) of the District Code provides that any Discharger who violates a permit condition is subject to civil penalties not to exceed Twenty Five Thousand Dollars ($25,000) for each day of such violations. Section 5.2.56 (B) of the District Code provides that any person who willfully or negligently violates permit conditions is subject to criminal penalties of a fine not to exceed One Thousand Dollars ($1,000) per day of violation, or by imprisonment in the county jail not to exceed six (6) months, or both. The Discharger may also be subject to sanctions under State and/or Federal Law.

In addition to civil and criminal liability, the Discharger violating any of the provisions of this permit or Chapter 5 of the District Code or causing damage to or otherwise inhibiting the District's wastewater disposal system shall be liable to the District for any expense, loss, or damage caused by such violation or discharge. The District shall bill the Discharger for the costs incurred by the District for any cleaning, repair, or replacement work caused by the violation or discharge. Refusal to pay the assessed costs shall constitute a separate violation of Section 5.2.52 (E) of the District Code.

## XVI. DUTY TO REAPPLY

If the activities regulated by this permit are planned, or anticipated, to be continued after the expiration date of this permit, the Discharger must submit a written request for the issuance of a new permit at least thirty (30) days prior to the expiration date of this permit.

## XVII. CONTINUATION OF EXPIRED PERMITS

An expired permit shall continue to be effective and enforceable until a new permit has been reissued if:

a. The Discharger has submitted a completed permit application **at least 30 days** prior to the expiration of the Discharger's current permit.

b. The failure to reissue the new permit, prior to the expiration of the previous permit, is not due to any act or failure to act on the part of the Discharger.

XVIII. ANNUAL PUBLICATION

As required by the Federal Pretreatment Regulations (40 CFR 403.8(f)(2)(viii)) the District shall comply with the public participation requirements of 40 CFR Part 25. Subsequently, any industrial/commercial user determined to be in "Significant Noncompliance" with applicable pretreatment requirements at any time during the last twelve (12) months shall be published in the largest newspaper circulated in the District's service area. Appendix C defines the criteria used to determine "Significant Noncompliance".

# APPENDIX A

# DISCHARGE LIMITATIONS

# APPENDIX A

CROWN CHEVROLET

PERMIT# 11012

The table below lists the maximum concentrations allowed to be discharged into the sanitary sewer per the District code and federal regulations. Local limits apply as instantaneous maximum values for grab samples, and as daily maximum values for composite samples. Currently, the District performs all monitoring requirements on behalf of the Discharger. However, in the event of District notification to the Discharger that the District will no longer perform the monitoring, the Discharger is responsible for the required sampling frequency as listed below, as well as violation resampling requirements as specified in Part 3, Section 4 of this permit.

The last column indicates the required sampling frequency. "--" indicates that these pollutants are not sampled on a routine basis. However, this **does not** relieve the Discharger from also complying with these limits. The District reserves the right to sample for any local limit pollutant.

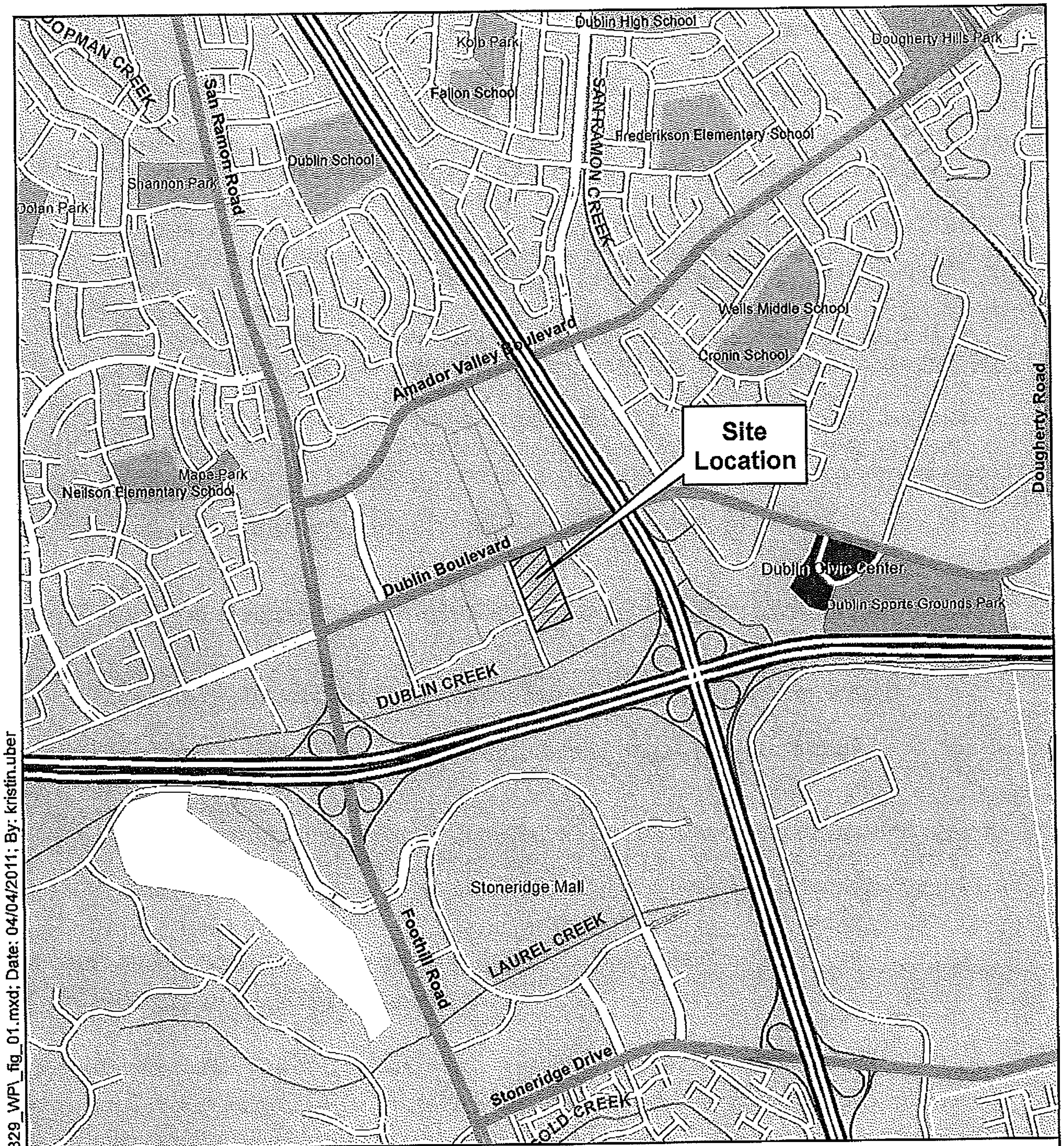
| POLLUTANT | LOCAL LIMIT mg/l | FEDERAL LIMIT DAILY MAX mg/l | FEDERAL LIMIT AVG mg/l | SAMPLE TYPE | REQUIRED SAMPLING FREQUENCY |
|---|---|---|---|---|---|
| ARSENIC | 0.50 | NA | NA | G | -- |
| CADMIUM | 1.00 | NA | NA | G | -- |
| CHROMIUM | 1.00 | NA | NA | G | -- |
| COPPER | 1.00 | NA | NA | G | -- |
| LEAD | 2.00 | NA | NA | G | -- |
| MERCURY | 0.010 | NA | NA | G | -- |
| NICKEL | 1.50 | NA | NA | G | -- |
| SELENIUM | 1.30 | NA | NA | G | -- |
| SILVER | 1.50 | NA | NA | G | -- |
| ZINC | 4.00 | NA | NA | G | -- |
| CYANIDE | 0.50 | NA | NA | G | -- |
| PHENOLS | 20.0 | NA | NA | G | -- |
| T.I.C.H. (608) | 0.02 | NA | NA | G | -- |
| PCBs (608) | 0.01 | NA | NA | G | -- |
| * T.T.O. (624/625) | 5.00* | NA* | NA* | G | PER BATCH |
| PAH (610) | 6.50 | NA | NA | G | -- |
| OIL/GREASE (HYDROCARBON) (ANIMAL/VEG.) | 150<br>200 | NA | NA | G | -- |
| TPH-GAS & TPH-DIESEL | 15.0 | NA | NA | G | PER BATCH |
| EPA 602 (BTEX) | 1.00 | NA | NA | G | PER BATCH |
| TOTAL DISSOLVED SOLIDS (TDS) | 1000 | NA | NA | G | -- |
| RADIOACTIVITY | NA | FS | FS | G | -- |
| B.O.D. | NA | NA | NA | G | -- |
| C.O.D. | NA | NA | NA | G | -- |
| T.S.S. | NA | NA | NA | G | -- |
| pH | MIN. 6.0**<br>MAX. 11.0** | NA<br>NA | NA<br>NA | G | -- |

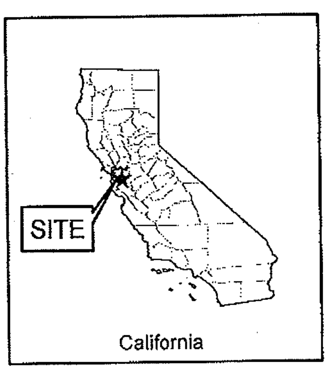
NA = NOT APPLICABLE
G = GRAB
C = COMPOSITE
GC = GRAB COMPOSITE
PAH = POLYNUCLEAR AROMATIC HYDROCARBONS
TPH = TOTAL PETROLEUM HYDROCARBONS

* T.T.O. = TOTAL TOXIC ORGANICS PER DISTRICT CODE 5.2.03(QQ)
** = pH UNITS
AVG = MONTHLY AVERAGE
T.I.C.H. = TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS
FS= REFER TO FEDERAL OR STATE REGS. (10CFR 20 0R CCR TITLE 17)

# APPENDIX B

# SAMPLING LOCATION(S)



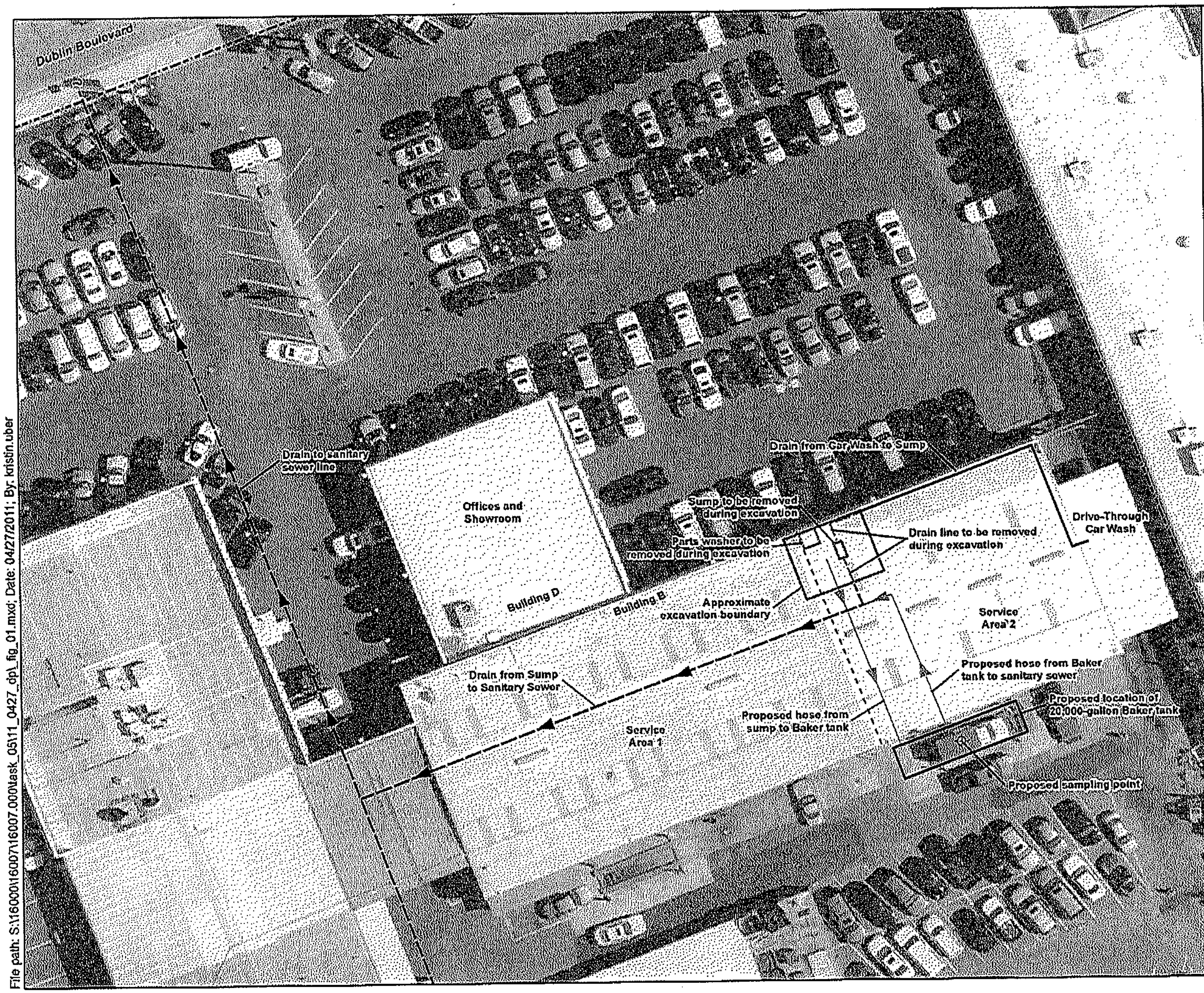

0 1,500 3,000 Feet

N

SITE LOCATION MAP
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AWP | Date: 04/04/2011 | Project No. OD1016007 |
|---|---|---|
| **AMEC Geomatrix** | | Figure 1 |

File path: S:\16000\16007\16007.000\task_02\11_0329_WP_fig_01.mxd; Date: 04/04/2011; By: kristin.uber




Explanation

- Proposed sampling point
- Proposed drainage hose
- Direction of flow
- Approximate excavation boundary
- Internal building wall
- Approximate sump location
- Approximate location of above-ground drain line
- Approximate location of below-ground drain line

N

0 15 30 Feet

PROPOSED P.O.T.W. PERMIT LAYOUT
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

| By: AL | Date: 04/27/2011 | Project No. OD10160070 |
|---|---|---|
| AMEC Geomatrix | | Figure 2 |

File path: S:\16000\16007\16007.000\task_05\11_0427_dpl_fig_01.mxd; Date: 04/27/2011; By: kristin.uber

# APPENDIX C

# SIGNIFICANT NONCOMPLIANCE

## SIGNIFICANT NONCOMPLIANCE

Instances of Significant Noncompliance (SNC) are industrial user violations which meet one or more of the following criteria:

1. Violations of the wastewater discharge limits.

   a. Chronic violations. Sixty-six percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period which exceed, by any magnitude, a numeric pretreatment standard or requirement, including instantaneous limits, as defined by 40 CFR 403.3(l).

   b. Technical Review Criteria (TRC) violations. Thirty-three percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period equal or exceed the product of a numeric pretreatment standard or requirement, including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC.

   There are two groups or TRC's:

   | | | | |
   |---|---|---|---|
   | Group I for conventional pollutants (BOD, TSS, fats, oil and grease) | TRC | = | 1.4 |
   | Group II for all other pollutant, except pH | TRC | = | 1.2 |

   c. Any other violation(s) of a Pretreatment Standard or Requirement, including instantaneous limits, as defined by 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative standard that the District believes has caused, alone or in combination with other discharges, interference (e.g., slug loads) or pass-through; or endangered the health of the sewage treatment personnel or the public.

   d. Any discharge of a pollutant that has caused imminent endangerment to human health/welfare or to the environment and has resulted in the District's exercise of its emergency authority to halt or prevent such a discharge.

2. Failure to meet, within 90 days after the compliance date, compliance schedule milestones contained in a permit or enforcement order for starting construction, completing construction, or attaining final compliance.

3. Failure to provide reports for compliance schedules, self-monitoring data or categorical standards (baseline monitoring reports, 90-day compliance reports, and periodic reports) within 30 days from the due date.

4. Failure to accurately report noncompliance.

5. Any other violation or group of violations, which may include a violation of Best Management Practices, which the District considers to be significant.

## APPENDIX C

Soil Disposal Manifests

644851

**FORWARD**
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235333 | |

WEIGHMASTER: BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 27 October 2011 | 9:07 am |

| DATE OUT | TIME OUT |
|---|---|
| 27 October 2011 | 9:07 am |

| VEHICLE | ROLL OFF |
|---|---|
| ROAD 777 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract#: 42041110739

01 Gross Weight 77,840.00 lb Inbound -
Stored Tare Weight 32,440.00 lb
Net Weight 45,400.00 lb 22.70 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 22.70 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620846

DRIVER SIGNATURE ______________

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-3301

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** — **DATE**
* 10/27/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☐ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☐ HARD HAT
☐ TY-VEK ☐ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**WASTE TYPE:**
☐ DISPOSAL
☐ CONSTRUCTION
☐ DEBRIS
☐ SPECIAL WASTE
☐ SLUDGE
☐ WOOD
☐ OTHER

**RECEIVING FACILITY**

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** — **DATE**
* 10/27/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| VP72830 | 777 |

ROAD RUNNER

☒ END DUMP ☐ BOTTOM DUMP ☐ TRANSFER
☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** — **DATE**
*

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620846

644858

FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235340 | |

| WEIGHMASTER |
|---|
| BB00078 BRIDGETTE B |

| DATE IN | TIME IN |
|---|---|
| 27 October 2011 | 9:16 am |

| DATE OUT | TIME OUT |
|---|---|
| 27 October 2011 | 9:16 am |

| VEHICLE | ROLL OFF |
|---|---|
| ROAD 555 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

Gross Weight 77,580.00 lb Inbound -
Stored Tare Weight 31,340.00 lb
Net Weight 46,240.00 lb 23.12 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 23.12 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620847

DRIVER SIGNATURE

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES

A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925 556 3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE**
*

**DATE**
10/27/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
— 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER**
*

**DATE**
10/27/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| UP69229 | 555 |

R A RUNNER

| END DUMP | BOTTOM DUMP | TRANSFER |
|---|---|---|
| ☒ | ☐ | ☐ |

| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT**
*

**DATE**

**CUBIC YARDS**

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620847

615549

FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235362 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 27 October 2011 | 9:34 am |

| DATE OUT | TIME OUT |
|---|---|
| 27 October 2011 | 9:58 am |

| VEHICLE | ROLL OFF |
|---|---|
| JAI 106 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

01 Gross Weight 54,500.00 lb Inbound -
Tare Weight 25,760.00 lb
Net Weight 28,740.00 lb 14.37 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 14.37 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620849

DRIVER SIGNATURE

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925 556 3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE: *

DATE: 10/27/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
❑ DISPOSAL
❑ CONSTRUCTION
❑ DEBRIS
❑ SPECIAL WASTE
❑ SLUDGE
❑ WOOD
❑ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

WASTE ACCEPTANCE NO.
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER: *

DATE: 10/27/11

| NOTES: | VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|---|
| | 8R83935 | 106 |

JAI H TRUCKING

| END DUMP | BOTTOM DUMP | TRANSFER |
|---|---|---|
| ☒ Super | ❑ | ❑ |

| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
|---|---|---|---|
| ❑ | ❑ | ❑ | ❑ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT: *

DATE

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ❑ SOIL | | |
| ❑ CONSTRUCTION DEBRIS | | |
| ❑ NON-FRIABLE ASBESTOS | | |
| ❑ WOOD | | |
| ❑ ASH | | |
| ❑ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620849

644870

**FORWARD**
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| YB | 2353352 | |

WEIGHMASTER: BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 27 October 2011 | 9:28 am |
| **DATE OUT** | **TIME OUT** |
| 27 October 2011 | 9:39 am |
| **VEHICLE** | **ROLL OFF** |
| TAI 104 | |
| **REFERENCE** | **ORIGIN** |
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

03 Gross Weight 52,120.00 lb Inbound -
Tare Weight 25,400.00 lb
Net Weight 26,720.00 lb 13.36 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 13.36 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620848

DRIVER SIGNATURE

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925-556-3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE
*

DATE
10/27/11

**GENERATOR'S CERTIFICATION:** I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- ❑ DISPOSAL
- ❑ CONSTRUCTION
- ❑ DEBRIS
- ❑ SPECIAL WASTE
- ❑ SLUDGE
- ❑ WOOD
- ❑ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
❑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ❑ HARD HAT
❑ TY-VEK ❑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER
*

DATE
2.1

NOTES:

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 8P41191 | 104 |

JAI H TRKG.

| END DUMP | BOTTOM DUMP | TRANSFER | |
|---|---|---|---|
| ☑ SLAPER | ❑ | ❑ | |
| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
| ❑ | ❑ | ❑ | ❑ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT
*

DATE

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ❑ SOIL | | |
| ❑ CONSTRUCTION DEBRIS | | |
| ❑ NON-FRIABLE ASBESTOS | | |
| ❑ WOOD | | |
| ❑ ASH | | |
| ❑ SPECIAL OTHER | | |

10/27/11

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620848

644522

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235874 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 3:15 pm |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 3:40 pm |

| VEHICLE | ROLL OFF |
|---|---|
| MEZA 244 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

01 Gross Weight 71,840.00 lb Inbound -
Tare Weight 31,480.00 lb
Net Weight 40,360.00 lb 20.18 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 20.18 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620864

DRIVER SIGNATURE

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☑ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925-556-3201

CONTACT PERSON
PATRICK COSTELLO

| SIGNATURE OF AUTHORIZED AGENT / TITLE | DATE |
|---|---|
| * | 10/28/11 |

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

WASTE ACCEPTANCE NO.
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
- ☑ GLOVES
- ☐ GOGGLES
- ☐ RESPIRATOR
- ☑ HARD HAT
- ☐ TY-VEK
- ☑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 9549_

PHONE
800-838-1477

| SIGNATURE OF AUTHORIZED AGENT OR DRIVER | DATE |
|---|---|
| * | 1/2 |

NOTES:

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9E24199 | 2414 |

Meza Trucking

| END DUMP | BOTTOM DUMP | TRANSFER | |
|---|---|---|---|
| ☑ | ☐ | ☐ | |
| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
| ☐ | ☐ | ☐ | ☐ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|---|---|
| * | 10/28/11 |

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST # 620864

SALES COPY

644521

# FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235873 | |

| | |
|---|---|
| WEIGHMASTER | CHRISTINA G |
| DATE IN | 28 October 2011 |
| TIME IN | 3:02 pm |
| DATE OUT | 28 October 2011 |
| TIME OUT | 3:36 pm |
| VEHICLE | MEZA 243 |
| ROLL OFF | |
| REFERENCE | |
| ORIGIN | DUBLIN |

01 Gross Weight 57,400.00 lb Inbound -
Tare Weight 32,060.00 lb
Net Weight 25,340.00 lb 12.67 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 12.67 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620865

DRIVER SIGNATURE

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES

A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☑ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925 556 3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** | **DATE**
* | 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
— 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☑ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☑ HARD HAT
☐ TY-VEK ☑ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** | **DATE**
* | 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 7RC 224G | 243 |

MEZA TRUCKING

END DUMP ☐ BOTTOM DUMP ☐ TRANSFER ☑
ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS ☐

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** | **DATE**
* |

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620865

644416

**FORWARD INCORPORATED**

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235754 | |

WEIGHMASTER: DB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 11:43 am |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 11:43 am |

| VEHICLE | ROLL OFF |
|---|---|
| PUNO 2223 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

01 Gross Weight 79,400.00 lb Inbound -
Stored Tare Weight 30,940.00 lb
Net Weight 48,460.00 lb 24.23 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 24.23 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620858

DRIVER SIGNATURE

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

NS 22

| | | | | |
|---|---|---|---|---|
| ☐ **Keller Canyon Sanitary Landfill**<br>901 Bailey Road<br>Pittsburg, CA 94565<br>Phone (925) 458-9800<br>Fax (925) 458-9891 | ☐ **Coffin Butte Landfill**<br>28972 Coffin Butte Road<br>Corvallis, OR 97330<br>Phone (541) 745-2018<br>Fax (541) 745-3826 | ☐ **Ox Mountain Sanitary Landfill**<br>12310 San Mateo Road<br>Half Moon Bay, CA 94019<br>Phone (650) 726-1819<br>Fax (650) 726-9183 | ☐ **Newby Island Sanitary Landfill**<br>1601 Dixon Landing Road<br>Milpitas, CA 95035<br>Phone (408) 945-2800<br>Fax (408) 262-2871 | ☒ **Forward Landfill**<br>9999 S. Austin Road<br>Manteca, CA 95336<br>Phone (209) 982-4298<br>Fax (209) 982-1009 |

1145

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-2201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** * — **DATE** 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** * — **DATE** 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9D34849 | 2223 |

I.E.C Puno

| END DUMP | BOTTOM DUMP | TRANSFER |
|---|---|---|
| ☒ | ☐ | ☐ |

| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** * — **DATE** 10/28/11

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620858

644468

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235813 | |

| WEIGHMASTER | |
|---|---|
| BB00078 BRIDGETTE B | |
| **DATE IN** | **TIME IN** |
| 28 October 2011 | 1:07 pm |
| **DATE OUT** | **TIME OUT** |
| 28 October 2011 | 1:24 pm |
| **VEHICLE** | **ROLL OFF** |
| TNT 12 | |
| **REFERENCE** | **ORIGIN** |
| | DUBLIN |

01 Gross Weight 76,380.00 lb Inbound -
Tare Weight 31,940.00 lb
Net Weight 44,440.00 lb 22.22 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 22.22 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620863

DRIVER SIGNATURE ____________

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

| | | | | |
|---|---|---|---|---|
| ☐ **Keller Canyon Sanitary Landfill**<br>901 Bailey Road<br>Pittsburg, CA 94565<br>Phone (925) 458-9800<br>Fax (925) 458-9891 | ☐ **Coffin Butte Landfill**<br>28972 Coffin Butte Road<br>Corvallis, OR 97330<br>Phone (541) 745-2018<br>Fax (541) 745-3826 | ☐ **Ox Mountain Sanitary Landfill**<br>12310 San Mateo Road<br>Half Moon Bay, CA 94019<br>Phone (650) 726-1819<br>Fax (650) 726-9183 | ☐ **Newby Island Sanitary Landfill**<br>1601 Dixon Landing Road<br>Milpitas, CA 95035<br>Phone (408) 945-2800<br>Fax (408) 262-2871 | ☑ **Forward Landfill**<br>9999 S. Austin Road<br>Manteca, CA 95336<br>Phone (209) 982-4298<br>Fax (209) 982-1009 |

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925 556 3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** — **DATE**
* — 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, If the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☑ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☑ HARD HAT
☐ TY-VEK ☑ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** — **DATE**
* — 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9B85350 | 12 |

TNT

| END DUMP | BOTTOM DUMP | TRANSFER | |
|---|---|---|---|
| ☑ | ☐ | ☐ | |
| **ROLL-OFF(S)** | **FLAT-BED** | **VAN** | **DRUMS** |
| ☐ | ☐ | ☐ | ☐ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** — **DATE**
*

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620863

644438

# FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 2357783 | |

| WEIGHMASTER |
|---|
| CHRISTINA G |

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 12:36 pm |
| **DATE OUT** | **TIME OUT** |
| 28 October 2011 | 12:36 pm |
| **VEHICLE** | **ROLL OFF** |
| J & J 128 | |
| **REFERENCE** | **ORIGIN** |
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

03 Gross Weight 79,700.00 lb Inbound -
Stored Tare Weight 31,500.00 lb
Net Weight 48,200.00 lb 24.10 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 24.10 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620861

DRIVER SIGNATURE Rahmann D. Harden

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

NS 33

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☑ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925-556-3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE
*

DATE
10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
❑ DISPOSAL
❑ CONSTRUCTION
❑ DEBRIS
❑ SPECIAL WASTE
❑ SLUDGE
❑ WOOD
❑ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

WASTE ACCEPTANCE NO.
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ☑ HARD HAT
❑ TY-VEK ☑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER
*

DATE
10/28/11

| NOTES: | VEHICLE LICENSE NUMBER | TRUCK NUMBER |
| --- | --- | --- |
| | 9E40140 | ~~[illegible]~~ 128 |

J & J TRANSPORT

| END DUMP | BOTTOM DUMP | TRANSFER |
| --- | --- | --- |
| ☑ | ❑ | ❑ |

| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
| --- | --- | --- | --- |
| ❑ | ❑ | ❑ | ❑ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT
*

DATE

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
| --- | --- | --- |
| ❑ SOIL | | |
| ❑ CONSTRUCTION DEBRIS | | |
| ❑ NON-FRIABLE ASBESTOS | | |
| ❑ WOOD | | |
| ❑ ASH | | |
| ❑ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620861

644454

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 2357799 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 12:46 pm |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 1:03 pm |

| VEHICLE | ROLL OFF |
|---|---|
| GILL Y96 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY'OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

01 Gross Weight 75,660.00 lb Inbound --
Tare Weight 33,140.00 lb
Net Weight 42,520.00 lb 21.26 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 21.26 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620862

DRIVER SIGNATURE ______________

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

NS-33

- [ ] **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

- [ ] **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

- [ ] **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

- [ ] **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

- [x] **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925-556-3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE: *
DATE: 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- [ ] DISPOSAL
- [ ] CONSTRUCTION
- [ ] DEBRIS
- [ ] SPECIAL WASTE
- [ ] SLUDGE
- [ ] WOOD
- [ ] OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
- [x] GLOVES
- [ ] GOGGLES
- [ ] RESPIRATOR
- [x] HARD HAT
- [ ] TY-VEK
- [x] SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER: * wh
DATE: 10/28/11

NOTES:

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9B92293 | 496 |

GILL TRUCKING

- [x] END DUMP
- [ ] BOTTOM DUMP
- [ ] TRANSFER
- [ ] ROLL-OFF(S)
- [ ] FLAT-BED
- [ ] VAN
- [ ] DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER
621008

SIGNATURE OF AUTHORIZED AGENT: *
DATE

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620862

615609

# FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235772 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 12:13 pm |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 12:13 pm |

| VEHICLE | ROLL OFF |
|---|---|
| ROAD 777 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

Gross Weight 78,580.00 lb Inbound -
Stored Tare Weight 32,440.00 lb
Net Weight 46,140.00 lb 23.07 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 23.07 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620860

DRIVER SIGNATURE

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☑ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925 556 3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** *

**DATE** 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
❏ DISPOSAL
❏ CONSTRUCTION
❏ DEBRIS
❏ SPECIAL WASTE
❏ SLUDGE
❏ WOOD
❏ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
❏ GLOVES ❏ GOGGLES ❏ RESPIRATOR ❏ HARD HAT
❏ TY-VEK ❏ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** *

**DATE** 10/28/11

| NOTES: | VEHICLE LICENSE NUMBER | TRUCK NUMBER |
| --- | --- | --- |
| | VP72830 | 777 |

ROAD RUNNER TRUCK LINES.

☑ END DUMP ❏ BOTTOM DUMP ❏ TRANSFER
❏ ROLL-OFF(S) ❏ FLAT-BED ❏ VAN ❏ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** *

**DATE**

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
| --- | --- | --- |
| ❏ SOIL | | |
| ❏ CONSTRUCTION DEBRIS | | |
| ❏ NON-FRIABLE ASBESTOS | | |
| ❏ WOOD | | |
| ❏ ASH | | |
| ❏ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

MANIFEST # 620860

SALES COPY

615607

# FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235765 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 12:00 pm |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 12:00 pm |

| VEHICLE | ROLL OFF |
|---|---|
| ROAD 555 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

Gross Weight 80,140.00 lb
Stored Tare Weight 31,340.00 lb
Net Weight 48,800.00 lb 24.40 TN

Inbound -

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 24.40 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620659

DRIVER SIGNATURE

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

NS-33

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925 556 3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE
*

DATE
10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
❑ DISPOSAL
❑ CONSTRUCTION
❑ DEBRIS
❑ SPECIAL WASTE
❑ SLUDGE
❑ WOOD
❑ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☑ GLOVES ❑ GOGGLES ❑ RESPIRATOR ☑ HARD HAT
❑ TY-VEK ☑ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER
*

DATE
10/28/11

NOTES:

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| UP69229 | 555 |

ROAD RUNNER TRUCK LINES

END DUMP ☑ BOTTOM DUMP ❑ TRANSFER ❑
ROLL-OFF(S) ❑ FLAT-BED ❑ VAN ❑ DRUMS ❑

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT
*

DATE

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ❑ SOIL | | |
| ❑ CONSTRUCTION DEBRIS | | |
| ❑ NON-FRIABLE ASBESTOS | | |
| ❑ WOOD | | |
| ❑ ASH | | |
| ❑ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620859

615589

**FORWARD INCORPORATED**

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 2357722 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 10:33 am |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 11:05 am |

| VEHICLE | ROLL OFF |
|---|---|
| MEZA 244 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

00 Gross Weight 77,740.00 lb Inbound -
Tare Weight 31,340.00 lb
Net Weight 46,400.00 lb 23.20 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 23.20 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620855

DRIVER SIGNATURE Gilbert [signature]

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

NS-33

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925 556 3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** — * | **DATE** 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, If the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** — * | **DATE** 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9E24199 | 244 |

MEZA TRUCKING

| END DUMP | BOTTOM DUMP | TRANSFER | |
|---|---|---|---|
| ☒ | ☐ | ☒ | |
| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
| ☐ | ☐ | ☐ | ☐ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** — * | **DATE** 10/28/11

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☒ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620855

615590

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235724 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 10:36 am |
| **DATE OUT** | **TIME OUT** |
| 28 October 2011 | 11:07 am |
| **VEHICLE** | **ROLL OFF** |
| MEZA 243 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

00 Gross Weight 84,660.00 lb Inbound -
Tare Weight 32,180.00 lb
Net Weight 52,480.00 lb 26.24 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 26.24 | TN | SW-CONT SOIL | | | | |

MANIFEST# 62056

DRIVER SIGNATURE

| |
|---|
| NET AMOUNT |
| TENDERED |
| CHANGE |
| CHECK NO. |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-3301

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** *
**DATE** 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☑ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☑ HARD HAT
☐ TY-VEK ☑ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** *
**DATE** 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
| --- | --- |
| 7R62249 | 243 |

MEZA TRUCKING

☐ END DUMP ☐ BOTTOM DUMP ☒ TRANSFER
☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** *
**DATE** 10/28/11

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
| --- | --- | --- |
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620856

615579

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235695 | |

WEIGHMASTER: CHRISTINA G

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 9:57 am |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 10:18 am |

| VEHICLE | ROLL OFF |
|---|---|
| TNT 12 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

01 Gross Weight 80,440.00 lb Inbound --
Tare Weight 31,500.00 lb
Net Weight 48,940.00 lb 24.47 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 24.47 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620657

DRIVER SIGNATURE

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925 556 3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE: * [signature]
DATE: 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

WASTE ACCEPTANCE NO.
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER: * [signature]
DATE: 10/28/11

NOTES:

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 7385350 | 12 |

TNT

| END DUMP | BOTTOM DUMP | TRANSFER |
|---|---|---|
| ☒ | ☐ | ☐ |

| ROLL-OFF(S) | FLAT-BED | VAN | DRUMS |
|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ |

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT: * [signature]
DATE:

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620857

644347

**FORWARD**
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235659 | |

WEIGHMASTER
BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 9:19 am |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 9:19 am |

| VEHICLE | ROLL OFF |
|---|---|
| ROAD 777 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

Gross Weight 78,420.00 lb Inbound –
Stored Tare Weight 32,440.00 lb
Net Weight 45,980.00 lb 22.99 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 22.99 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620852

DRIVER SIGNATURE ______________

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

| | | | | |
|---|---|---|---|---|
| ☐ **Keller Canyon Sanitary Landfill**<br>901 Bailey Road<br>Pittsburg, CA 94565<br>Phone (925) 458-9800<br>Fax (925) 458-9891 | ☐ **Coffin Butte Landfill**<br>28972 Coffin Butte Road<br>Corvallis, OR 97330<br>Phone (541) 745-2018<br>Fax (541) 745-3826 | ☐ **Ox Mountain Sanitary Landfill**<br>12310 San Mateo Road<br>Half Moon Bay, CA 94019<br>Phone (650) 726-1819<br>Fax (650) 726-9183 | ☐ **Newby Island Sanitary Landfill**<br>1601 Dixon Landing Road<br>Milpitas, CA 95035<br>Phone (408) 945-2800<br>Fax (408) 262-2871 | ☒ **Forward Landfill**<br>9999 S. Austin Road<br>Manteca, CA 95336<br>Phone (209) 982-4298<br>Fax (209) 982-1009 |

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-2001

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** — **DATE**
* 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
- ☒ GLOVES
- ☐ GOGGLES
- ☐ RESPIRATOR
- ☒ HARD HAT
- ☐ TY-VEK
- ☒ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** — **DATE**
* 10/28/11

| NOTES: | VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|---|
| | VP72830 | 777 |

ROAD RUNNER TRUCK LINES

- ☒ END DUMP
- ☐ BOTTOM DUMP
- ☐ TRANSFER
- ☐ ROLL-OFF(S)
- ☐ FLAT-BED
- ☐ VAN
- ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** — **DATE**
*

**CUBIC YARDS**

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620852

644341

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235653 | |

WEIGHMASTER
BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 9:11 am |
| DATE OUT | TIME OUT |
| 28 October 2011 | 9:11 am |
| VEHICLE | ROLL OFF |
| ROAD 555 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

Gross Weight 79,300.00 lb Inbound -
Stored Tare Weight 31,340.00 lb
Net Weight 47,960.00 lb 23.98 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 23.98 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620851

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

DRIVER SIGNATURE HJose

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

| ☐ Keller Canyon Sanitary Landfill | ☐ Coffin Butte Landfill | ☐ Ox Mountain Sanitary Landfill | ☐ Newby Island Sanitary Landfill | ☒ Forward Landfill |
|---|---|---|---|---|
| 901 Bailey Road<br>Pittsburg, CA 94565<br>Phone (925) 458-9800<br>Fax (925) 458-9891 | 28972 Coffin Butte Road<br>Corvallis, OR 97330<br>Phone (541) 745-2018<br>Fax (541) 745-3826 | 12310 San Mateo Road<br>Half Moon Bay, CA 94019<br>Phone (650) 726-1819<br>Fax (650) 726-9183 | 1601 Dixon Landing Road<br>Milpitas, CA 95035<br>Phone (408) 945-2800<br>Fax (408) 262-2871 | 9999 S. Austin Road<br>Manteca, CA 95336<br>Phone (209) 982-4298<br>Fax (209) 982-1009 |

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** *
**DATE** 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT ☐ TY-VEK ☒ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** *
**DATE** 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| UP69229 | 555 |

Road Runner Truck Lines

☒ END DUMP ☐ BOTTOM DUMP ☐ TRANSFER ☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** *
**DATE**

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620851

644328

# FORWARD INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235640 | |

WEIGHMASTER: BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 8:53 am |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 8:53 am |

| VEHICLE | ROLL OFF |
|---|---|
| PUNO 2223 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

Gross Weight 78,520.00 lb Inbound -
Stored Tare Weight 30,940.00 lb
Net Weight 47,580.00 lb 23.79 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 23.79 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620850

DRIVER SIGNATURE

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

ALLIED WASTE SERVICES

A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-3201

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE** | **DATE**
* [signature] | 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, If the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
☒ GLOVES ☐ GOGGLES ☐ RESPIRATOR ☒ HARD HAT
☐ TY-VEK ☒ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC.

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER** | **DATE**
* [signature] | 10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9D34849 | 2223 |

I.E.C Puno Trucking

☒ END DUMP ☐ BOTTOM DUMP ☐ TRANSFER
☐ ROLL-OFF(S) ☐ FLAT-BED ☐ VAN ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT** | **DATE**
* [signature] |

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620850

644367

# FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235679 | |

WEIGHMASTER: BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 9:29 am |
| **DATE OUT** | **TIME OUT** |
| 28 October 2011 | 9:48 am |
| **VEHICLE** | **ROLL OFF** |
| GILL Y96 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

01 Gross Weight 68,100.00 lb Inbound -
Tare Weight 33,300.00 lb
Net Weight 34,800.00 lb 17.40 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 17.40 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620853

DRIVER SIGNATURE ____________

| NET AMOUNT |
|---|
| |
| TENDERED |
| |
| CHANGE |
| |
| CHECK NO. |
| |

ALLIED WASTE SERVICES

A REPUBLIC SERVICES COMPANY

☐ **Keller Canyon Sanitary Landfill**
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ **Coffin Butte Landfill**
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ **Ox Mountain Sanitary Landfill**
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ **Newby Island Sanitary Landfill**
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☒ **Forward Landfill**
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

GENERATOR
CROWN CHEVY CADILLAC ISUZU

MAILING ADDRESS
7544 DUBLIN BLVD.

CITY, STATE, ZIP
DUBLIN, CA 94568

PHONE
925-556-3201

CONTACT PERSON
PATRICK COSTELLO

SIGNATURE OF AUTHORIZED AGENT / TITLE: *
DATE: 10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

WASTE TYPE:
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

GENERATING FACILITY
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
- ☒ GLOVES
- ☐ GOGGLES
- ☐ RESPIRATOR
- ☒ HARD HAT
- ☐ TY-VEK
- ☒ SAFETY VEST

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

TRANSPORTER
DENBESTE TRANSPORTATION INC.

ADDRESS
810 DENBESTE CT. SUITE 107

CITY, STATE, ZIP
WINDSOR, CA 95492

PHONE
800-838-1477

SIGNATURE OF AUTHORIZED AGENT OR DRIVER: * [signature]
DATE: 10/28/11

NOTES:

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9B92293 | Y96 |

GILL TRUCKING

- ☒ END DUMP
- ☐ BOTTOM DUMP
- ☐ TRANSFER
- ☐ ROLL-OFF(S)
- ☐ FLAT-BED
- ☐ VAN
- ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT: * [signature]
DATE:

CUBIC YARDS

DISPOSAL METHOD: (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

**SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.**

SALES COPY

MANIFEST # 620853

644361

FORWARD
INCORPORATED

9999 South Austin Road/WEIGHING LOCATION
Manteca, CA 95336
Landfill: (209) 982-4298/WEIGHING LOCATION
Resource Recovery: (209) 982-4298

1145 W. Charterway
Stockton, CA 95206
Main Office: (209) 466-4482
Fax: (209) 465-0631

010123
PACIFIC STATES ENVIRONMENTAL
GARY OVERTON
11555 DUBLIN BLVD.
DUBLIN, CA 94568
Contract: 42041110739

| SITE | TICKET | GRID |
|---|---|---|
| Y8 | 235673 | |

WEIGHMASTER: BB00078 BRIDGETTE B

| DATE IN | TIME IN |
|---|---|
| 28 October 2011 | 9:37 am |

| DATE OUT | TIME OUT |
|---|---|
| 28 October 2011 | 9:37 am |

| VEHICLE | ROLL OFF |
|---|---|
| J & J 128 | |

| REFERENCE | ORIGIN |
|---|---|
| | DUBLIN |

Gross Weight 79,400.00 lb Inbound --
Stored Tare Weight 31,500.00 lb
Net Weight 47,900.00 lb 23.95 TN

| QTY. | UNIT | DESCRIPTION | RATE | EXTENSION | TAX | TOTAL |
|---|---|---|---|---|---|---|
| 23.95 | TN | SW-CONT SOIL | | | | |

MANIFEST# 620854

DRIVER SIGNATURE Rahman D. Harden

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

☐ Keller Canyon Sanitary Landfill
901 Bailey Road
Pittsburg, CA 94565
Phone (925) 458-9800
Fax (925) 458-9891

☐ Coffin Butte Landfill
28972 Coffin Butte Road
Corvallis, OR 97330
Phone (541) 745-2018
Fax (541) 745-3826

☐ Ox Mountain Sanitary Landfill
12310 San Mateo Road
Half Moon Bay, CA 94019
Phone (650) 726-1819
Fax (650) 726-9183

☐ Newby Island Sanitary Landfill
1601 Dixon Landing Road
Milpitas, CA 95035
Phone (408) 945-2800
Fax (408) 262-2871

☑ Forward Landfill
9999 S. Austin Road
Manteca, CA 95336
Phone (209) 982-4298
Fax (209) 982-1009

# NON-HAZARDOUS WASTE MANIFEST

**GENERATOR**
CROWN CHEVY CADILLAC ISUZU

**MAILING ADDRESS**
7544 DUBLIN BLVD.

**CITY, STATE, ZIP**
DUBLIN, CA 94568

**PHONE**
925-556-3301

**CONTACT PERSON**
PATRICK COSTELLO

**SIGNATURE OF AUTHORIZED AGENT / TITLE**
* [signature]

**DATE**
10/28/11

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or title 22 of the California code of regulations, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; **AND, if the waste is a treatment residue of a previously restricted hazardous waste** subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

**WASTE TYPE:**
- ☐ DISPOSAL
- ☐ CONSTRUCTION
- ☐ DEBRIS
- ☐ SPECIAL WASTE
- ☐ SLUDGE
- ☐ WOOD
- ☐ OTHER

**GENERATING FACILITY**
7544 DUBLIN BLVD. AND 6707 GOLDEN GATE DRIVE, DUBLIN, CA

**WASTE ACCEPTANCE NO.**
– 10123

**REQUIRED PERSONAL PROTECTIVE EQUIPMENT**
- ☑ GLOVES
- ☐ GOGGLES
- ☐ RESPIRATOR
- ☑ HARD HAT
- ☐ TY-VEK
- ☑ SAFETY VEST

**SPECIAL HANDLING PROCEDURES:**

**RECEIVING FACILITY**

**TRANSPORTER**
DENBESTE TRANSPORTATION INC

**ADDRESS**
810 DENBESTE CT. SUITE 107

**CITY, STATE, ZIP**
WINDSOR, CA 95492

**PHONE**
800-838-1477

**SIGNATURE OF AUTHORIZED AGENT OR DRIVER**
* Ralman D. Harden

**DATE**
10/28/11

**NOTES:**

| VEHICLE LICENSE NUMBER | TRUCK NUMBER |
|---|---|
| 9E40140 | ~~707~~ 128 |

J & J TRANSPORT

- ☑ END DUMP
- ☐ BOTTOM DUMP
- ☐ TRANSFER
- ☐ ROLL-OFF(S)
- ☐ FLAT-BED
- ☐ VAN
- ☐ DRUMS

**I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.**

**REMARKS**

**FACILITY TICKET NUMBER**

**SIGNATURE OF AUTHORIZED AGENT**
* [signature]

**DATE**

**CUBIC YARDS**

**DISPOSAL METHOD:** (TO BE COMPLETED BY LANDFILL)

| | DISPOSE | OTHER |
|---|---|---|
| ☐ SOIL | | |
| ☐ CONSTRUCTION DEBRIS | | |
| ☐ NON-FRIABLE ASBESTOS | | |
| ☐ WOOD | | |
| ☐ ASH | | |
| ☐ SPECIAL OTHER | | |

SCHEDULING MUST BE MADE PRIOR TO 3:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE.

SALES COPY

MANIFEST # 620854

REPUBLIC SERVICES, INC.

# Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

| | | | |
|---|---|---|---|
| | **Waste Profile #** 42041110739 | **Expiration Date** 7/8/2012 | |
| **I. Decision Request:** | ☑ Initial | ☐ Recertification | ☐ Change |

**Disposal Facility:** 4204 - Forward L/F

**Generator Name:** Crown Chevy Cadillac Isuzu

**Generator Site Address:** 7544 Dublin Blvd

| | | | |
|---|---|---|---|
| **City:** Dublin | **County:** | **State:** CA | **Zip:** |

**Name of Waste:** VOC affected soil

**Estimated Annual Volume:** 350 Tons

**II. Special Waste Department Decision:** ☑ Approved ☐ Rejected

**Management Method(s):** ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Transfer Facility

**Problematic Special Waste according to Republic?** ☐ Yes ☑ No

**If yes, which one?**

**Approved by Special Waste Review Committee?** ☐ Yes ☐ No ☑ Not Applicable

**Precautions, Conditions or Limitations on Approval**

**Special Waste Analyst Signature:** Leslie Hamilton

**Name (Printed):** Leslie Hamilton

**Date: 7/14/2011**

**III. Facility Decision:** ☐ Approved ☐ Rejected

**Precautions, Conditions or Limitations on Approval**

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

**General Manager or Designee:** ____________________________

**Name (Printed):** ____________________________

**Date: 7/14/2011**

## APPENDIX D

Industrial Wastewater Discharge Permit, Sampling and Flow Report

November 22, 2011

Mr. Erik Kuefner
Dublin San Ramon Services District
Environmental Compliance Section
7399 Johnson Drive
Pleasanton, California 94588

**Subject:** **Sampling and Flow Report for Discharge of Excavation Water Under Industrial Wastewater Discharge Permit No. 11012**
Crown Chevrolet Cadillac Isuzu
7544 Dublin Boulevard and 6707 Golden Gate Drive
Dublin, California

Dear Mr. Kuefner:

Attached for your review and approval are the analytical laboratory reports for a waste water sample that was collected by AMEC Geomatrix, Inc. (AMEC), on November 15, 2011, at the Crown Chevrolet Cadillac Isuzu facility located at 7544 Dublin Boulevard, in Dublin, California (the site). The sample was collected from the water currently contained in an on-site storage tank; the water represents groundwater that was removed from an on-site excavation. This letter has been prepared in accordance with the requirements listed in Industrial Wastewater Discharge Permit No. 11012 (the permit).

Sampling Report

The sample was analyzed for Total Toxic Organic Compounds using EPA Method 624 and 625; and total petroleum hydrocarbons quantified as gasoline and diesel using EPA Method 8015. Following your verbal approval during our telephone call on November 15, 2011, the sample was not analyzed using EPA Method 602 for benzene, toluene, ethylbenzene, and xylenes (BTEX), because these compounds are already included in the EPA 624 method. The sample was analyzed by Alpha Analytical, a California Department of Health-certified analytical laboratory located in Sparks, Nevada.

The analytical laboratory results show that the excavation water currently contained in the on-site baker tank meets the discharge limits listed in Appendix A of the permit.

Flow Report

Approximately 5,600 gallons of water are currently stored in the tank. Pacific States Environmental, the contractor who performed the excavation, will discharge this water by letting it gravity feed into the sanitary sewer cleanout located inside the building as shown in the figure included in the permit. The flow rate will not exceed 100 gallons per minute. This will be conducted during the week of November 28, 2011, or the following week. The discharge will cease when no more liquid flows from the tank via gravity flow. Residual liquid and solids that have settled to the bottom of the tank will not be discharged. They will be disposed of off-site, at an appropriately licensed waste disposal facility.

Erik Kuefner
Dublin San Ramon Services District
November 22, 2011
Page 2

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely yours,

Patrick Costello
Owner
Crown Chevrolet Cadillac Isuzu

Attachment: Analytical Laboratory Report, Alpha Analytical

Cc: Andrew Lojo, AMEC Geomatrix, Inc.
Avery Patton, AMEC Geomatrix, Inc.
Gary Overton, Pacific States Environmental

# *Alpha Analytical, Inc.*

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


**Date:** *21-Nov-11*

Andrew Lojo
AMEC Geomatrix Consultants
2101 Webster Street 12th Floor
Oakland, CA 94612
(510) 663-4153

## CASE NARRATIVE

**Job:** Crovon Chevy

**Work Order:** GMT11111643 **Cooler Temp:** 0 °C

| Alpha's Sample ID | Client's Sample ID | Matrix |
|---|---|---|
| 11111643-01A | EX-WATER-TANK-2 | Aqueous |

Enclosed please find the analytical results of the samples received by Alpha Analytical, Inc. under the above mentioned Work Order/Chain-of-Custody.

Alpha Analytical, Inc. has a formal Quality Assurance/Quality Control program, which is designed to meet or exceed the EPA requirements. All relevant QC met quality assurance objectives for this project unless otherwise stated in the footnotes.

All analyses performed by Alpha Analytical, Inc. were under Certification Number 2019 by the California Department of Health Services.

If you have any questions with regards to this report, please contact Randy Gardner, Project Manager, at (800) 283-1183.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


## ANALYTICAL REPORT

AMEC Geomatrix Consultants
2101 Webster Street
Oakland, CA 94612
Job: Crovon Chevy

Attn: Andrew Lojo
Phone: (510) 663-4153
Fax: (510) 663-4141

Alpha Analytical Number: GMT11111643-01A
Client I.D. Number: EX-WATER-TANK-2

Sampled: 11/15/11 16:45
Received: 11/16/11
Extracted: 11/15/11 12:10
Analyzed: 11/16/11

Semivolatile Organics by GC/MS
EPA Method 625

| | Compound | Concentration | Reporting Limit | |
|---|---|---|---|---|
| 1 | N-Nitrosodimethylamine | ND | 50 | µg/L |
| 2 | Phenol | ND | 10 | µg/L |
| 3 | 2-Chlorophenol | ND | 10 | µg/L |
| 4 | Bis(2-chloroethyl)ether | ND | 10 | µg/L |
| 5 | Bis(2-chloroisopropyl)ether | ND | 10 | µg/L |
| 6 | N-Nitrosodi-n-propylamine | ND | 10 | µg/L |
| 7 | Hexachloroethane | ND | 20 | µg/L |
| 8 | Nitrobenzene | ND | 10 | µg/L |
| 9 | Isophorone | ND | 10 | µg/L |
| 10 | 2-Nitrophenol | ND | 10 | µg/L |
| 11 | 2,4-Dimethylphenol | ND | 10 | µg/L |
| 12 | Bis(2-chloroethoxy)methane | ND | 10 | µg/L |
| 13 | 2,4-Dichlorophenol | ND | 10 | µg/L |
| 14 | 1,2,4-Trichlorobenzene | ND | 10 | µg/L |
| 15 | Naphthalene | ND | 10 | µg/L |
| 16 | Hexachlorobutadiene | ND | 20 | µg/L |
| 17 | 4-Chloro-3-methylphenol | ND | 20 | µg/L |
| 18 | Hexachlorocyclopentadiene | ND | 100 | µg/L |
| 19 | 2,4,6-Trichlorophenol | ND | 10 | µg/L |
| 20 | 2-Chloronaphthalene | ND | 10 | µg/L |
| 21 | Dimethyl phthalate | ND | 10 | µg/L |
| 22 | Acenaphthylene | ND | 10 | µg/L |
| 23 | 2,6-Dinitrotoluene | ND | 10 | µg/L |
| 24 | Acenaphthene | ND | 10 | µg/L |
| 25 | 2,4-Dinitrophenol | ND | 100 | µg/L |
| 26 | 4-Nitrophenol | ND | 50 | µg/L |
| 27 | 2,4-Dinitrotoluene | ND | 10 | µg/L |
| 28 | Diethyl phthalate | ND | 10 | µg/L |
| 29 | Fluorene | ND | 10 | µg/L |
| 30 | 4-Chlorophenyl phenyl ether | ND | 10 | µg/L |
| 31 | 4,6-Dinitro-2-methylphenol | ND | 100 | µg/L |
| 32 | N-Nitrosodiphenylamine | ND | 10 | µg/L |
| 33 | 4-Bromophenyl phenyl ether | ND | 10 | µg/L |
| 34 | Hexachlorobenzene | ND | 10 | µg/L |
| 35 | Pentachlorophenol | ND | 50 | µg/L |
| 36 | Phenanthrene | ND | 10 | µg/L |
| 37 | Anthracene | ND | 10 | µg/L |
| 38 | Di-n-butyl phthalate | ND | 50 | µg/L |
| 39 | Fluoranthene | ND | 10 | µg/L |
| 40 | Pyrene | ND | 10 | µg/L |
| 41 | Benzidine | ND | 100 | µg/L |
| 42 | Butyl benzyl phthalate | ND | 20 | µg/L |
| 43 | Benzo(a)anthracene | ND | 10 | µg/L |
| 44 | 3,3´-Dichlorobenzidine | ND | 20 | µg/L |
| 45 | Chrysene | ND | 10 | µg/L |
| 46 | Bis(2-ethylhexyl)phthalate | ND | 50 | µg/L |
| 47 | Di-n-octyl phthalate | ND | 50 | µg/L |
| 48 | Benzo(b)fluoranthene | ND | 10 | µg/L |
| 49 | Benzo(k)fluoranthene | ND | 10 | µg/L |
| 50 | Benzo(a)pyrene | ND | 10 | µg/L |
| 51 | Indeno(1,2,3-cd)pyrene | ND | 10 | µg/L |
| 52 | Dibenz(a,h)anthracene | ND | 10 | µg/L |
| 53 | Benzo(g,h,i)perylene | ND | 10 | µg/L |
| 54 | Surr: 2-Fluorophenol | 42 | (26-130) | %REC |
| 55 | Surr: Phenol-d5 | 25 | (17-130) | %REC |
| 56 | Surr: Nitrobenzene-d5 | 78 | (48-132) | %REC |
| 57 | Surr: 2-Fluorobiphenyl | 80 | (35-130) | %REC |
| 58 | Surr: 2,4,6-Tribromophenol | 57 | (36-151) | %REC |
| 59 | Surr: 4-Terphenyl-d14 | 86 | (51-144) | %REC |

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com



11/17/11
**Report Date**

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Geomatrix Consultants
2101 Webster Street
Oakland, CA 94612

Attn: Andrew Lojo
Phone: (510) 663-4153
Fax: (510) 663-4141
Date Received : 11/16/11

Job: Crovon Chevy

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

| | | Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---|---|---|---|---|---|
| Client ID : | EX-WATER-TANK-2 | | | | | |
| Lab ID : | GMT11111643-01A | TPH-E (DRO) | 0.094 J Z | 0.050 mg/L | 11/16/11 | 11/16/11 |
| Date Sampled | 11/15/11 16:45 | Surr: Nonane | 121 | (49-145) %REC | 11/16/11 | 11/16/11 |
| | | TPH-P (GRO) | ND | 0.050 mg/L | 11/16/11 | 11/16/11 |
| | | Surr: 1,2-Dichloroethane-d4 | 98 | (70-130) %REC | 11/16/11 | 11/16/11 |
| | | Surr: Toluene-d8 | 98 | (70-130) %REC | 11/16/11 | 11/16/11 |
| | | Surr: 4-Bromofluorobenzene | 104 | (70-130) %REC | 11/16/11 | 11/16/11 |

Diesel Range Organics (DRO) C13-C22
Gasoline Range Organics (GRO) C4-C13
Z = DRO concentration may include contributions from lighter-end and heavier-end hydrocarbons that elute in the DRO range.
ND = Not Detected

Roger Scholl    Randy Gardner    Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.
Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

11/17/11
**Report Date**

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Geomatrix Consultants
2101 Webster Street
Oakland, CA 94612
Job: Crovon Chevy

Attn: Andrew Lojo
Phone: (510) 663-4153
Fax: (510) 663-4141

Alpha Analytical Number: GMT11111643-01A
Client I.D. Number: EX-WATER-TANK-2

Sampled: 11/15/11 16:45
Received: 11/16/11
Extracted: 11/16/11
Analyzed: 11/16/11

Volatile Organics by GC/MS
EPA Method 624/SW8260B

| | Compound | Concentration | Reporting Limit |
|---|---|---|---|
| 1 | Chloromethane | ND | 2.0 µg/L |
| 2 | Vinyl chloride | ND | 1.0 µg/L |
| 3 | Chloroethane | ND | 1.0 µg/L |
| 4 | Bromomethane | ND | 2.0 µg/L |
| 5 | Trichlorofluoromethane | ND | 1.0 µg/L |
| 6 | 1,1-Dichloroethene | ND | 1.0 µg/L |
| 7 | Dichloromethane | ND | 2.0 µg/L |
| 8 | trans-1,2-Dichloroethene | ND | 1.0 µg/L |
| 9 | 1,1-Dichloroethane | ND | 1.0 µg/L |
| 10 | Chloroform | ND | 1.0 µg/L |
| 11 | 1,2-Dichloroethane | ND | 1.0 µg/L |
| 12 | 1,1,1-Trichloroethane | ND | 1.0 µg/L |
| 13 | Carbon tetrachloride | ND | 1.0 µg/L |
| 14 | Benzene | ND | 1.0 µg/L |
| 15 | 1,2-Dichloropropane | ND | 1.0 µg/L |
| 16 | Trichloroethene | ND | 1.0 µg/L |
| 17 | Bromodichloromethane | ND | 1.0 µg/L |
| 18 | 2-Chloroethylvinylether | ND * | 5.0 µg/L |
| 19 | cis-1,3-Dichloropropene | ND | 1.0 µg/L |
| 20 | trans-1,3-Dichloropropene | ND | 1.0 µg/L |
| 21 | 1,1,2-Trichloroethane | ND | 1.0 µg/L |
| 22 | Toluene | ND | 1.0 µg/L |
| 23 | Dibromochloromethane | ND | 1.0 µg/L |
| 24 | Tetrachloroethene | ND | 1.0 µg/L |
| 25 | Chlorobenzene | ND | 1.0 µg/L |
| 26 | Ethylbenzene | ND | 1.0 µg/L |
| 27 | Bromoform | ND | 1.0 µg/L |
| 28 | 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 29 | 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 30 | 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 31 | 1,2-Dichlorobenzene | 3.6 | 1.0 µg/L |
| 32 | Surr: 1,2-Dichloroethane-d4 | 98 | (70-130) %REC |
| 33 | Surr: Toluene-d8 | 98 | (70-130) %REC |
| 34 | Surr: 4-Bromofluorobenzene | 104 | (70-130) %REC |

*Analyte was analyzed separately on 11/17/11.

ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com



11/17/11
**Report Date**

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

# VOC Sample Preservation Report

**Work Order:** GMT11111643 **Job:** Crovon Chevy

| Alpha's Sample ID | Client's Sample ID | Matrix | pH |
|---|---|---|---|
| 11111643-01A | EX-WATER-TANK-2 | Aqueous | 2 |

11/17/11
**Report Date**

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


**Date:**
*21-Nov-11*

## Sample Batch Summary Report

**GMT11111643**

| Test Code | Batch ID | Alpha's Lab ID | Client's Sample ID | Analytical Date |
|---|---|---|---|---|
| BNA_W | 27704 | GMT11111643-01A | EX-WATER-TANK-2 | 11/16/2011 |
| TPH/E_W | 27716 | GMT11111643-01A | EX-WATER-TANK-2 | 11/16/2011 |
| TPH/P_W | MS15W1116B | GMT11111643-01A | EX-WATER-TANK-2 | 11/16/2011 |
| VOC_W | MS15W1116A | GMT11111643-01A | EX-WATER-TANK-2 | 11/16/2011 |

# *Alpha Analytical, Inc.*

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


# Dilution Factor Report

**Work Order:** GMT11111643 **Job:** Crovon Chevy

| Sample ID | Client Sample ID | | Test Name | Analysis Date | Dilution Factor |
|---|---|---|---|---|---|
| 11111643-01A | EX-WATER-TANK-2 | SW8270C | Semivolatile Organics by GC/MS | 11/16/2011 | 1.0 |
| | | SW8015 | Total Petroleum Hydrocarbons-Extractable | 11/16/2011 | 1.0 |
| | | SW8015 | Total Petroleum Hydrocarbons-Purgeable | 11/16/2011 | 1.0 |
| | | SW8260B | Volatile Organics by GC/MS | 11/16/2011 | 1.0 |

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:** *21-Nov-11*

# QC Summary Report

**Work Order:** 11111643

**Method Blank** Type: **MBLK** Test Code: **EPA Method 625**

File ID: **11111604.D** Batch ID: **27704I** Analysis Date: **11/16/2011 12:24**

Sample ID: **MBLK-27704** Units : **µg/L** Run ID: **MSD_16_111115A** Prep Date: **11/15/2011 12:10**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| N-Nitrosodimethylamine | ND | 50 | | | | | | | | |
| Phenol | ND | 10 | | | | | | | | |
| 2-Chlorophenol | ND | 10 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 10 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 10 | | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 10 | | | | | | | | |
| Hexachloroethane | ND | 20 | | | | | | | | |
| Nitrobenzene | ND | 10 | | | | | | | | |
| Isophorone | ND | 10 | | | | | | | | |
| 2-Nitrophenol | ND | 10 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 10 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 10 | | | | | | | | |
| Naphthalene | ND | 10 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 20 | | | | | | | | |
| Hexachlorobutadiene | ND | 20 | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 100 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | | | | | | | | |
| 2-Chloronaphthalene | ND | 10 | | | | | | | | |
| Dimethyl phthalate | ND | 10 | | | | | | | | |
| Acenaphthylene | ND | 10 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 10 | | | | | | | | |
| Acenaphthene | ND | 10 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 100 | | | | | | | | |
| 4-Nitrophenol | ND | 50 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 10 | | | | | | | | |
| Diethyl phthalate | ND | 10 | | | | | | | | |
| Fluorene | ND | 10 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 10 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 100 | | | | | | | | |
| N-Nitrosodiphenylamine | ND | 10 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 10 | | | | | | | | |
| Hexachlorobenzene | ND | 10 | | | | | | | | |
| Pentachlorophenol | ND | 50 | | | | | | | | |
| Phenanthrene | ND | 10 | | | | | | | | |
| Anthracene | ND | 10 | | | | | | | | |
| Di-n-butyl phthalate | ND | 50 | | | | | | | | |
| Fluoranthene | ND | 10 | | | | | | | | |
| Pyrene | ND | 10 | | | | | | | | |
| Benzidine | ND | 100 | | | | | | | | |
| Butyl benzyl phthalate | ND | 20 | | | | | | | | |
| Benzo(a)anthracene | ND | 10 | | | | | | | | |
| 3,3´-Dichlorobenzidine | ND | 20 | | | | | | | | |
| Chrysene | ND | 10 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 50 | | | | | | | | |
| Di-n-octyl phthalate | ND | 50 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 10 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 10 | | | | | | | | |
| Benzo(a)pyrene | ND | 10 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 10 | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 10 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 10 | | | | | | | | |
| Surr: 2-Fluorophenol | 118 | | 200 | | 59 | 26 | 130 | | | |
| Surr: Phenol-d5 | 76.3 | | 200 | | 38 | 17 | 130 | | | |
| Surr: Nitrobenzene-d5 | 78.4 | | 100 | | 78 | 48 | 132 | | | |
| Surr: 2-Fluorobiphenyl | 97.4 | | 100 | | 97 | 35 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 147 | | 200 | | 74 | 36 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 90.9 | | 100 | | 91 | 51 | 144 | | | |

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:** *21-Nov-11*

## QC Summary Report

**Work Order:** 11111643

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 625**
File ID: **11111605.D** Batch ID: **27704I** Analysis Date: **11/16/2011 12:49**
Sample ID: **LCS-27704** Units : **µg/L** Run ID: **MSD_16_111115A** Prep Date: **11/15/2011 12:10**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 35 | 10 | 100 | | 35 | 5 | 112 | | | |
| 2-Chlorophenol | 70.1 | 10 | 100 | | 70 | 23 | 134 | | | |
| N-Nitrosodi-n-propylamine | 79.1 | 10 | 100 | | 79 | 1 | 230 | | | |
| 1,2,4-Trichlorobenzene | 57.8 | 10 | 100 | | 58 | 44 | 142 | | | |
| 4-Chloro-3-methylphenol | 65.1 | 20 | 100 | | 65 | 22 | 147 | | | |
| Acenaphthene | 69.8 | 10 | 100 | | 70 | 47 | 145 | | | |
| 4-Nitrophenol | 105 | 50 | 400 | | 26 | 1 | 132 | | | |
| 2,4-Dinitrotoluene | 78.6 | 10 | 100 | | 79 | 39 | 139 | | | |
| Pentachlorophenol | 250 | 50 | 400 | | 63 | 14 | 176 | | | |
| Pyrene | 77.2 | 10 | 100 | | 77 | 52 | 115 | | | |
| Surr: 2-Fluorophenol | 133 | | 200 | | 67 | 26 | 130 | | | |
| Surr: Phenol-d5 | 95.5 | | 200 | | 48 | 17 | 130 | | | |
| Surr: Nitrobenzene-d5 | 83.6 | | 100 | | 84 | 48 | 132 | | | |
| Surr: 2-Fluorobiphenyl | 92.6 | | 100 | | 93 | 35 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 225 | | 200 | | 112 | 36 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 107 | | 100 | | 107 | 51 | 144 | | | |

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 625**
File ID: **11111609.D** Batch ID: **27704I** Analysis Date: **11/16/2011 16:13**
Sample ID: **11111643-01AMS** Units : **µg/L** Run ID: **MSD_16_111115A** Prep Date: **11/15/2011 12:10**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 20 | 10 | 100 | 0 | 20 | 5 | 112 | | | |
| 2-Chlorophenol | 49.4 | 10 | 100 | 0 | 49 | 23 | 134 | | | |
| N-Nitrosodi-n-propylamine | 67.2 | 10 | 100 | 0 | 67 | 1 | 230 | | | |
| 1,2,4-Trichlorobenzene | 58.3 | 10 | 100 | 0 | 58 | 44 | 142 | | | |
| 4-Chloro-3-methylphenol | 46.1 | 20 | 100 | 0 | 46 | 22 | 147 | | | |
| Acenaphthene | 61.2 | 10 | 100 | 0 | 61 | 47 | 145 | | | |
| 4-Nitrophenol | 45.7 | 50 | 400 | 0 | 11 | 1 | 132 | | | |
| 2,4-Dinitrotoluene | 60.1 | 10 | 100 | 0 | 60 | 39 | 139 | | | |
| Pentachlorophenol | 169 | 50 | 400 | 0 | 42 | 14 | 176 | | | |
| Pyrene | 61.3 | 10 | 100 | 0 | 61 | 52 | 115 | | | |
| Surr: 2-Fluorophenol | 86.9 | | 200 | | 43 | 26 | 130 | | | |
| Surr: Phenol-d5 | 56.9 | | 200 | | 28 | 17 | 130 | | | |
| Surr: Nitrobenzene-d5 | 68.5 | | 100 | | 68 | 48 | 132 | | | |
| Surr: 2-Fluorobiphenyl | 81.9 | | 100 | | 82 | 35 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 149 | | 200 | | 74 | 36 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 85.2 | | 100 | | 85 | 51 | 144 | | | |

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method 625**
File ID: **11111610.D** Batch ID: **27704I** Analysis Date: **11/16/2011 16:38**
Sample ID: **11111643-01AMSD** Units : **µg/L** Run ID: **MSD_16_111115A** Prep Date: **11/15/2011 12:10**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Phenol | 28.7 | 10 | 100 | 0 | 29 | 5 | 112 | 20.02 | 35.6(49) | |
| 2-Chlorophenol | 62.6 | 10 | 100 | 0 | 63 | 23 | 134 | 49.4 | 23.6(50) | |
| N-Nitrosodi-n-propylamine | 84 | 10 | 100 | 0 | 84 | 1 | 230 | 67.2 | 22.2(36) | |
| 1,2,4-Trichlorobenzene | 69.3 | 10 | 100 | 0 | 69 | 44 | 142 | 58.33 | 17.2(38) | |
| 4-Chloro-3-methylphenol | 58.2 | 20 | 100 | 0 | 58 | 22 | 147 | 46.05 | 23.4(38) | |
| Acenaphthene | 72.5 | 10 | 100 | 0 | 72 | 47 | 145 | 61.2 | 16.9(29) | |
| 4-Nitrophenol | 51.4 | 50 | 400 | 0 | 13 | 1 | 132 | 45.7 | 11.7(50) | |
| 2,4-Dinitrotoluene | 67.6 | 10 | 100 | 0 | 68 | 39 | 139 | 60.06 | 11.8(27) | |
| Pentachlorophenol | 222 | 50 | 400 | 0 | 55 | 14 | 176 | 169.2 | 26.9(50) | |
| Pyrene | 66 | 10 | 100 | 0 | 66 | 52 | 115 | 61.34 | 7.3(30) | |
| Surr: 2-Fluorophenol | 106 | | 200 | | 53 | 26 | 130 | | | |
| Surr: Phenol-d5 | 71.9 | | 200 | | 36 | 17 | 130 | | | |
| Surr: Nitrobenzene-d5 | 79.7 | | 100 | | 80 | 48 | 132 | | | |
| Surr: 2-Fluorobiphenyl | 95.6 | | 100 | | 96 | 35 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 163 | | 200 | | 82 | 36 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 86.7 | | 100 | | 87 | 51 | 144 | | | |

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:** *21-Nov-11*

# QC Summary Report

**Work Order:** 11111643

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


**Date:** *21-Nov-11*

## QC Summary Report

**Work Order:** 11111643

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C Ext**
File ID: **7A11161105.D** Batch ID: **27716** Analysis Date: **11/16/2011 15:01**
Sample ID: **MBLK-27716** Units : **mg/L** Run ID: **FID_7_111116A** Prep Date: **11/16/2011 13:16**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-E (DRO) | ND | 0.05 | | | | | | | | |
| Surr: Nonane | 0.122 | | 0.15 | | 81 | 49 | 145 | | | |

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C Ext**
File ID: **7A11161106.D** Batch ID: **27716** Analysis Date: **11/16/2011 15:28**
Sample ID: **LCS-27716** Units : **mg/L** Run ID: **FID_7_111116A** Prep Date: **11/16/2011 13:16**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-E (DRO) | 2.21 | 0.05 | 2.5 | | 88 | 70 | 130 | | | |
| Surr: Nonane | 0.135 | | 0.15 | | 90 | 49 | 145 | | | |

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C Ext**
File ID: **7A11161108.D** Batch ID: **27716** Analysis Date: **11/16/2011 16:20**
Sample ID: **11111520-19AMS** Units : **mg/L** Run ID: **FID_7_111116A** Prep Date: **11/16/2011 13:16**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-E (DRO) | 2.45 | 0.05 | 2.5 | 0.07 | 95 | 53 | 150 | | | |
| Surr: Nonane | 0.101 | | 0.15 | | 67 | 49 | 145 | | | |

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C Ext**
File ID: **7A11161109.D** Batch ID: **27716** Analysis Date: **11/16/2011 16:47**
Sample ID: **11111520-19AMSD** Units : **mg/L** Run ID: **FID_7_111116A** Prep Date: **11/16/2011 13:16**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-E (DRO) | 2.56 | 0.05 | 2.5 | 0.07 | 99 | 53 | 150 | 2.45 | 4.2(47) | |
| Surr: Nonane | 0.099 | | 0.15 | | 66 | 49 | 145 | | | |

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


**Date:** *21-Nov-11*

# QC Summary Report

**Work Order:** 11111643

## Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B/C**
File ID: **11111606.D** Batch ID: **MS15W1116B** Analysis Date: **11/16/2011 09:48**
Sample ID: **MBLK MS15W1116B** Units : **mg/L** Run ID: **MSD_15_111116A** Prep Date: **11/16/2011 09:48**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-P (GRO) | ND | 0.05 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.00946 | | 0.01 | | 95 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0101 | | 0.01 | | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0102 | | 0.01 | | 102 | 70 | 130 | | | |

## Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B/C**
File ID: **11111604.D** Batch ID: **MS15W1116B** Analysis Date: **11/16/2011 09:05**
Sample ID: **GLCS MS15W1116B** Units : **mg/L** Run ID: **MSD_15_111116A** Prep Date: **11/16/2011 09:05**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-P (GRO) | 0.392 | 0.05 | 0.4 | | 98 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.00947 | | 0.01 | | 95 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.01 | | 0.01 | | 100 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0103 | | 0.01 | | 103 | 70 | 130 | | | |

## Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B/C**
File ID: **11111629.D** Batch ID: **MS15W1116B** Analysis Date: **11/16/2011 18:03**
Sample ID: **11111643-01AGS** Units : **mg/L** Run ID: **MSD_15_111116A** Prep Date: **11/16/2011 18:03**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-P (GRO) | 1.89 | 0.25 | 2 | 0.05212 | 92 | 51 | 144 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0475 | | 0.05 | | 95 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0497 | | 0.05 | | 99 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0511 | | 0.05 | | 102 | 70 | 130 | | | |

## Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B/C**
File ID: **11111630.D** Batch ID: **MS15W1116B** Analysis Date: **11/16/2011 18:25**
Sample ID: **11111643-01AGSD** Units : **mg/L** Run ID: **MSD_15_111116A** Prep Date: **11/16/2011 18:25**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| TPH-P (GRO) | 1.94 | 0.25 | 2 | 0.05212 | 94 | 51 | 144 | 1.89 | 2.6(29) | |
| Surr: 1,2-Dichloroethane-d4 | 0.0473 | | 0.05 | | 95 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.049 | | 0.05 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0524 | | 0.05 | | 105 | 70 | 130 | | | |

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183


**Date:** 21-Nov-11

# QC Summary Report

**Work Order:** 11111643

## Method Blank

Type: MBLK  Test Code: **EPA Method 624/SW8260B**
File ID: **11111606.D**  Batch ID: **MS15W1116I**  Analysis Date: **11/16/2011 09:48**
Sample ID: **MBLK MS15W1116I**  Units : µg/L  Run ID: **MSD_15_111116B**  Prep Date: **11/16/2011 09:48**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | 2 | | | | | | | | |
| Vinyl chloride | ND | 1 | | | | | | | | |
| Chloroethane | ND | 1 | | | | | | | | |
| Bromomethane | ND | 2 | | | | | | | | |
| Trichlorofluoromethane | ND | 1 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1 | | | | | | | | |
| Dichloromethane | ND | 2 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1 | | | | | | | | |
| Chloroform | ND | 1 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1 | | | | | | | | |
| Carbon tetrachloride | ND | 1 | | | | | | | | |
| Benzene | ND | 1 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1 | | | | | | | | |
| Trichloroethene | ND | 1 | | | | | | | | |
| Bromodichloromethane | ND | 1 | | | | | | | | |
| 2-Chloroethylvinylether | ND | 5 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1 | | | | | | | | |
| Toluene | ND | 1 | | | | | | | | |
| Dibromochloromethane | ND | 1 | | | | | | | | |
| Tetrachloroethene | ND | 1 | | | | | | | | |
| Chlorobenzene | ND | 1 | | | | | | | | |
| Ethylbenzene | ND | 1 | | | | | | | | |
| Bromoform | ND | 1 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.46 | | 10 | | 95 | 70 | 130 | | | |
| Surr: Toluene-d8 | 10.1 | | 10 | | 101 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.2 | | 10 | | 102 | 70 | 130 | | | |

## Laboratory Control Spike

Type: LCS  Test Code: **EPA Method 624/SW8260B**
File ID: **11111603.D**  Batch ID: **MS15W1116I**  Analysis Date: **11/16/2011 08:43**
Sample ID: **LCS MS15W1116I**  Units : µg/L  Run ID: **MSD_15_111116B**  Prep Date: **11/16/2011 08:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 9.36 | 1 | 10 | | 94 | 1 | 234 | | | |
| Benzene | 9.55 | 0.5 | 10 | | 96 | 37 | 151 | | | |
| Trichloroethene | 9.76 | 1 | 10 | | 98 | 71 | 157 | | | |
| Toluene | 9.25 | 0.5 | 10 | | 93 | 47 | 150 | | | |
| Chlorobenzene | 9.4 | 1 | 10 | | 94 | 37 | 160 | | | |
| Ethylbenzene | 9.81 | 0.5 | 10 | | 98 | 37 | 162 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.44 | | 10 | | 94 | 70 | 130 | | | |
| Surr: Toluene-d8 | 10 | | 10 | | 100 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.5 | | 10 | | 105 | 70 | 130 | | | |

## Sample Matrix Spike

Type: MS  Test Code: **EPA Method 624/SW8260B**
File ID: **11111619.D**  Batch ID: **MS15W1116I**  Analysis Date: **11/16/2011 14:28**
Sample ID: **11111540-01AMS**  Units : µg/L  Run ID: **MSD_15_111116B**  Prep Date: **11/16/2011 14:28**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 45.2 | 2.5 | 50 | 0 | 90 | 1 | 234 | | | |
| Benzene | 46.3 | 1.3 | 50 | 0 | 93 | 37 | 151 | | | |
| Trichloroethene | 47.3 | 2.5 | 50 | 0 | 95 | 71 | 157 | | | |
| Toluene | 44.4 | 1.3 | 50 | 0 | 89 | 47 | 150 | | | |
| Chlorobenzene | 46 | 2.5 | 50 | 0 | 92 | 37 | 160 | | | |
| Ethylbenzene | 47.6 | 1.3 | 50 | 0 | 95 | 37 | 162 | | | |
| Surr: 1,2-Dichloroethane-d4 | 47.8 | | 50 | | 96 | 70 | 130 | | | |
| Surr: Toluene-d8 | 48.8 | | 50 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 51.3 | | 50 | | 103 | 70 | 130 | | | |

**Alpha Analytical, Inc.**

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:** *21-Nov-11*

# QC Summary Report

**Work Order:** 11111643

**Sample Matrix Spike Duplicate** Type: **MSD** Test Code: **EPA Method 624/SW8260B**

File ID: **11111620.D** Batch ID: **MS15W1116I** Analysis Date: **11/16/2011 14:50**

Sample ID: **11111540-01AMSD** Units : **µg/L** Run ID: **MSD_15_111116B** Prep Date: **11/16/2011 14:50**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 46.2 | 2.5 | 50 | 0 | 92 | 1 | 234 | 45.22 | 2.0(21) | |
| Benzene | 46.9 | 1.3 | 50 | 0 | 94 | 37 | 151 | 46.27 | 1.3(21) | |
| Trichloroethene | 48.2 | 2.5 | 50 | 0 | 96 | 71 | 157 | 47.25 | 1.9(20) | |
| Toluene | 45.1 | 1.3 | 50 | 0 | 90 | 47 | 150 | 44.41 | 1.6(20) | |
| Chlorobenzene | 46.9 | 2.5 | 50 | 0 | 94 | 37 | 160 | 45.97 | 1.9(20) | |
| Ethylbenzene | 48.3 | 1.3 | 50 | 0 | 97 | 37 | 162 | 47.58 | 1.6(20) | |
| Surr: 1,2-Dichloroethane-d4 | 53.6 | | 50 | | 107 | 70 | 130 | | | |
| Surr: Toluene-d8 | 49.5 | | 50 | | 99 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 51.9 | | 50 | | 104 | 70 | 130 | | | |

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

CA RUSH



**WorkOrder : GMT11111643**
**Report Due By : 5:00 PM On : 17-Nov-11**

Client:
AMEC Geomatrix Consultants
2101 Webster Street
12th Floor
Oakland, CA 94612

| Report Attention | Phone Number | EMail Address |
|---|---|---|
| Andrew Lojo | (510) 663-4153 x | andrew.lojo@amec.com |

EDD Required : Yes
Sampled by : Client

PO :
Client's COC # : none
Job : Crovon Chevy

| Cooler Temp | Samples Received | Date Printed |
|---|---|---|
| 0 °C | 16-Nov-11 | 16-Nov-11 |

QC Level : SC3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates and Chromatograms

| Alpha Sample ID | Client Sample ID | Matrix | Collection Date | No. of Bottles Alpha | Sub | TAT | Requested Tests: BNA_W | TPH/E_W | TPH/P_W | VOC_W | | | | | Sample Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GMT11111643-01A | EX-WATER-TANK-2 | AQ | 11/15/11 16:45 | 10 | 0 | 1 | Special Analyte List : 625 QC Criteria | TPH/E_C | GAS-C | Special Analyte List : 624 QC Criteria | | | | | |

**Comments:** No security seals. Frozen Ice. 24 TAT. :

| | Signature | Print Name | Company | Date/Time |
|---|---|---|---|---|
| **Logged in by:** | Sara Coffee | Sara Coffee | Alpha Analytical, Inc. | 11/16/11 10:05 |

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

15741

| | | | |
|---|---|---|---|
| PROJECT NAME: Crown Chevy | | DATE: 11/15/11 | PAGE 1 OF 1 |
| PROJECT NUMBER: OD10160070.00005.**** | LABORATORY NAME: Alpha | CLIENT INFORMATION: | REPORTING REQUIREMENTS: |
| RESULTS TO: Andy Lojo | LABORATORY ADDRESS: 255 Glendale Ave Suit 21, Sparks NE 89431 | | |
| TURNAROUND TIME: SEE/CHECK w/ ANDY LOJO | | | |
| SAMPLE SHIPMENT METHOD: Fed Ex 1222-9931-7 | LABORATORY CONTACT: | | GEOTRACKER REQUIRED YES NO |
| | LABORATORY PHONE NUMBER: | | SITE SPECIFIC GLOBAL ID NO. |

SAMPLERS (SIGNATURE):

ANALYSES

| DATE | TIME | SAMPLE NUMBER | TPHg (8260B) | TTO (624/625) | TPHd (8015) | CONTAINER TYPE AND SIZE | Soil (S), Water (W), Vapor (V), or Other (O) | Filtered | Preservative Type | Cooled | MS/MSD | No. of Containers | ADDITIONAL COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/15/11 | 1645 | EX-WATER-TANK-2 | | X | X | 1 LITER AMBER | W | N | N/A | Y | N | 4 | GMT1111643-01A |
| 11/15/11 | 1645 | EX-WATER-TANK-2 | X | X | | 40ML VOA | W | N | HCl | Y | N | 6 | |

| RELINQUISHED BY: | DATE | TIME | RECEIVED BY: FED EX | DATE | TIME | TOTAL NUMBER OF CONTAINERS: 10 |
|---|---|---|---|---|---|---|
| SIGNATURE: | 11/15/2011 | 1700 | SIGNATURE: | 11/16/11 | 10:03 | SAMPLING COMMENTS: |
| PRINTED NAME: RENDELL CAMACHO | | | PRINTED NAME: Sara Coffee | | | |
| COMPANY: AMEC | | | COMPANY: alpha | | | |
| SIGNATURE: | | | SIGNATURE: | | | |
| PRINTED NAME: | | | PRINTED NAME: | | | |
| COMPANY: | | | COMPANY: | | | |
| SIGNATURE: | | | SIGNATURE: | | | |
| PRINTED NAME: | | | PRINTED NAME: | | | |
| COMPANY: | | | COMPANY: | | | |

2101 Webster Street, 12th Floor
Oakland, California 94612-3066
Tel 510.663.4100 Fax 510.663.4141

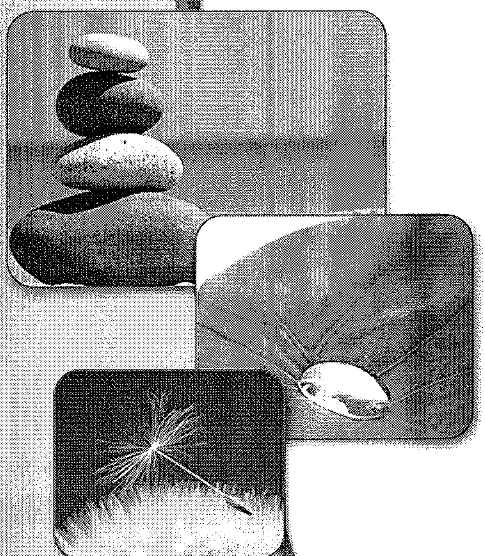
amec

# APPENDIX E

Copies of Laboratory Analytical Reports

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38299-1
Client Project/Site: Crown Chevrolet Sump Excavation
Revision: 2

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

Attn: Avery Patton

*Authorized for release by:*
*12/16/2011 3:00:06 PM*

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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

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

# Table of Contents

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
| --- | --- |
| D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| X | Surrogate is outside control limits |
| 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. |
| F | RPD of the MS and 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 |
| 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) |

## Job ID: 720-38299-1

### Laboratory: TestAmerica San Francisco

**Narrative**

**Job Narrative**
**720-38299-1**

Revised The Case Narrative on 11/18/11. Revised The Case Narrative on 12/16/11.

**Comments**
No additional comments.

**Receipt**

**Comments**
No additional comments.

**Receipt**
Did not receive TRIP BLANK for 8260B.

All other samples were received in good condition within temperature requirements.

**GC/MS VOA**
No other analytical or quality issues were noted.

**GC Semi VOA**
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-38299-2 MS), (720-38299-2 MSD), FEPIT-EXS-6-6 (720-38299-2).

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 101797 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: The following sample(s) contained a hydrocarbon pattern that does not match the Diesel Fuel #2 and motor oil patterns used by the laboratory for quantitative purposes: FEPIT-EXS-5-6 (720-38299-1), FEPIT-EXS-6-6 (720-38299-2).

No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# Detection Summary

Client: AMEC Geomatrix Inc.

TestAmerica Job ID: 720-38299-1

Project/Site: Crown Chevrolet Sump Excavation

## Client Sample ID: FEPIT-EXS-5-6

## Lab Sample ID: 720-38299-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 44 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 23 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 2-Chlorotoluene | 200 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 2700 | | 440 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 1600 | | 440 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trimethylbenzene | 8.6 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Gasoline Range Organics (GRO) -C5-C12 | 2200 | | 210 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 110 | J | 2.0 | | mg/Kg | 2 | | 8015B | Silica Gel Clear |
| Motor Oil Range Organics [C24-C36] | 210 | J | 100 | | mg/Kg | 2 | | 8015B | Silica Gel Clear |

## Client Sample ID: FEPIT-EXS-6-6

## Lab Sample ID: 720-38299-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 43 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| n-Butylbenzene | 7.3 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 26 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 2-Chlorotoluene | 330 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 71000 | | 5200 | | ug/Kg | 1000 | | 8260B/CA_LUFTM | Total/NA |
| 1,3-Dichlorobenzene | 10000 | | 520 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 43000 | | 5200 | | ug/Kg | 1000 | | 8260B/CA_LUFTM | Total/NA |
| Naphthalene | 44 | | 9.7 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trichlorobenzene | 16 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trimethylbenzene | 47 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,3,5-Trimethylbenzene | 8.5 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Xylenes, Total | 17 | | 9.7 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Gasoline Range Organics (GRO) -C5-C12 | 4600 | | 240 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 1600 | J | 20 | | mg/Kg | 20 | | 8015B | Silica Gel Clear |
| Motor Oil Range Organics [C24-C36] | 2300 | J | 1000 | | mg/Kg | 20 | | 8015B | Silica Gel Clear |

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

**Client Sample ID: FEPIT-EXS-5-6**
**Date Collected: 10/24/11 11:20**
**Date Received: 10/24/11 18:30**

**Lab Sample ID: 720-38299-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Acetone | ND | | 43 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Benzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Dichlorobromomethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| **Bromobenzene** | **44** | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Chlorobromomethane | ND | | 17 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Bromoform | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Bromomethane | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 2-Butanone (MEK) | ND | | 43 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| n-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| sec-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| tert-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Carbon disulfide | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Carbon tetrachloride | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| **Chlorobenzene** | **23** | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Chloroethane | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Chloroform | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Chloromethane | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| **2-Chlorotoluene** | **200** | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 4-Chlorotoluene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Chlorodibromomethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| **1,2-Dichlorobenzene** | **2700** | | 440 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 01:40 | 100 |
| 1,3-Dichlorobenzene | ND | | 440 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 01:40 | 100 |
| **1,4-Dichlorobenzene** | **1600** | | 440 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 01:40 | 100 |
| 1,3-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Ethylene Dibromide | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Dibromomethane | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Dichlorodifluoromethane | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1-Dichloroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,2-Dichloroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,2-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Ethylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Hexachlorobutadiene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 2-Hexanone | ND | | 43 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Isopropylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 4-Isopropyltoluene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Methylene Chloride | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 43 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Naphthalene | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| N-Propylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Styrene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |

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

**Client Sample ID: FEPIT-EXS-5-6**
**Date Collected: 10/24/11 11:20**
**Date Received: 10/24/11 18:30**
**Lab Sample ID: 720-38299-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Tetrachloroethene | ND | | 440 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 01:40 | 100 |
| Toluene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Trichloroethene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Trichlorofluoromethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| **1,2,4-Trimethylbenzene** | **8.6** | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Vinyl acetate | ND | | 43 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Vinyl chloride | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| Xylenes, Total | ND | | 8.6 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| 2,2-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |
| **Gasoline Range Organics (GRO) -C5-C12** | **2200** | | 210 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 17:31 | 1 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *87* | | *45 - 131* | *10/24/11 21:15* | *10/25/11 17:31* | *1* |
| *4-Bromofluorobenzene* | *98* | | *66 - 148* | *10/24/11 21:49* | *10/26/11 01:40* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *60 - 140* | *10/24/11 21:15* | *10/25/11 17:31* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *62 - 137* | *10/24/11 21:49* | *10/26/11 01:40* | *100* |
| *Toluene-d8 (Surr)* | *93* | | *58 - 140* | *10/24/11 21:15* | *10/25/11 17:31* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 141* | *10/24/11 21:49* | *10/26/11 01:40* | *100* |

**Client Sample ID: FEPIT-EXS-6-6**
**Date Collected: 10/24/11 12:15**
**Date Received: 10/24/11 18:30**
**Lab Sample ID: 720-38299-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Acetone | ND | | 49 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Benzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Dichlorobromomethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **Bromobenzene** | **43** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Chlorobromomethane | ND | | 19 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Bromoform | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Bromomethane | ND | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 2-Butanone (MEK) | ND | | 49 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **n-Butylbenzene** | **7.3** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| sec-Butylbenzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| tert-Butylbenzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Carbon disulfide | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Carbon tetrachloride | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **Chlorobenzene** | **26** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Chloroethane | ND | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Chloroform | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |

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

**Client Sample ID: FEPIT-EXS-6-6**
**Date Collected: 10/24/11 12:15**
**Date Received: 10/24/11 18:30**

**Lab Sample ID: 720-38299-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **2-Chlorotoluene** | **330** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 4-Chlorotoluene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Chlorodibromomethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **1,2-Dichlorobenzene** | **71000** | | 5200 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 20:51 | 1000 |
| **1,3-Dichlorobenzene** | **10000** | | 520 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 02:10 | 100 |
| **1,4-Dichlorobenzene** | **43000** | | 5200 | | ug/Kg | | 10/24/11 21:49 | 10/26/11 20:51 | 1000 |
| 1,3-Dichloropropane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1-Dichloropropene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Ethylene Dibromide | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Dibromomethane | ND | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Dichlorodifluoromethane | ND | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1-Dichloroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,2-Dichloroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1-Dichloroethene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,2-Dichloropropane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Ethylbenzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Hexachlorobutadiene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 2-Hexanone | ND | | 49 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Isopropylbenzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 4-Isopropyltoluene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Methylene Chloride | ND | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 49 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **Naphthalene** | **44** | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| N-Propylbenzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Styrene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Tetrachloroethene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Toluene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **1,2,4-Trichlorobenzene** | **16** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Trichloroethene | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Trichlorofluoromethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **1,2,4-Trimethylbenzene** | **47** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **1,3,5-Trimethylbenzene** | **8.5** | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Vinyl acetate | ND | | 49 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| Vinyl chloride | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| **Xylenes, Total** | **17** | | 9.7 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |
| 2,2-Dichloropropane | ND | | 4.9 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |

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

**Client Sample ID: FEPIT-EXS-6-6** **Lab Sample ID: 720-38299-2**
**Date Collected: 10/24/11 12:15** **Matrix: Solid**
**Date Received: 10/24/11 18:30**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C5-C12** | **4600** | | 240 | | ug/Kg | | 10/24/11 21:15 | 10/25/11 18:03 | 1 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *45 - 131* | *10/24/11 21:15* | *10/25/11 18:03* | *1* |
| *4-Bromofluorobenzene* | *99* | | *66 - 148* | *10/24/11 21:49* | *10/26/11 02:10* | *100* |
| *4-Bromofluorobenzene* | *103* | | *66 - 148* | *10/24/11 21:49* | *10/26/11 20:51* | *1000* |
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *60 - 140* | *10/24/11 21:15* | *10/25/11 18:03* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *62 - 137* | *10/24/11 21:49* | *10/26/11 02:10* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *62 - 137* | *10/24/11 21:49* | *10/26/11 20:51* | *1000* |
| *Toluene-d8 (Surr)* | *94* | | *58 - 140* | *10/24/11 21:15* | *10/25/11 18:03* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *65 - 141* | *10/24/11 21:49* | *10/26/11 02:10* | *100* |
| *Toluene-d8 (Surr)* | *97* | | *65 - 141* | *10/24/11 21:49* | *10/26/11 20:51* | *1000* |

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

**Client Sample ID: FEPIT-EXS-5-6**
**Date Collected: 10/24/11 11:20**
**Date Received: 10/24/11 18:30**

**Lab Sample ID: 720-38299-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 110 | J | 2.0 | | mg/Kg | | 10/27/11 10:43 | 10/30/11 01:11 | 2 |
| Motor Oil Range Organics [C24-C36] | 210 | J | 100 | | mg/Kg | | 10/27/11 10:43 | 10/30/11 01:11 | 2 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.01* | | *0 - 1* | *10/27/11 10:43* | *10/30/11 01:11* | *2* |
| *p-Terphenyl* | *44* | | *38 - 148* | *10/27/11 10:43* | *10/30/11 01:11* | *2* |

**Client Sample ID: FEPIT-EXS-6-6**
**Date Collected: 10/24/11 12:15**
**Date Received: 10/24/11 18:30**

**Lab Sample ID: 720-38299-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1600 | J | 20 | | mg/Kg | | 10/27/11 10:43 | 10/28/11 11:15 | 20 |
| Motor Oil Range Organics [C24-C36] | 2300 | J | 1000 | | mg/Kg | | 10/27/11 10:43 | 10/28/11 11:15 | 20 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0* | | *0 - 1* | *10/27/11 10:43* | *10/28/11 11:15* | *20* |
| *p-Terphenyl* | *0* | *X D* | *38 - 148* | *10/27/11 10:43* | *10/28/11 11:15* | *20* |

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38299-1
Project/Site: Crown Chevrolet Sump Excavation

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

**Lab Sample ID: MB 720-101575/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101542** **Prep Batch: 101575**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| 1,3-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| 1,4-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| Tetrachloroethene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *66 - 148* | *10/22/11 20:33* | *10/25/11 02:38* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 137* | *10/22/11 20:33* | *10/25/11 02:38* | *100* |
| *Toluene-d8 (Surr)* | *98* | | *65 - 141* | *10/22/11 20:33* | *10/25/11 02:38* | *100* |

**Lab Sample ID: LCS 720-101575/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101542** **Prep Batch: 101575**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5000 | 5160 | | ug/Kg | | 103 | 67 - 126 |
| 1,3-Dichlorobenzene | 5000 | 5360 | | ug/Kg | | 107 | 71 - 135 |
| 1,4-Dichlorobenzene | 5000 | 5200 | | ug/Kg | | 104 | 76 - 130 |
| Tetrachloroethene | 5000 | 4880 | | ug/Kg | | 98 | 79 - 130 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *66 - 148* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *62 - 137* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* |

**Lab Sample ID: LCSD 720-101575/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101542** **Prep Batch: 101575**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5000 | 5140 | | ug/Kg | | 103 | 67 - 126 | 0 | 20 |
| 1,3-Dichlorobenzene | 5000 | 5360 | | ug/Kg | | 107 | 71 - 135 | 0 | 20 |
| 1,4-Dichlorobenzene | 5000 | 5220 | | ug/Kg | | 104 | 76 - 130 | 0 | 20 |
| Tetrachloroethene | 5000 | 4940 | | ug/Kg | | 99 | 79 - 130 | 1 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *66 - 148* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *62 - 137* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* |

**Lab Sample ID: MB 720-101600/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101592** **Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

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

**Lab Sample ID: MB 720-101600/1-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromomethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloroethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloromethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dibromomethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dichlorodifluoromethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Methylene Chloride | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Naphthalene | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

Client: AMEC Geomatrix Inc.
TestAmerica Job ID: 720-38299-1
Project/Site: Crown Chevrolet Sump Excavation

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

**Lab Sample ID: MB 720-101600/1-A**
**Client Sample ID: Method Blank**
**Matrix: Solid**
**Prep Type: Total/NA**
**Analysis Batch: 101592**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Vinyl acetate | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Xylenes, Total | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *45 - 131* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *58 - 140* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |

**Lab Sample ID: LCS 720-101600/2-A**
**Client Sample ID: Lab Control Sample**
**Matrix: Solid**
**Prep Type: Total/NA**
**Analysis Batch: 101592**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.6 | 51.4 | | ug/Kg | | 104 | 71 - 144 |
| Acetone | 248 | 175 | | ug/Kg | | 70 | 30 - 162 |
| Benzene | 49.6 | 46.0 | | ug/Kg | | 93 | 77 - 113 |
| Dichlorobromomethane | 49.6 | 52.6 | | ug/Kg | | 106 | 86 - 131 |
| Bromobenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 88 - 120 |
| Chlorobromomethane | 49.6 | 48.0 | | ug/Kg | | 97 | 81 - 116 |
| Bromoform | 49.6 | 55.4 | | ug/Kg | | 112 | 59 - 158 |
| Bromomethane | 49.6 | 43.7 | | ug/Kg | | 88 | 59 - 132 |
| 2-Butanone (MEK) | 248 | 227 | | ug/Kg | | 92 | 61 - 150 |
| n-Butylbenzene | 49.6 | 49.2 | | ug/Kg | | 99 | 80 - 142 |
| sec-Butylbenzene | 49.6 | 47.2 | | ug/Kg | | 95 | 85 - 136 |
| tert-Butylbenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 71 - 130 |
| Carbon disulfide | 49.6 | 41.9 | | ug/Kg | | 84 | 60 - 136 |
| Carbon tetrachloride | 49.6 | 50.0 | | ug/Kg | | 101 | 81 - 138 |
| Chlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 82 - 114 |
| Chloroethane | 49.6 | 46.6 | | ug/Kg | | 94 | 65 - 126 |
| Chloroform | 49.6 | 47.4 | | ug/Kg | | 96 | 77 - 127 |
| Chloromethane | 49.6 | 40.9 | | ug/Kg | | 82 | 60 - 149 |
| 2-Chlorotoluene | 49.6 | 48.8 | | ug/Kg | | 98 | 80 - 138 |
| 4-Chlorotoluene | 49.6 | 48.2 | | ug/Kg | | 97 | 79 - 136 |
| Chlorodibromomethane | 49.6 | 53.4 | | ug/Kg | | 108 | 75 - 146 |
| 1,2-Dichlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 84 - 130 |
| 1,3-Dichlorobenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 84 - 131 |
| 1,4-Dichlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 85 - 125 |
| 1,3-Dichloropropane | 49.6 | 53.0 | | ug/Kg | | 107 | 79 - 140 |

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

**Lab Sample ID: LCS 720-101600/2-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | 49.6 | 47.6 | | ug/Kg | | 96 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 49.6 | 56.0 | | ug/Kg | | 113 | 68 - 145 |
| Ethylene Dibromide | 49.6 | 55.0 | | ug/Kg | | 111 | 79 - 140 |
| Dibromomethane | 49.6 | 51.4 | | ug/Kg | | 104 | 80 - 139 |
| Dichlorodifluoromethane | 49.6 | 34.5 | | ug/Kg | | 70 | 37 - 158 |
| 1,1-Dichloroethane | 49.6 | 46.8 | | ug/Kg | | 94 | 76 - 119 |
| 1,2-Dichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 72 - 130 |
| 1,1-Dichloroethene | 49.6 | 41.1 | | ug/Kg | | 83 | 68 - 119 |
| cis-1,2-Dichloroethene | 49.6 | 53.4 | | ug/Kg | | 108 | 87 - 138 |
| trans-1,2-Dichloroethene | 49.6 | 38.5 | | ug/Kg | | 78 | 67 - 108 |
| 1,2-Dichloropropane | 49.6 | 47.0 | | ug/Kg | | 95 | 73 - 127 |
| cis-1,3-Dichloropropene | 49.6 | 49.6 | | ug/Kg | | 100 | 68 - 147 |
| trans-1,3-Dichloropropene | 49.6 | 52.8 | | ug/Kg | | 106 | 84 - 136 |
| Ethylbenzene | 49.6 | 48.2 | | ug/Kg | | 97 | 80 - 137 |
| Hexachlorobutadiene | 49.6 | 48.4 | | ug/Kg | | 98 | 72 - 132 |
| 2-Hexanone | 248 | 260 | | ug/Kg | | 105 | 60 - 161 |
| Isopropylbenzene | 49.6 | 51.0 | | ug/Kg | | 103 | 88 - 128 |
| 4-Isopropyltoluene | 49.6 | 48.6 | | ug/Kg | | 98 | 85 - 133 |
| Methylene Chloride | 49.6 | 46.0 | | ug/Kg | | 93 | 72 - 134 |
| 4-Methyl-2-pentanone (MIBK) | 248 | 270 | | ug/Kg | | 109 | 69 - 160 |
| Naphthalene | 49.6 | 52.4 | | ug/Kg | | 106 | 70 - 147 |
| N-Propylbenzene | 49.6 | 46.2 | | ug/Kg | | 93 | 72 - 125 |
| Styrene | 49.6 | 51.8 | | ug/Kg | | 104 | 89 - 126 |
| 1,1,1,2-Tetrachloroethane | 49.6 | 52.6 | | ug/Kg | | 106 | 90 - 130 |
| 1,1,2,2-Tetrachloroethane | 49.6 | 52.6 | | ug/Kg | | 106 | 82 - 146 |
| Tetrachloroethene | 49.6 | 47.6 | | ug/Kg | | 96 | 78 - 132 |
| Toluene | 49.6 | 46.4 | | ug/Kg | | 94 | 80 - 114 |
| 1,2,3-Trichlorobenzene | 49.6 | 50.6 | | ug/Kg | | 102 | 82 - 135 |
| 1,2,4-Trichlorobenzene | 49.6 | 50.0 | | ug/Kg | | 101 | 70 - 131 |
| 1,1,1-Trichloroethane | 49.6 | 48.4 | | ug/Kg | | 98 | 80 - 127 |
| 1,1,2-Trichloroethane | 49.6 | 51.2 | | ug/Kg | | 103 | 82 - 125 |
| Trichloroethene | 49.6 | 45.2 | | ug/Kg | | 91 | 81 - 133 |
| Trichlorofluoromethane | 49.6 | 48.0 | | ug/Kg | | 97 | 71 - 139 |
| 1,2,3-Trichloropropane | 49.6 | 55.4 | | ug/Kg | | 112 | 76 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.6 | 47.4 | | ug/Kg | | 96 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 49.6 | 48.6 | | ug/Kg | | 98 | 84 - 130 |
| 1,3,5-Trimethylbenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 82 - 131 |
| Vinyl acetate | 49.6 | 55.0 | | ug/Kg | | 111 | 38 - 176 |
| Vinyl chloride | 49.6 | 41.1 | | ug/Kg | | 83 | 58 - 125 |
| m-Xylene & p-Xylene | 99.2 | 102 | | ug/Kg | | 103 | 79 - 146 |
| o-Xylene | 49.6 | 48.2 | | ug/Kg | | 97 | 84 - 140 |
| 2,2-Dichloropropane | 49.6 | 50.6 | | ug/Kg | | 102 | 73 - 162 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* |

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

**Lab Sample ID: LCS 720-101600/4-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 994 | 936 | | ug/Kg | | 94 | 61 - 128 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101600/3-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.8 | 50.0 | | ug/Kg | | 100 | 71 - 144 | 3 | 20 |
| Acetone | 249 | 171 | | ug/Kg | | 69 | 30 - 162 | 2 | 30 |
| Benzene | 49.8 | 46.4 | | ug/Kg | | 93 | 77 - 113 | 1 | 20 |
| Dichlorobromomethane | 49.8 | 51.0 | | ug/Kg | | 102 | 86 - 131 | 3 | 20 |
| Bromobenzene | 49.8 | 49.8 | | ug/Kg | | 100 | 88 - 120 | 4 | 20 |
| Chlorobromomethane | 49.8 | 48.0 | | ug/Kg | | 96 | 81 - 116 | 0 | 20 |
| Bromoform | 49.8 | 56.0 | | ug/Kg | | 112 | 59 - 158 | 1 | 20 |
| Bromomethane | 49.8 | 47.0 | | ug/Kg | | 94 | 59 - 132 | 7 | 20 |
| 2-Butanone (MEK) | 249 | 233 | | ug/Kg | | 93 | 61 - 150 | 2 | 20 |
| n-Butylbenzene | 49.8 | 52.2 | | ug/Kg | | 105 | 80 - 142 | 6 | 20 |
| sec-Butylbenzene | 49.8 | 50.4 | | ug/Kg | | 101 | 85 - 136 | 7 | 20 |
| tert-Butylbenzene | 49.8 | 51.2 | | ug/Kg | | 103 | 71 - 130 | 7 | 20 |
| Carbon disulfide | 49.8 | 42.8 | | ug/Kg | | 86 | 60 - 136 | 2 | 20 |
| Carbon tetrachloride | 49.8 | 49.8 | | ug/Kg | | 100 | 81 - 138 | 0 | 20 |
| Chlorobenzene | 49.8 | 49.0 | | ug/Kg | | 98 | 82 - 114 | 2 | 20 |
| Chloroethane | 49.8 | 48.4 | | ug/Kg | | 97 | 65 - 126 | 4 | 20 |
| Chloroform | 49.8 | 47.8 | | ug/Kg | | 96 | 77 - 127 | 1 | 20 |
| Chloromethane | 49.8 | 42.2 | | ug/Kg | | 85 | 60 - 149 | 3 | 20 |
| 2-Chlorotoluene | 49.8 | 51.2 | | ug/Kg | | 103 | 80 - 138 | 5 | 20 |
| 4-Chlorotoluene | 49.8 | 51.0 | | ug/Kg | | 102 | 79 - 136 | 6 | 20 |
| Chlorodibromomethane | 49.8 | 53.0 | | ug/Kg | | 106 | 75 - 146 | 1 | 20 |
| 1,2-Dichlorobenzene | 49.8 | 49.8 | | ug/Kg | | 100 | 84 - 130 | 4 | 20 |
| 1,3-Dichlorobenzene | 49.8 | 50.0 | | ug/Kg | | 100 | 84 - 131 | 4 | 20 |
| 1,4-Dichlorobenzene | 49.8 | 51.4 | | ug/Kg | | 103 | 85 - 125 | 7 | 20 |
| 1,3-Dichloropropane | 49.8 | 53.0 | | ug/Kg | | 106 | 79 - 140 | 0 | 20 |
| 1,1-Dichloropropene | 49.8 | 47.8 | | ug/Kg | | 96 | 70 - 130 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | 49.8 | 58.6 | | ug/Kg | | 118 | 68 - 145 | 5 | 20 |
| Ethylene Dibromide | 49.8 | 54.2 | | ug/Kg | | 109 | 79 - 140 | 1 | 20 |
| Dibromomethane | 49.8 | 51.6 | | ug/Kg | | 104 | 80 - 139 | 0 | 20 |
| Dichlorodifluoromethane | 49.8 | 36.5 | | ug/Kg | | 73 | 37 - 158 | 5 | 20 |
| 1,1-Dichloroethane | 49.8 | 47.6 | | ug/Kg | | 96 | 76 - 119 | 2 | 20 |
| 1,2-Dichloroethane | 49.8 | 49.0 | | ug/Kg | | 98 | 72 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 49.8 | 42.2 | | ug/Kg | | 85 | 68 - 119 | 3 | 20 |
| cis-1,2-Dichloroethene | 49.8 | 53.8 | | ug/Kg | | 108 | 87 - 138 | 1 | 20 |
| trans-1,2-Dichloroethene | 49.8 | 39.8 | | ug/Kg | | 80 | 67 - 108 | 3 | 20 |
| 1,2-Dichloropropane | 49.8 | 47.6 | | ug/Kg | | 96 | 73 - 127 | 1 | 20 |

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38299-1
Project/Site: Crown Chevrolet Sump Excavation

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

**Lab Sample ID: LCSD 720-101600/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101592** **Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | 49.8 | 49.6 | | ug/Kg | | 100 | 68 - 147 | 0 | 20 |
| trans-1,3-Dichloropropene | 49.8 | 52.6 | | ug/Kg | | 106 | 84 - 136 | 0 | 20 |
| Ethylbenzene | 49.8 | 49.2 | | ug/Kg | | 99 | 80 - 137 | 2 | 20 |
| Hexachlorobutadiene | 49.8 | 52.2 | | ug/Kg | | 105 | 72 - 132 | 8 | 20 |
| 2-Hexanone | 249 | 259 | | ug/Kg | | 104 | 60 - 161 | 0 | 20 |
| Isopropylbenzene | 49.8 | 52.0 | | ug/Kg | | 104 | 88 - 128 | 2 | 20 |
| 4-Isopropyltoluene | 49.8 | 51.4 | | ug/Kg | | 103 | 85 - 133 | 6 | 20 |
| Methylene Chloride | 49.8 | 46.2 | | ug/Kg | | 93 | 72 - 134 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 249 | 267 | | ug/Kg | | 107 | 69 - 160 | 1 | 20 |
| Naphthalene | 49.8 | 54.0 | | ug/Kg | | 108 | 70 - 147 | 3 | 20 |
| N-Propylbenzene | 49.8 | 48.2 | | ug/Kg | | 97 | 72 - 125 | 4 | 20 |
| Styrene | 49.8 | 52.8 | | ug/Kg | | 106 | 89 - 126 | 2 | 20 |
| 1,1,1,2-Tetrachloroethane | 49.8 | 53.2 | | ug/Kg | | 107 | 90 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 49.8 | 53.2 | | ug/Kg | | 107 | 82 - 146 | 1 | 20 |
| Tetrachloroethene | 49.8 | 48.2 | | ug/Kg | | 97 | 78 - 132 | 1 | 20 |
| Toluene | 49.8 | 47.8 | | ug/Kg | | 96 | 80 - 114 | 3 | 20 |
| 1,2,3-Trichlorobenzene | 49.8 | 52.2 | | ug/Kg | | 105 | 82 - 135 | 3 | 20 |
| 1,2,4-Trichlorobenzene | 49.8 | 51.8 | | ug/Kg | | 104 | 70 - 131 | 4 | 20 |
| 1,1,1-Trichloroethane | 49.8 | 48.2 | | ug/Kg | | 97 | 80 - 127 | 0 | 20 |
| 1,1,2-Trichloroethane | 49.8 | 51.0 | | ug/Kg | | 102 | 82 - 125 | 0 | 20 |
| Trichloroethene | 49.8 | 46.6 | | ug/Kg | | 94 | 81 - 133 | 3 | 20 |
| Trichlorofluoromethane | 49.8 | 49.8 | | ug/Kg | | 100 | 71 - 139 | 4 | 20 |
| 1,2,3-Trichloropropane | 49.8 | 55.6 | | ug/Kg | | 112 | 76 - 146 | 0 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.8 | 47.2 | | ug/Kg | | 95 | 70 - 130 | 0 | 20 |
| 1,2,4-Trimethylbenzene | 49.8 | 51.0 | | ug/Kg | | 102 | 84 - 130 | 5 | 20 |
| 1,3,5-Trimethylbenzene | 49.8 | 50.2 | | ug/Kg | | 101 | 82 - 131 | 5 | 20 |
| Vinyl acetate | 49.8 | 54.8 | | ug/Kg | | 110 | 38 - 176 | 0 | 20 |
| Vinyl chloride | 49.8 | 43.8 | | ug/Kg | | 88 | 58 - 125 | 6 | 20 |
| m-Xylene & p-Xylene | 99.6 | 104 | | ug/Kg | | 105 | 79 - 146 | 3 | 20 |
| o-Xylene | 49.8 | 49.2 | | ug/Kg | | 99 | 84 - 140 | 2 | 20 |
| 2,2-Dichloropropane | 49.8 | 51.2 | | ug/Kg | | 103 | 73 - 162 | 1 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *97* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101600/5-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101592** **Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 992 | 932 | | ug/Kg | | 94 | 61 - 128 | 0 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *60 - 140* |

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

**Lab Sample ID: LCSD 720-101600/5-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Surrogate | LCSD % Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *Toluene-d8 (Surr)* | 96 | | 58 - 140 |

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

**Lab Sample ID: MB 720-101797/1-A**
**Matrix: Solid**
**Analysis Batch: 101850**

**Client Sample ID: Method Blank**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101797**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.99 | | mg/Kg | | 10/27/11 10:43 | 10/28/11 11:15 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 10/27/11 10:43 | 10/28/11 11:15 | 1 |

| Surrogate | MB % Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | 0.007 | | 0 - 1 | 10/27/11 10:43 | 10/28/11 11:15 | 1 |
| *p-Terphenyl* | 83 | | 38 - 148 | 10/27/11 10:43 | 10/28/11 11:15 | 1 |

**Lab Sample ID: LCS 720-101797/2-A**
**Matrix: Solid**
**Analysis Batch: 101850**

**Client Sample ID: Lab Control Sample**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101797**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.2 | 53.8 | | mg/Kg | | 65 | 50 - 150 |

| Surrogate | LCS % Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *p-Terphenyl* | 86 | | 38 - 148 |

**Lab Sample ID: LCSD 720-101797/3-A**
**Matrix: Solid**
**Analysis Batch: 101850**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101797**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.5 | 55.8 | | mg/Kg | | 68 | 50 - 150 | 4 | 35 |

| Surrogate | LCSD % Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *p-Terphenyl* | 91 | | 38 - 148 |

**Lab Sample ID: 720-38299-2 MS**
**Matrix: Solid**
**Analysis Batch: 101849**

**Client Sample ID: FEPIT-EXS-6-6**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101797**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1600 | | 83.0 | 1210 | 4 | mg/Kg | | -524 | 50 - 150 |

| Surrogate | MS % Recovery | MS Qualifier | Limits |
|---|---|---|---|
| *p-Terphenyl* | 0 | X D | 38 - 148 |

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

**Lab Sample ID: 720-38299-2 MSD**
**Matrix: Solid**
**Analysis Batch: 101849**

**Client Sample ID: FEPIT-EXS-6-6**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101797**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1600 | | 82.5 | 1500 | 4 F | mg/Kg | | -165 | 50 - 150 | 22 | 20 |

| *Surrogate* | *MSD % Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *0* | *X D* | *38 - 148* |

# QC Association Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38299-1

## GC/MS VOA

### Analysis Batch: 101542

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101575/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| LCSD 720-101575/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| MB 720-101575/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |

### Prep Batch: 101575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Total/NA | Solid | 5035 | |
| 720-38299-2 | FEPIT-EXS-6-6 | Total/NA | Solid | 5035 | |
| LCS 720-101575/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101575/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101575/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101592

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| 720-38299-2 | FEPIT-EXS-6-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCS 720-101600/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCS 720-101600/4-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCSD 720-101600/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCSD 720-101600/5-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| MB 720-101600/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |

### Prep Batch: 101600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Total/NA | Solid | 5035 | |
| 720-38299-2 | FEPIT-EXS-6-6 | Total/NA | Solid | 5035 | |
| LCS 720-101600/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 720-101600/4-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101600/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| LCSD 720-101600/5-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101600/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101655

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| 720-38299-2 | FEPIT-EXS-6-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |

### Analysis Batch: 101742

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-2 | FEPIT-EXS-6-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |

## GC Semi VOA

### Prep Batch: 101797

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Silica Gel Cleanup | Solid | 3546 | |
| 720-38299-2 | FEPIT-EXS-6-6 | Silica Gel Cleanup | Solid | 3546 | |
| 720-38299-2 MS | FEPIT-EXS-6-6 | Silica Gel Cleanup | Solid | 3546 | |
| 720-38299-2 MSD | FEPIT-EXS-6-6 | Silica Gel Cleanup | Solid | 3546 | |
| LCS 720-101797/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 3546 | |
| LCSD 720-101797/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 3546 | |
| MB 720-101797/1-A | Method Blank | Silica Gel Cleanup | Solid | 3546 | |

### Analysis Batch: 101849

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-2 | FEPIT-EXS-6-6 | Silica Gel Cleanup | Solid | 8015B | 101797 |
| 720-38299-2 MS | FEPIT-EXS-6-6 | Silica Gel Cleanup | Solid | 8015B | 101797 |
| 720-38299-2 MSD | FEPIT-EXS-6-6 | Silica Gel Cleanup | Solid | 8015B | 101797 |

### Analysis Batch: 101850

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101797/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 8015B | 101797 |
| LCSD 720-101797/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 8015B | 101797 |
| MB 720-101797/1-A | Method Blank | Silica Gel Cleanup | Solid | 8015B | 101797 |

### Analysis Batch: 101937

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Silica Gel Cleanup | Solid | 8015B | 101797 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38299-1

**Client Sample ID: FEPIT-EXS-5-6**
**Lab Sample ID: 720-38299-1**
**Date Collected: 10/24/11 11:20**
**Matrix: Solid**
**Date Received: 10/24/11 18:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101600 | 10/24/11 21:15 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101592 | 10/25/11 17:31 | LL | TAL SF |
| Total/NA | Prep | 5035 | | | 101575 | 10/24/11 21:49 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101655 | 10/26/11 01:40 | LL | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101797 | 10/27/11 10:43 | JRM | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 2 | 101937 | 10/30/11 01:11 | DH | TAL SF |

**Client Sample ID: FEPIT-EXS-6-6**
**Lab Sample ID: 720-38299-2**
**Date Collected: 10/24/11 12:15**
**Matrix: Solid**
**Date Received: 10/24/11 18:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101600 | 10/24/11 21:15 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101592 | 10/25/11 18:03 | LL | TAL SF |
| Total/NA | Prep | 5035 | | | 101575 | 10/24/11 21:49 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101655 | 10/26/11 02:10 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1000 | 101742 | 10/26/11 20:51 | AC | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101797 | 10/27/11 10:43 | JRM | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 20 | 101849 | 10/28/11 11:15 | DH | TAL SF |

**Laboratory References:**

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

# Certification Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38299-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica San Francisco | California | State Program | 9 | 2496 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary



| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B/CA_LUFTMS | 8260B / CA LUFT MS | SW846 | TAL SF |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SF |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38299-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 720-38299-1 | FEPIT-EXS-5-6 | Solid | 10/24/11 11:20 | 10/24/11 18:30 |
| 720-38299-2 | FEPIT-EXS-6-6 | Solid | 10/24/11 12:15 | 10/24/11 18:30 |

# CHAIN OF CUSTODY FORM

amec

12/16/2011

Seq. No. 1036

Lab: Test America

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

Samplers: Haely Young

720-38299

134509

Job Number: 0D10160070.00005

Name/Location: Crown Chevrolet Sump Excavation, Dublin CA

Project Manager: Avery Patton

Recorder: Haely Young (Signature Required)

| MATRIX: Water | Soil | Air | | # CONTAINERS: Unpres. | H2SO4 | HNO3 | HCL | Ice/Water | MeOH | SAMPLE NUMBER | DATE: YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | ANALYSIS REQUESTED: 8260B VOCs | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd, mo (8015) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | | 1 | | | | 2 | 1 | FEPit-EXS-5-6 | 11 | 10 | 24 | 1120 | | | X | | | X | X |
| | X | | | 1 | | | | 2 | 1 | FEPit-EXS-6-6 | 11 | 10 | 24 | 1215 | | | X | | | X | X |

Page 25 of 26

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#:

TAT: Standard

Comments: Field Filtered Y/N

AMEC
2101 Webster St, 12th Floor
Oakland, CA 94612
(510) 663-4100

## CHAIN OF CUSTODY RECORD

| Relinquished/Received | (Signature) | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|---|
| Relinquished By | Haely Young | Haely Young | AMEC | 10/24/11 @ 1333 |
| Received By | Ed Martinez | Ed Martinez | TestAmerica | 10-24-11 1327 |
| Relinquished By | Ed Martinez | Ed Martinez | TASF | 10-24-11 1830 |
| Received By | [illegible] | [illegible] | TASF | 10/24/11 1830 |
| Relinquished By | | | | |
| Received By | | | | |

Method of Shipment:

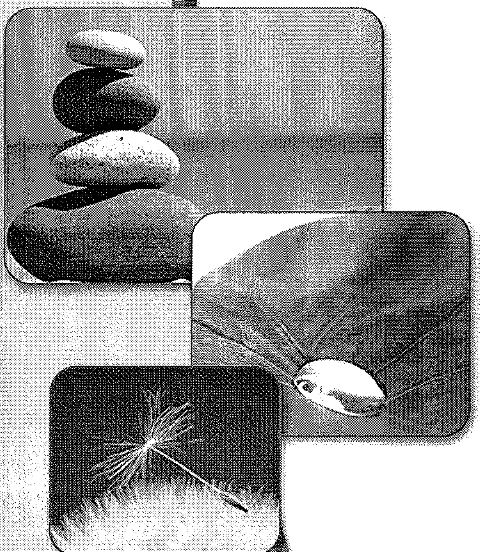
White - Laboratory Copy Yellow - Project Office Copy Pink - Field or Office Copy F1008-E

# Login Sample Receipt Checklist

Client: AMEC Geomatrix Inc. | Job Number: 720-38299-1

**Login Number: 38299** | **List Source: TestAmerica San Francisco**
**List Number: 1**
**Creator: Hoang, Julie**

| 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 | |
| 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. | False | SEE NCM |
| Is the Field Sampler's name present on COC? | True | |
| 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. | 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 San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38344-1
Client Project/Site: Crown Chevrolet Sump Exacavation
Revision: 1

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

Attn: Avery Patton

*Authorized for release by:*
*12/16/2011 3:19:40 PM*

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

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

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

# Table of Contents

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| 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 |
| 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) |

## Job ID: 720-38344-1

**Laboratory: TestAmerica San Francisco**

**Narrative**

**Job Narrative**
**720-38344-1**

Revised The case narrative on 12/16/11

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample 38344-4: FEPIT-EXS-10-12 (720-38344-4). The sample(s) shows evidence of matrix interference and confirmed by reanalysis.

Method(s) 8260B: The following samples submitted for volatiles analysis were received with insufficient preservation (pH >2): SUMP-EXB-WATER-1-16 (720-38344-1).

No other analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 8015B: Concentrations reported represent individual or discrete peaks: 720 - 38344 - 1
Method(s) 8015B: The following sample(s) contained a hydrocarbon pattern that does not match the Diesel Fuel #2 and motor oil patterns used by the laboratory for quantitative purposes: FEPIT-EXS-10-12 (720-38344-4), FEPIT-EXS-9-6 (720-38344-3), SUMP-EXB-WATER-1-16 (720-38344-1).

No other analytical or quality issues were noted.

**Metals**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

# Detection Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

## Client Sample ID: SUMP-EXB-WATER-1-16

**Lab Sample ID: 720-38344-1**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 8.2 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 2800 | | 250 | | ug/L | 500 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 18000 | | 250 | | ug/L | 500 | | 8260B/CA_LUFTM | Total/NA |
| 1,3-Dichlorobenzene | 7.6 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 250 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trichlorobenzene | 12 | | 10 | | ug/L | 10 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trimethylbenzene | 24 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFTM | Total/NA |
| 1,3,5-Trimethylbenzene | 8.3 | | 5.0 | | ug/L | 10 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 2200 | J | 58 | | ug/L | 1 | | 8015B | Dissolved |

## Client Sample ID: TB092811

**Lab Sample ID: 720-38344-2**

No Detections

## Client Sample ID: FEPIT-EXS-9-6

**Lab Sample ID: 720-38344-3**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 35 | | 4.5 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 42 | | 4.5 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 2-Chlorotoluene | 160 | | 4.5 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 6400 | | 500 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,3-Dichlorobenzene | 230 | | 4.5 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 4000 | | 500 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| cis-1,2-Dichloroethene | 6.1 | | 4.5 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Xylenes, Total | 12 | | 8.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Gasoline Range Organics (GRO) -C5-C12 | 290 | | 220 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 170 | J | 5.0 | | mg/Kg | 5 | | 8015B | Silica Gel Clean |
| Motor Oil Range Organics [C24-C36] | 340 | J | 250 | | mg/Kg | 5 | | 8015B | Silica Gel Clean |

## Client Sample ID: FEPIT-EXS-10-12

**Lab Sample ID: 720-38344-4**

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | 4.3 | J | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 10 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 2-Chlorotoluene | 17 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 170 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,3-Dichlorobenzene | 20 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 110 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| cis-1,2-Dichloroethene | 5.6 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Trichloroethene | 6.8 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 89 | | 1.0 | | mg/Kg | 1 | | 8015B | Silica Gel Clean |
| Motor Oil Range Organics [C24-C36] | 170 | | 50 | | mg/Kg | 1 | | 8015B | Silica Gel Clean |

# Client Sample Results

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38344-1
Project/Site: Crown Chevrolet Sump Exacavation

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

**Client Sample ID: SUMP-EXB-WATER-1-16** **Lab Sample ID: 720-38344-1**
**Date Collected: 10/26/11 12:50** **Matrix: Water**
**Date Received: 10/26/11 18:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Acetone | ND | | 500 | | ug/L | | | 10/28/11 22:40 | 10 |
| **Benzene** | **8.2** | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Dichlorobromomethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Bromobenzene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Chlorobromomethane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Bromoform | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Bromomethane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 2-Butanone (MEK) | ND | | 500 | | ug/L | | | 10/28/11 22:40 | 10 |
| n-Butylbenzene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| sec-Butylbenzene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| tert-Butylbenzene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Carbon disulfide | ND | | 50 | | ug/L | | | 10/28/11 22:40 | 10 |
| Carbon tetrachloride | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| **Chlorobenzene** | **2800** | | 250 | | ug/L | | | 10/31/11 18:10 | 500 |
| Chloroethane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Chloroform | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Chloromethane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Chlorodibromomethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| **1,2-Dichlorobenzene** | **18000** | | 250 | | ug/L | | | 10/31/11 18:10 | 500 |
| **1,3-Dichlorobenzene** | **7.6** | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| **1,4-Dichlorobenzene** | **250** | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,3-Dichloropropane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Ethylene Dibromide | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Dibromomethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Dichlorodifluoromethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Ethylbenzene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Hexachlorobutadiene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 2-Hexanone | ND | | 500 | | ug/L | | | 10/28/11 22:40 | 10 |
| Isopropylbenzene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 4-Isopropyltoluene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Methylene Chloride | ND | | 50 | | ug/L | | | 10/28/11 22:40 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 500 | | ug/L | | | 10/28/11 22:40 | 10 |
| Naphthalene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| N-Propylbenzene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| Styrene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |

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

**Client Sample ID: SUMP-EXB-WATER-1-16**
**Date Collected: 10/26/11 12:50**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Tetrachloroethene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Toluene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,2,3-Trichlorobenzene | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| **1,2,4-Trichlorobenzene** | **12** | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Trichloroethene | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Trichlorofluoromethane | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| **1,2,4-Trimethylbenzene** | **24** | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| **1,3,5-Trimethylbenzene** | **8.3** | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Vinyl acetate | ND | | 100 | | ug/L | | | 10/28/11 22:40 | 10 |
| Vinyl chloride | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Xylenes, Total | ND | | 10 | | ug/L | | | 10/28/11 22:40 | 10 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/L | | | 10/28/11 22:40 | 10 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 25000 | | ug/L | | | 11/02/11 12:42 | 500 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *67 - 130* | | *10/28/11 22:40* | *10* |
| *4-Bromofluorobenzene* | *109* | | *67 - 130* | | *10/31/11 18:10* | *500* |
| *4-Bromofluorobenzene* | *99* | | *67 - 130* | | *11/02/11 12:42* | *500* |
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *75 - 138* | | *10/28/11 22:40* | *10* |
| *1,2-Dichloroethane-d4 (Surr)* | *87* | | *75 - 138* | | *10/31/11 18:10* | *500* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *75 - 138* | | *11/02/11 12:42* | *500* |
| *Toluene-d8 (Surr)* | *96* | | *70 - 130* | | *10/28/11 22:40* | *10* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *10/31/11 18:10* | *500* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *11/02/11 12:42* | *500* |

**Client Sample ID: TB092811**
**Date Collected: 10/26/11 13:20**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/28/11 22:12 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

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

**Client Sample ID: TB092811**
**Date Collected: 10/26/11 13:20**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/28/11 22:12 | 1 |

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

**Client Sample ID: TB092811**
**Date Collected: 10/26/11 13:20**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/28/11 22:12 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/28/11 22:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *67 - 130* | | *10/28/11 22:12* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *75 - 138* | | *10/28/11 22:12* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *70 - 130* | | *10/28/11 22:12* | *1* |

**Client Sample ID: FEPIT-EXS-9-6**
**Date Collected: 10/26/11 13:40**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Acetone | ND | | 45 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Benzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Dichlorobromomethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **Bromobenzene** | **35** | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Chlorobromomethane | ND | | 18 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Bromoform | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Bromomethane | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 2-Butanone (MEK) | ND | | 45 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| n-Butylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| sec-Butylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| tert-Butylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Carbon disulfide | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Carbon tetrachloride | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **Chlorobenzene** | **42** | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Chloroethane | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Chloroform | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Chloromethane | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **2-Chlorotoluene** | **160** | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 4-Chlorotoluene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Chlorodibromomethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **1,2-Dichlorobenzene** | **6400** | | 500 | | ug/Kg | | 10/26/11 19:15 | 10/31/11 12:42 | 100 |
| **1,3-Dichlorobenzene** | **230** | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **1,4-Dichlorobenzene** | **4000** | | 500 | | ug/Kg | | 10/26/11 19:15 | 10/31/11 12:42 | 100 |
| 1,3-Dichloropropane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1-Dichloropropene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Ethylene Dibromide | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Dibromomethane | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Dichlorodifluoromethane | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1-Dichloroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2-Dichloroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1-Dichloroethene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **cis-1,2-Dichloroethene** | **6.1** | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2-Dichloropropane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

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

**Client Sample ID: FEPIT-EXS-9-6**
**Date Collected: 10/26/11 13:40**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Ethylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Hexachlorobutadiene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 2-Hexanone | ND | | 45 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Isopropylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 4-Isopropyltoluene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Methylene Chloride | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 45 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Naphthalene | ND | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| N-Propylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Styrene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Tetrachloroethene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Toluene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Trichloroethene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Trichlorofluoromethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Vinyl acetate | ND | | 45 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| Vinyl chloride | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **Xylenes, Total** | **12** | | 8.9 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| 2,2-Dichloropropane | ND | | 4.5 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |
| **Gasoline Range Organics (GRO) -C5-C12** | **290** | | 220 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 15:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *83* | | *45 - 131* | *10/27/11 08:32* | *10/27/11 15:53* | *1* |
| *4-Bromofluorobenzene* | *102* | | *66 - 148* | *10/26/11 19:15* | *10/31/11 12:42* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *60 - 140* | *10/27/11 08:32* | *10/27/11 15:53* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *62 - 137* | *10/26/11 19:15* | *10/31/11 12:42* | *100* |
| *Toluene-d8 (Surr)* | *97* | | *58 - 140* | *10/27/11 08:32* | *10/27/11 15:53* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *65 - 141* | *10/26/11 19:15* | *10/31/11 12:42* | *100* |

**Client Sample ID: FEPIT-EXS-10-12**
**Date Collected: 10/26/11 14:35**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Acetone | ND | | 43 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Benzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Dichlorobromomethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |

# Client Sample Results

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38344-1
Project/Site: Crown Chevrolet Sump Exacavation

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

**Client Sample ID: FEPIT-EXS-10-12** **Lab Sample ID: 720-38344-4**
**Date Collected: 10/26/11 14:35** **Matrix: Solid**
**Date Received: 10/26/11 18:35**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Bromobenzene** | **4.3** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Chlorobromomethane | ND | | 17 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Bromoform | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Bromomethane | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 2-Butanone (MEK) | ND | | 43 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| n-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| sec-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| tert-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Carbon disulfide | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Carbon tetrachloride | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **Chlorobenzene** | **10** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Chloroethane | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Chloroform | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Chloromethane | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **2-Chlorotoluene** | **17** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 4-Chlorotoluene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Chlorodibromomethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **1,2-Dichlorobenzene** | **170** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **1,3-Dichlorobenzene** | **20** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **1,4-Dichlorobenzene** | **110** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,3-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Ethylene Dibromide | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Dibromomethane | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Dichlorodifluoromethane | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1-Dichloroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,2-Dichloroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **cis-1,2-Dichloroethene** | **5.6** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,2-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Ethylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Hexachlorobutadiene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 2-Hexanone | ND | | 43 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Isopropylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 4-Isopropyltoluene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Methylene Chloride | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 43 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Naphthalene | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| N-Propylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Styrene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Tetrachloroethene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Toluene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |

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

**Client Sample ID: FEPIT-EXS-10-12**
**Date Collected: 10/26/11 14:35**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| **Trichloroethene** | **6.8** | J | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Trichlorofluoromethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Vinyl acetate | ND | | 43 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Vinyl chloride | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Xylenes, Total | ND | | 8.6 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| 2,2-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 210 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 16:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *87* | | *45 - 131* | *10/27/11 08:32* | *10/27/11 16:24* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *60 - 140* | *10/27/11 08:32* | *10/27/11 16:24* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* | *10/27/11 08:32* | *10/27/11 16:24* | *1* |

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

**Client Sample ID: SUMP-EXB-WATER-1-16**
**Date Collected: 10/26/11 12:50**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2200** | J | 58 | | ug/L | | 10/27/11 16:47 | 11/02/11 00:53 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 120 | | ug/L | | 10/27/11 16:47 | 11/02/11 00:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.01* | | *0 - 5* | *10/27/11 16:47* | *11/02/11 00:53* | *1* |
| *p-Terphenyl* | *104* | | *31 - 150* | *10/27/11 16:47* | *11/02/11 00:53* | *1* |

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

**Client Sample ID: FEPIT-EXS-9-6**
**Date Collected: 10/26/11 13:40**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-3**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 170 | J | 5.0 | | mg/Kg | | 10/28/11 13:00 | 11/02/11 12:33 | 5 |
| Motor Oil Range Organics [C24-C36] | 340 | J | 250 | | mg/Kg | | 10/28/11 13:00 | 11/02/11 12:33 | 5 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0* | | *0 - 1* | *10/28/11 13:00* | *11/02/11 12:33* | *5* |
| *p-Terphenyl* | *0* | *X D* | *38 - 148* | *10/28/11 13:00* | *11/02/11 12:33* | *5* |

**Client Sample ID: FEPIT-EXS-10-12**
**Date Collected: 10/26/11 14:35**
**Date Received: 10/26/11 18:35**

**Lab Sample ID: 720-38344-4**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 89 | J | 1.0 | | mg/Kg | | 10/28/11 13:00 | 11/02/11 01:42 | 1 |
| Motor Oil Range Organics [C24-C36] | 170 | J | 50 | | mg/Kg | | 10/28/11 13:00 | 11/02/11 01:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.009* | | *0 - 1* | *10/28/11 13:00* | *11/02/11 01:42* | *1* |
| *p-Terphenyl* | *65* | | *38 - 148* | *10/28/11 13:00* | *11/02/11 01:42* | *1* |

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38344-1
Project/Site: Crown Chevrolet Sump Exacavation

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

**Lab Sample ID: MB 720-101777/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101763** **Prep Batch: 101777**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Bromomethane | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Chloroethane | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Chloromethane | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Dibromomethane | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Dichlorodifluoromethane | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Methylene Chloride | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Naphthalene | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |

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

**Lab Sample ID: MB 720-101777/1-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Vinyl acetate | ND | | 50 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Xylenes, Total | ND | | 10 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/27/11 08:32 | 10/27/11 10:42 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *45 - 131* | *10/27/11 08:32* | *10/27/11 10:42* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *60 - 140* | *10/27/11 08:32* | *10/27/11 10:42* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* | *10/27/11 08:32* | *10/27/11 10:42* | *1* |

**Lab Sample ID: LCS 720-101777/2-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.7 | 46.7 | | ug/Kg | | 94 | 71 - 144 |
| Acetone | 249 | 156 | | ug/Kg | | 63 | 30 - 162 |
| Benzene | 49.7 | 49.5 | | ug/Kg | | 100 | 77 - 113 |
| Dichlorobromomethane | 49.7 | 46.9 | | ug/Kg | | 94 | 86 - 131 |
| Bromobenzene | 49.7 | 50.7 | | ug/Kg | | 102 | 88 - 120 |
| Chlorobromomethane | 49.7 | 43.7 | | ug/Kg | | 88 | 81 - 116 |
| Bromoform | 49.7 | 49.5 | | ug/Kg | | 100 | 59 - 158 |
| Bromomethane | 49.7 | 45.3 | | ug/Kg | | 91 | 59 - 132 |
| 2-Butanone (MEK) | 249 | 176 | | ug/Kg | | 71 | 61 - 150 |
| n-Butylbenzene | 49.7 | 58.1 | | ug/Kg | | 117 | 80 - 142 |
| sec-Butylbenzene | 49.7 | 58.4 | | ug/Kg | | 118 | 85 - 136 |
| tert-Butylbenzene | 49.7 | 57.9 | | ug/Kg | | 116 | 71 - 130 |
| Carbon disulfide | 49.7 | 44.5 | | ug/Kg | | 90 | 60 - 136 |
| Carbon tetrachloride | 49.7 | 50.5 | | ug/Kg | | 102 | 81 - 138 |
| Chlorobenzene | 49.7 | 49.5 | | ug/Kg | | 100 | 82 - 114 |
| Chloroethane | 49.7 | 49.5 | | ug/Kg | | 100 | 65 - 126 |
| Chloroform | 49.7 | 45.3 | | ug/Kg | | 91 | 77 - 127 |
| Chloromethane | 49.7 | 45.5 | | ug/Kg | | 92 | 60 - 149 |
| 2-Chlorotoluene | 49.7 | 56.5 | | ug/Kg | | 114 | 80 - 138 |
| 4-Chlorotoluene | 49.7 | 54.7 | | ug/Kg | | 110 | 79 - 136 |

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

**Lab Sample ID: LCS 720-101777/2-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorodibromomethane | 49.7 | 44.9 | | ug/Kg | | 90 | 75 - 146 |
| 1,2-Dichlorobenzene | 49.7 | 50.9 | | ug/Kg | | 102 | 84 - 130 |
| 1,3-Dichlorobenzene | 49.7 | 52.5 | | ug/Kg | | 106 | 84 - 131 |
| 1,4-Dichlorobenzene | 49.7 | 51.5 | | ug/Kg | | 104 | 85 - 125 |
| 1,3-Dichloropropane | 49.7 | 44.5 | | ug/Kg | | 90 | 79 - 140 |
| 1,1-Dichloropropene | 49.7 | 50.3 | | ug/Kg | | 101 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 49.7 | 51.9 | | ug/Kg | | 104 | 68 - 145 |
| Ethylene Dibromide | 49.7 | 43.3 | | ug/Kg | | 87 | 79 - 140 |
| Dibromomethane | 49.7 | 41.7 | | ug/Kg | | 84 | 80 - 139 |
| Dichlorodifluoromethane | 49.7 | 41.2 | | ug/Kg | | 83 | 37 - 158 |
| 1,1-Dichloroethane | 49.7 | 48.7 | | ug/Kg | | 98 | 76 - 119 |
| 1,2-Dichloroethane | 49.7 | 38.4 | | ug/Kg | | 77 | 72 - 130 |
| 1,1-Dichloroethene | 49.7 | 48.1 | | ug/Kg | | 97 | 68 - 119 |
| cis-1,2-Dichloroethene | 49.7 | 54.3 | | ug/Kg | | 109 | 87 - 138 |
| trans-1,2-Dichloroethene | 49.7 | 41.9 | | ug/Kg | | 84 | 67 - 108 |
| 1,2-Dichloropropane | 49.7 | 48.5 | | ug/Kg | | 98 | 73 - 127 |
| cis-1,3-Dichloropropene | 49.7 | 48.9 | | ug/Kg | | 98 | 68 - 147 |
| trans-1,3-Dichloropropene | 49.7 | 48.9 | | ug/Kg | | 98 | 84 - 136 |
| Ethylbenzene | 49.7 | 51.1 | | ug/Kg | | 103 | 80 - 137 |
| Hexachlorobutadiene | 49.7 | 53.9 | | ug/Kg | | 108 | 72 - 132 |
| 2-Hexanone | 249 | 192 | | ug/Kg | | 77 | 60 - 161 |
| Isopropylbenzene | 49.7 | 53.7 | | ug/Kg | | 108 | 88 - 128 |
| 4-Isopropyltoluene | 49.7 | 57.1 | | ug/Kg | | 115 | 85 - 133 |
| Methylene Chloride | 49.7 | 46.3 | | ug/Kg | | 93 | 72 - 134 |
| 4-Methyl-2-pentanone (MIBK) | 249 | 197 | | ug/Kg | | 79 | 69 - 160 |
| Naphthalene | 49.7 | 50.3 | | ug/Kg | | 101 | 70 - 147 |
| N-Propylbenzene | 49.7 | 55.9 | | ug/Kg | | 112 | 72 - 125 |
| Styrene | 49.7 | 51.1 | | ug/Kg | | 103 | 89 - 126 |
| 1,1,1,2-Tetrachloroethane | 49.7 | 52.5 | | ug/Kg | | 106 | 90 - 130 |
| 1,1,2,2-Tetrachloroethane | 49.7 | 49.7 | | ug/Kg | | 100 | 82 - 146 |
| Tetrachloroethene | 49.7 | 48.3 | | ug/Kg | | 97 | 78 - 132 |
| Toluene | 49.7 | 52.3 | | ug/Kg | | 105 | 80 - 114 |
| 1,2,3-Trichlorobenzene | 49.7 | 50.9 | | ug/Kg | | 102 | 82 - 135 |
| 1,2,4-Trichlorobenzene | 49.7 | 49.7 | | ug/Kg | | 100 | 70 - 131 |
| 1,1,1-Trichloroethane | 49.7 | 45.9 | | ug/Kg | | 92 | 80 - 127 |
| 1,1,2-Trichloroethane | 49.7 | 44.3 | | ug/Kg | | 89 | 82 - 125 |
| Trichloroethene | 49.7 | 48.1 | | ug/Kg | | 97 | 81 - 133 |
| Trichlorofluoromethane | 49.7 | 45.3 | | ug/Kg | | 91 | 71 - 139 |
| 1,2,3-Trichloropropane | 49.7 | 46.3 | | ug/Kg | | 93 | 76 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.7 | 46.5 | | ug/Kg | | 94 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 49.7 | 55.7 | | ug/Kg | | 112 | 84 - 130 |
| 1,3,5-Trimethylbenzene | 49.7 | 57.7 | | ug/Kg | | 116 | 82 - 131 |
| Vinyl acetate | 49.7 | ND | | ug/Kg | | 98 | 38 - 176 |
| Vinyl chloride | 49.7 | 45.1 | | ug/Kg | | 91 | 58 - 125 |
| m-Xylene & p-Xylene | 99.4 | 100 | | ug/Kg | | 101 | 79 - 146 |
| o-Xylene | 49.7 | 51.7 | | ug/Kg | | 104 | 84 - 140 |
| 2,2-Dichloropropane | 49.7 | 42.9 | | ug/Kg | | 86 | 73 - 162 |

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

**Lab Sample ID: LCS 720-101777/2-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* |

**Lab Sample ID: LCS 720-101777/4-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 994 | 917 | | ug/Kg | | 92 | 61 - 128 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101777/3-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.9 | 45.3 | | ug/Kg | | 91 | 71 - 144 | 3 | 20 |
| Acetone | 250 | 155 | | ug/Kg | | 62 | 30 - 162 | 1 | 30 |
| Benzene | 49.9 | 49.9 | | ug/Kg | | 100 | 77 - 113 | 1 | 20 |
| Dichlorobromomethane | 49.9 | 47.3 | | ug/Kg | | 95 | 86 - 131 | 1 | 20 |
| Bromobenzene | 49.9 | 50.7 | | ug/Kg | | 102 | 88 - 120 | 0 | 20 |
| Chlorobromomethane | 49.9 | 43.7 | | ug/Kg | | 88 | 81 - 116 | 0 | 20 |
| Bromoform | 49.9 | 48.3 | | ug/Kg | | 97 | 59 - 158 | 2 | 20 |
| Bromomethane | 49.9 | 46.1 | | ug/Kg | | 92 | 59 - 132 | 2 | 20 |
| 2-Butanone (MEK) | 250 | 169 | | ug/Kg | | 68 | 61 - 150 | 4 | 20 |
| n-Butylbenzene | 49.9 | 58.9 | | ug/Kg | | 118 | 80 - 142 | 1 | 20 |
| sec-Butylbenzene | 49.9 | 59.3 | | ug/Kg | | 119 | 85 - 136 | 1 | 20 |
| tert-Butylbenzene | 49.9 | 58.3 | | ug/Kg | | 117 | 71 - 130 | 1 | 20 |
| Carbon disulfide | 49.9 | 44.5 | | ug/Kg | | 89 | 60 - 136 | 0 | 20 |
| Carbon tetrachloride | 49.9 | 51.5 | | ug/Kg | | 103 | 81 - 138 | 2 | 20 |
| Chlorobenzene | 49.9 | 50.1 | | ug/Kg | | 100 | 82 - 114 | 1 | 20 |
| Chloroethane | 49.9 | 50.1 | | ug/Kg | | 100 | 65 - 126 | 1 | 20 |
| Chloroform | 49.9 | 45.7 | | ug/Kg | | 92 | 77 - 127 | 1 | 20 |
| Chloromethane | 49.9 | 46.7 | | ug/Kg | | 94 | 60 - 149 | 3 | 20 |
| 2-Chlorotoluene | 49.9 | 57.1 | | ug/Kg | | 114 | 80 - 138 | 1 | 20 |
| 4-Chlorotoluene | 49.9 | 55.3 | | ug/Kg | | 111 | 79 - 136 | 1 | 20 |
| Chlorodibromomethane | 49.9 | 44.5 | | ug/Kg | | 89 | 75 - 146 | 1 | 20 |
| 1,2-Dichlorobenzene | 49.9 | 50.3 | | ug/Kg | | 101 | 84 - 130 | 1 | 20 |
| 1,3-Dichlorobenzene | 49.9 | 52.7 | | ug/Kg | | 106 | 84 - 131 | 0 | 20 |
| 1,4-Dichlorobenzene | 49.9 | 51.7 | | ug/Kg | | 104 | 85 - 125 | 0 | 20 |
| 1,3-Dichloropropane | 49.9 | 43.7 | | ug/Kg | | 88 | 79 - 140 | 2 | 20 |
| 1,1-Dichloropropene | 49.9 | 50.7 | | ug/Kg | | 102 | 70 - 130 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 49.9 | 50.1 | | ug/Kg | | 100 | 68 - 145 | 4 | 20 |

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

**Lab Sample ID: LCSD 720-101777/3-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 49.9 | 42.9 | | ug/Kg | | 86 | 79 - 140 | 1 | 20 |
| Dibromomethane | 49.9 | 41.1 | | ug/Kg | | 82 | 80 - 139 | 2 | 20 |
| Dichlorodifluoromethane | 49.9 | 41.7 | | ug/Kg | | 84 | 37 - 158 | 1 | 20 |
| 1,1-Dichloroethane | 49.9 | 49.3 | | ug/Kg | | 99 | 76 - 119 | 1 | 20 |
| 1,2-Dichloroethane | 49.9 | 38.1 | | ug/Kg | | 76 | 72 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 49.9 | 48.7 | | ug/Kg | | 98 | 68 - 119 | 1 | 20 |
| cis-1,2-Dichloroethene | 49.9 | 54.1 | | ug/Kg | | 108 | 87 - 138 | 0 | 20 |
| trans-1,2-Dichloroethene | 49.9 | 42.5 | | ug/Kg | | 85 | 67 - 108 | 1 | 20 |
| 1,2-Dichloropropane | 49.9 | 48.5 | | ug/Kg | | 97 | 73 - 127 | 0 | 20 |
| cis-1,3-Dichloropropene | 49.9 | 48.5 | | ug/Kg | | 97 | 68 - 147 | 1 | 20 |
| trans-1,3-Dichloropropene | 49.9 | 47.9 | | ug/Kg | | 96 | 84 - 136 | 2 | 20 |
| Ethylbenzene | 49.9 | 52.1 | | ug/Kg | | 104 | 80 - 137 | 2 | 20 |
| Hexachlorobutadiene | 49.9 | 54.7 | | ug/Kg | | 110 | 72 - 132 | 1 | 20 |
| 2-Hexanone | 250 | 183 | | ug/Kg | | 73 | 60 - 161 | 5 | 20 |
| Isopropylbenzene | 49.9 | 54.7 | | ug/Kg | | 110 | 88 - 128 | 2 | 20 |
| 4-Isopropyltoluene | 49.9 | 58.1 | | ug/Kg | | 116 | 85 - 133 | 2 | 20 |
| Methylene Chloride | 49.9 | 46.5 | | ug/Kg | | 93 | 72 - 134 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 189 | | ug/Kg | | 76 | 69 - 160 | 4 | 20 |
| Naphthalene | 49.9 | 49.1 | | ug/Kg | | 98 | 70 - 147 | 2 | 20 |
| N-Propylbenzene | 49.9 | 57.1 | | ug/Kg | | 114 | 72 - 125 | 2 | 20 |
| Styrene | 49.9 | 51.3 | | ug/Kg | | 103 | 89 - 126 | 0 | 20 |
| 1,1,1,2-Tetrachloroethane | 49.9 | 52.7 | | ug/Kg | | 106 | 90 - 130 | 0 | 20 |
| 1,1,2,2-Tetrachloroethane | 49.9 | 47.5 | | ug/Kg | | 95 | 82 - 146 | 5 | 20 |
| Tetrachloroethene | 49.9 | 49.1 | | ug/Kg | | 98 | 78 - 132 | 2 | 20 |
| Toluene | 49.9 | 52.9 | | ug/Kg | | 106 | 80 - 114 | 1 | 20 |
| 1,2,3-Trichlorobenzene | 49.9 | 50.7 | | ug/Kg | | 102 | 82 - 135 | 0 | 20 |
| 1,2,4-Trichlorobenzene | 49.9 | 49.3 | | ug/Kg | | 99 | 70 - 131 | 1 | 20 |
| 1,1,1-Trichloroethane | 49.9 | 46.7 | | ug/Kg | | 94 | 80 - 127 | 2 | 20 |
| 1,1,2-Trichloroethane | 49.9 | 43.3 | | ug/Kg | | 87 | 82 - 125 | 2 | 20 |
| Trichloroethene | 49.9 | 48.7 | | ug/Kg | | 98 | 81 - 133 | 1 | 20 |
| Trichlorofluoromethane | 49.9 | 46.1 | | ug/Kg | | 92 | 71 - 139 | 2 | 20 |
| 1,2,3-Trichloropropane | 49.9 | 45.1 | | ug/Kg | | 90 | 76 - 146 | 3 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.9 | 46.9 | | ug/Kg | | 94 | 70 - 130 | 1 | 20 |
| 1,2,4-Trimethylbenzene | 49.9 | 55.5 | | ug/Kg | | 111 | 84 - 130 | 0 | 20 |
| 1,3,5-Trimethylbenzene | 49.9 | 58.3 | | ug/Kg | | 117 | 82 - 131 | 1 | 20 |
| Vinyl acetate | 49.9 | ND | | ug/Kg | | 93 | 38 - 176 | 5 | 20 |
| Vinyl chloride | 49.9 | 46.5 | | ug/Kg | | 93 | 58 - 125 | 3 | 20 |
| m-Xylene & p-Xylene | 99.8 | 102 | | ug/Kg | | 102 | 79 - 146 | 1 | 20 |
| o-Xylene | 49.9 | 51.9 | | ug/Kg | | 104 | 84 - 140 | 0 | 20 |
| 2,2-Dichloropropane | 49.9 | 43.5 | | ug/Kg | | 87 | 73 - 162 | 1 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* |

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

**Lab Sample ID: LCSD 720-101777/5-A**
**Matrix: Solid**
**Analysis Batch: 101763**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101777**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 996 | 899 | | ug/Kg | | 90 | 61 - 128 | 2 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *83* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* |

**Lab Sample ID: MB 720-101901/4**
**Matrix: Water**
**Analysis Batch: 101901**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/28/11 19:45 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |

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

**Lab Sample ID: MB 720-101901/4** **Client Sample ID: Method Blank**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 101901**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/28/11 19:45 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/28/11 19:45 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/28/11 19:45 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | | ug/L | | | 10/28/11 19:45 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *67 - 130* | | *10/28/11 19:45* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *75 - 138* | | *10/28/11 19:45* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* | | *10/28/11 19:45* | *1* |

**Lab Sample ID: LCS 720-101901/5** **Client Sample ID: Lab Control Sample**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 101901**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 25.0 | 28.5 | | ug/L | | 114 | 62 - 130 |
| Acetone | 125 | 94.6 | | ug/L | | 76 | 26 - 180 |
| Benzene | 25.0 | 24.9 | | ug/L | | 100 | 79 - 120 |
| Dichlorobromomethane | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 |
| Bromobenzene | 25.0 | 25.9 | | ug/L | | 104 | 79 - 127 |
| Chlorobromomethane | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 |
| Bromoform | 25.0 | 29.9 | | ug/L | | 120 | 68 - 136 |

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

**Lab Sample ID: LCS 720-101901/5**
**Client Sample ID: Lab Control Sample**
**Matrix: Water**
**Prep Type: Total/NA**
**Analysis Batch: 101901**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromomethane | 25.0 | 22.5 | | ug/L | | 90 | 43 - 151 |
| 2-Butanone (MEK) | 125 | 113 | | ug/L | | 90 | 54 - 124 |
| n-Butylbenzene | 25.0 | 26.7 | | ug/L | | 107 | 79 - 142 |
| sec-Butylbenzene | 25.0 | 26.2 | | ug/L | | 105 | 81 - 134 |
| tert-Butylbenzene | 25.0 | 26.7 | | ug/L | | 107 | 82 - 135 |
| Carbon disulfide | 25.0 | 21.5 | | ug/L | | 86 | 58 - 124 |
| Carbon tetrachloride | 25.0 | 26.8 | | ug/L | | 107 | 77 - 146 |
| Chlorobenzene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 |
| Chloroethane | 25.0 | 22.3 | | ug/L | | 89 | 62 - 138 |
| Chloroform | 25.0 | 25.1 | | ug/L | | 100 | 70 - 130 |
| Chloromethane | 25.0 | 20.5 | | ug/L | | 82 | 52 - 175 |
| 2-Chlorotoluene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| 4-Chlorotoluene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 |
| Chlorodibromomethane | 25.0 | 28.6 | | ug/L | | 114 | 78 - 145 |
| 1,2-Dichlorobenzene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 25.7 | | ug/L | | 103 | 87 - 118 |
| 1,3-Dichloropropane | 25.0 | 27.2 | | ug/L | | 109 | 75 - 124 |
| 1,1-Dichloropropene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 29.1 | | ug/L | | 116 | 72 - 136 |
| Ethylene Dibromide | 25.0 | 28.3 | | ug/L | | 113 | 70 - 130 |
| Dibromomethane | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 16.4 | | ug/L | | 66 | 34 - 132 |
| 1,1-Dichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 |
| 1,2-Dichloroethane | 25.0 | 25.9 | | ug/L | | 104 | 70 - 126 |
| 1,1-Dichloroethene | 25.0 | 22.3 | | ug/L | | 89 | 64 - 128 |
| cis-1,2-Dichloroethene | 25.0 | 28.5 | | ug/L | | 114 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 21.0 | | ug/L | | 84 | 68 - 118 |
| 1,2-Dichloropropane | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 |
| cis-1,3-Dichloropropene | 25.0 | 27.1 | | ug/L | | 108 | 81 - 126 |
| trans-1,3-Dichloropropene | 25.0 | 29.0 | | ug/L | | 116 | 83 - 140 |
| Ethylbenzene | 25.0 | 25.4 | | ug/L | | 102 | 84 - 120 |
| Hexachlorobutadiene | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 |
| 2-Hexanone | 125 | 135 | | ug/L | | 108 | 60 - 164 |
| Isopropylbenzene | 25.0 | 27.2 | | ug/L | | 109 | 70 - 130 |
| 4-Isopropyltoluene | 25.0 | 26.4 | | ug/L | | 106 | 70 - 130 |
| Methylene Chloride | 25.0 | 23.9 | | ug/L | | 96 | 73 - 147 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 139 | | ug/L | | 111 | 63 - 165 |
| Naphthalene | 25.0 | 27.2 | | ug/L | | 109 | 78 - 135 |
| N-Propylbenzene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |
| Styrene | 25.0 | 27.7 | | ug/L | | 111 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| Tetrachloroethene | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 |
| Toluene | 25.0 | 25.3 | | ug/L | | 101 | 80 - 113 |
| 1,2,3-Trichlorobenzene | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |
| 1,1,1-Trichloroethane | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 26.6 | | ug/L | | 106 | 78 - 125 |
| Trichloroethene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |

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

**Lab Sample ID: LCS 720-101901/5**
**Matrix: Water**
**Analysis Batch: 101901**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | 25.0 | 22.6 | | ug/L | | 90 | 66 - 132 |
| 1,2,3-Trichloropropane | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 23.8 | | ug/L | | 95 | 42 - 162 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.0 | | ug/L | | 104 | 70 - 132 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| Vinyl acetate | 25.0 | 25.7 | | ug/L | | 103 | 43 - 163 |
| Vinyl chloride | 25.0 | 20.1 | | ug/L | | 80 | 63 - 125 |
| m-Xylene & p-Xylene | 50.0 | 52.4 | | ug/L | | 105 | 70 - 142 |
| o-Xylene | 25.0 | 26.8 | | ug/L | | 107 | 85 - 127 |
| 2,2-Dichloropropane | 25.0 | 26.8 | | ug/L | | 107 | 70 - 140 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: LCS 720-101901/7**
**Matrix: Water**
**Analysis Batch: 101901**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 400 | | ug/L | | 80 | 62 - 117 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: LCSD 720-101901/6**
**Matrix: Water**
**Analysis Batch: 101901**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 25.0 | 26.9 | | ug/L | | 108 | 62 - 130 | 6 | 20 |
| Acetone | 125 | 89.1 | | ug/L | | 71 | 26 - 180 | 6 | 30 |
| Benzene | 25.0 | 24.1 | | ug/L | | 96 | 79 - 120 | 3 | 20 |
| Dichlorobromomethane | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 | 5 | 20 |
| Bromobenzene | 25.0 | 25.3 | | ug/L | | 101 | 79 - 127 | 2 | 20 |
| Chlorobromomethane | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 | 4 | 20 |
| Bromoform | 25.0 | 28.5 | | ug/L | | 114 | 68 - 136 | 5 | 20 |
| Bromomethane | 25.0 | 21.9 | | ug/L | | 88 | 43 - 151 | 3 | 20 |
| 2-Butanone (MEK) | 125 | 107 | | ug/L | | 86 | 54 - 124 | 5 | 20 |
| n-Butylbenzene | 25.0 | 25.9 | | ug/L | | 104 | 79 - 142 | 3 | 20 |
| sec-Butylbenzene | 25.0 | 25.9 | | ug/L | | 104 | 81 - 134 | 1 | 20 |
| tert-Butylbenzene | 25.0 | 26.2 | | ug/L | | 105 | 82 - 135 | 2 | 20 |
| Carbon disulfide | 25.0 | 20.9 | | ug/L | | 84 | 58 - 124 | 3 | 20 |
| Carbon tetrachloride | 25.0 | 25.0 | | ug/L | | 100 | 77 - 146 | 7 | 20 |
| Chlorobenzene | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 | 3 | 20 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

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

**Lab Sample ID: LCSD 720-101901/6**
**Matrix: Water**
**Analysis Batch: 101901**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Chloroethane | 25.0 | 22.3 | | ug/L | | 89 | 62 - 138 | 0 | 20 |
| Chloroform | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 | 4 | 20 |
| Chloromethane | 25.0 | 20.5 | | ug/L | | 82 | 52 - 175 | 0 | 20 |
| 2-Chlorotoluene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 | 2 | 20 |
| 4-Chlorotoluene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 | 2 | 20 |
| Chlorodibromomethane | 25.0 | 26.9 | | ug/L | | 108 | 78 - 145 | 6 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 | 3 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.3 | | ug/L | | 101 | 70 - 130 | 3 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.8 | | ug/L | | 99 | 87 - 118 | 4 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.8 | | ug/L | | 103 | 75 - 124 | 5 | 20 |
| 1,1-Dichloropropene | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 | 5 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 27.9 | | ug/L | | 112 | 72 - 136 | 4 | 20 |
| Ethylene Dibromide | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 | 7 | 20 |
| Dibromomethane | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 | 5 | 20 |
| Dichlorodifluoromethane | 25.0 | 15.7 | | ug/L | | 63 | 34 - 132 | 4 | 20 |
| 1,1-Dichloroethane | 25.0 | 23.9 | | ug/L | | 96 | 70 - 130 | 2 | 20 |
| 1,2-Dichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 70 - 126 | 6 | 20 |
| 1,1-Dichloroethene | 25.0 | 21.4 | | ug/L | | 86 | 64 - 128 | 4 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 | 4 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 20.5 | | ug/L | | 82 | 68 - 118 | 2 | 20 |
| 1,2-Dichloropropane | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 | 3 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 26.2 | | ug/L | | 105 | 81 - 126 | 3 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 27.7 | | ug/L | | 111 | 83 - 140 | 5 | 20 |
| Ethylbenzene | 25.0 | 24.6 | | ug/L | | 98 | 84 - 120 | 3 | 20 |
| Hexachlorobutadiene | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 | 2 | 20 |
| 2-Hexanone | 125 | 126 | | ug/L | | 101 | 60 - 164 | 7 | 20 |
| Isopropylbenzene | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 | 4 | 20 |
| 4-Isopropyltoluene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 | 3 | 20 |
| Methylene Chloride | 25.0 | 23.3 | | ug/L | | 93 | 73 - 147 | 3 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 131 | | ug/L | | 105 | 63 - 165 | 6 | 20 |
| Naphthalene | 25.0 | 26.8 | | ug/L | | 107 | 78 - 135 | 1 | 20 |
| N-Propylbenzene | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 | 2 | 20 |
| Styrene | 25.0 | 27.4 | | ug/L | | 110 | 70 - 130 | 1 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 | 4 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 | 3 | 20 |
| Tetrachloroethene | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 | 6 | 20 |
| Toluene | 25.0 | 24.5 | | ug/L | | 98 | 80 - 113 | 3 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 | 3 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 | 3 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 | 6 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.3 | | ug/L | | 101 | 78 - 125 | 5 | 20 |
| Trichloroethene | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 | 5 | 20 |
| Trichlorofluoromethane | 25.0 | 21.7 | | ug/L | | 87 | 66 - 132 | 4 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 26.6 | | ug/L | | 106 | 70 - 130 | 3 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 22.3 | | ug/L | | 89 | 42 - 162 | 7 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.3 | | ug/L | | 101 | 70 - 132 | 3 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.2 | | ug/L | | 105 | 70 - 130 | 3 | 20 |
| Vinyl acetate | 25.0 | 24.9 | | ug/L | | 100 | 43 - 163 | 3 | 20 |
| Vinyl chloride | 25.0 | 20.1 | | ug/L | | 80 | 63 - 125 | 0 | 20 |

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

**Lab Sample ID: LCSD 720-101901/6**
**Matrix: Water**
**Analysis Batch: 101901**

**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 |
|---|---|---|---|---|---|---|---|---|---|
| m-Xylene & p-Xylene | 50.0 | 50.4 | | ug/L | | 101 | 70 - 142 | 4 | 20 |
| o-Xylene | 25.0 | 25.7 | | ug/L | | 103 | 85 - 127 | 4 | 20 |
| 2,2-Dichloropropane | 25.0 | 25.8 | | ug/L | | 103 | 70 - 140 | 4 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 720-101901/8**
**Matrix: Water**
**Analysis Batch: 101901**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 389 | | ug/L | | 78 | 62 - 117 | 3 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: MB 720-101963/4**
**Matrix: Water**
**Analysis Batch: 101963**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/31/11 11:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/31/11 11:24 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *67 - 130* | | *10/31/11 11:24* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *84* | | *75 - 138* | | *10/31/11 11:24* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *10/31/11 11:24* | *1* |

**Lab Sample ID: LCS 720-101963/5**
**Matrix: Water**
**Analysis Batch: 101963**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *83* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *94* | | *70 - 130* |

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

**Lab Sample ID: LCSD 720-101963/6** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 101963**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 | 1 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 | 3 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *83* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: MB 720-101995/1-A** **Client Sample ID: Method Blank**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101962** **Prep Batch: 101995**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/31/11 07:00 | 10/31/11 09:51 | 100 |
| 1,4-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/31/11 07:00 | 10/31/11 09:51 | 100 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *66 - 148* | *10/31/11 07:00* | *10/31/11 09:51* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *62 - 137* | *10/31/11 07:00* | *10/31/11 09:51* | *100* |
| *Toluene-d8 (Surr)* | *98* | | *65 - 141* | *10/31/11 07:00* | *10/31/11 09:51* | *100* |

**Lab Sample ID: LCS 720-101995/2-A** **Client Sample ID: Lab Control Sample**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101962** **Prep Batch: 101995**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5000 | 5220 | | ug/Kg | | 104 | 67 - 126 |
| 1,4-Dichlorobenzene | 5000 | 5220 | | ug/Kg | | 104 | 76 - 130 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *66 - 148* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *62 - 137* |
| *Toluene-d8 (Surr)* | *100* | | *65 - 141* |

**Lab Sample ID: LCSD 720-101995/3-A** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** **Prep Type: Total/NA**
**Analysis Batch: 101962** **Prep Batch: 101995**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5000 | 5160 | | ug/Kg | | 103 | 67 - 126 | 1 | 20 |
| 1,4-Dichlorobenzene | 5000 | 5180 | | ug/Kg | | 104 | 76 - 130 | 1 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *66 - 148* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *62 - 137* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* |

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

**Lab Sample ID: MB 720-102117/4** **Client Sample ID: Method Blank**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 102117**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | | ug/L | | | 11/02/11 09:54 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *67 - 130* | | *11/02/11 09:54* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *75 - 138* | | *11/02/11 09:54* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *70 - 130* | | *11/02/11 09:54* | *1* |

**Lab Sample ID: LCS 720-102117/7** **Client Sample ID: Lab Control Sample**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 102117**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 370 | | ug/L | | 74 | 62 - 117 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *95* | | *70 - 130* |

**Lab Sample ID: LCSD 720-102117/8** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 102117**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 381 | | ug/L | | 76 | 62 - 117 | 3 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *102* | | *70 - 130* |

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

**Lab Sample ID: MB 720-101821/1-B** **Client Sample ID: Method Blank**
**Matrix: Water** **Prep Type: Dissolved**
**Analysis Batch: 102035** **Prep Batch: 101823**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 | | ug/L | | 10/27/11 16:47 | 11/02/11 00:28 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 99 | | ug/L | | 10/27/11 16:47 | 11/02/11 00:28 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.02* | | *0 - 5* | *10/27/11 16:47* | *11/02/11 00:28* | *1* |
| *p-Terphenyl* | *90* | | *31 - 150* | *10/27/11 16:47* | *11/02/11 00:28* | *1* |

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

**Lab Sample ID: LCS 720-101821/2-B** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 102035** — **Prep Batch: 101823**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 2500 | 1640 | | ug/L | | 65 | 32 - 119 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *100* | | *31 - 150* |

**Lab Sample ID: LCSD 720-101821/3-B** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Dissolved**
**Analysis Batch: 102035** — **Prep Batch: 101823**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 2500 | 1800 | | ug/L | | 72 | 32 - 119 | 10 | 35 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *95* | | *31 - 150* |

**Lab Sample ID: MB 720-101878/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Silica Gel Cleanup**
**Analysis Batch: 101967** — **Prep Batch: 101878**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.98 | | mg/Kg | | 10/28/11 13:00 | 10/31/11 20:10 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 10/28/11 13:00 | 10/31/11 20:10 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.01* | | *0 - 1* | *10/28/11 13:00* | *10/31/11 20:10* | *1* |
| *p-Terphenyl* | *94* | | *38 - 148* | *10/28/11 13:00* | *10/31/11 20:10* | *1* |

**Lab Sample ID: LCS 720-101878/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Silica Gel Cleanup**
**Analysis Batch: 101967** — **Prep Batch: 101878**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.6 | 68.0 | | mg/Kg | | 82 | 50 - 150 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *91* | | *38 - 148* |

**Lab Sample ID: LCSD 720-101878/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Silica Gel Cleanup**
**Analysis Batch: 101967** — **Prep Batch: 101878**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.8 | 57.3 | | mg/Kg | | 69 | 50 - 150 | 17 | 35 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

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

**Lab Sample ID: LCSD 720-101878/3-A**
**Matrix: Solid**
**Analysis Batch: 101967**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101878**

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *84* | | *38 - 148* |

## GC/MS VOA

### Analysis Batch: 101763

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-3 | FEPIT-EXS-9-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |
| 720-38344-4 | FEPIT-EXS-10-12 | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |
| LCS 720-101777/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |
| LCS 720-101777/4-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |
| LCSD 720-101777/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |
| LCSD 720-101777/5-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |
| MB 720-101777/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101777 |

### Prep Batch: 101777

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-3 | FEPIT-EXS-9-6 | Total/NA | Solid | 5035 | |
| 720-38344-4 | FEPIT-EXS-10-12 | Total/NA | Solid | 5035 | |
| LCS 720-101777/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 720-101777/4-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101777/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| LCSD 720-101777/5-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101777/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101901

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-1 | SUMP-EXB-WATER-1-16 | Total/NA | Water | 8260B/CA_LUFT MS | |
| 720-38344-2 | TB092811 | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-101901/5 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-101901/7 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-101901/6 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-101901/8 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 720-101901/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

### Analysis Batch: 101962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-3 | FEPIT-EXS-9-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101995 |
| LCS 720-101995/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101995 |
| LCSD 720-101995/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101995 |
| MB 720-101995/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101995 |

### Analysis Batch: 101963

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-1 | SUMP-EXB-WATER-1-16 | Total/NA | Water | 8260B/CA_LUFT MS | |

## GC/MS VOA (Continued)

### Analysis Batch: 101963 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101963/5 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-101963/6 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 720-101963/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

### Prep Batch: 101995

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-3 | FEPIT-EXS-9-6 | Total/NA | Solid | 5035 | |
| LCS 720-101995/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101995/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101995/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 102117

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-1 | SUMP-EXB-WATER-1-16 | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-102117/7 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-102117/8 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 720-102117/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

## GC Semi VOA

### Prep Batch: 101823

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-1 | SUMP-EXB-WATER-1-16 | Dissolved | Water | 3510C SGC | |
| LCS 720-101821/2-B | Lab Control Sample | Dissolved | Water | 3510C SGC | |
| LCSD 720-101821/3-B | Lab Control Sample Dup | Dissolved | Water | 3510C SGC | |
| MB 720-101821/1-B | Method Blank | Dissolved | Water | 3510C SGC | |

### Prep Batch: 101878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-3 | FEPIT-EXS-9-6 | Silica Gel Cleanup | Solid | 3546 | |
| 720-38344-4 | FEPIT-EXS-10-12 | Silica Gel Cleanup | Solid | 3546 | |
| LCS 720-101878/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 3546 | |
| LCSD 720-101878/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 3546 | |
| MB 720-101878/1-A | Method Blank | Silica Gel Cleanup | Solid | 3546 | |

### Analysis Batch: 101967

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101878/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 8015B | 101878 |
| LCSD 720-101878/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 8015B | 101878 |
| MB 720-101878/1-A | Method Blank | Silica Gel Cleanup | Solid | 8015B | 101878 |

### Analysis Batch: 102035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-1 | SUMP-EXB-WATER-1-16 | Dissolved | Water | 8015B | 101823 |
| 720-38344-4 | FEPIT-EXS-10-12 | Silica Gel Cleanup | Solid | 8015B | 101878 |
| LCS 720-101821/2-B | Lab Control Sample | Dissolved | Water | 8015B | 101823 |
| LCSD 720-101821/3-B | Lab Control Sample Dup | Dissolved | Water | 8015B | 101823 |

## GC Semi VOA (Continued)

### Analysis Batch: 102035 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 720-101821/1-B | Method Blank | Dissolved | Water | 8015B | 101823 |

### Analysis Batch: 102115

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38344-3 | FEPIT-EXS-9-6 | Silica Gel Cleanup | Solid | 8015B | 101878 |

## Client Sample ID: SUMP-EXB-WATER-1-16 — Lab Sample ID: 720-38344-1

**Date Collected: 10/26/11 12:50** — **Matrix: Water**
**Date Received: 10/26/11 18:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 10 | 101901 | 10/28/11 22:40 | YB | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 500 | 101963 | 10/31/11 18:10 | AC | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 500 | 102117 | 11/02/11 12:42 | AC | TAL SF |
| Dissolved | Prep | 3510C SGC | | | 101823 | 10/27/11 16:47 | RU | TAL SF |
| Dissolved | Analysis | 8015B | | 1 | 102035 | 11/02/11 00:53 | DH | TAL SF |

## Client Sample ID: TB092811 — Lab Sample ID: 720-38344-2

**Date Collected: 10/26/11 13:20** — **Matrix: Water**
**Date Received: 10/26/11 18:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101901 | 10/28/11 22:12 | YB | TAL SF |

## Client Sample ID: FEPIT-EXS-9-6 — Lab Sample ID: 720-38344-3

**Date Collected: 10/26/11 13:40** — **Matrix: Solid**
**Date Received: 10/26/11 18:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101777 | 10/27/11 08:32 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101763 | 10/27/11 15:53 | AC | TAL SF |
| Total/NA | Prep | 5035 | | | 101995 | 10/26/11 19:15 | AC | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101962 | 10/31/11 12:42 | AC | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101878 | 10/28/11 13:00 | NP | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 5 | 102115 | 11/02/11 12:33 | DH | TAL SF |

## Client Sample ID: FEPIT-EXS-10-12 — Lab Sample ID: 720-38344-4

**Date Collected: 10/26/11 14:35** — **Matrix: Solid**
**Date Received: 10/26/11 18:35**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101777 | 10/27/11 08:32 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101763 | 10/27/11 16:24 | AC | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101878 | 10/28/11 13:00 | NP | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | 102035 | 11/02/11 01:42 | DH | TAL SF |

**Laboratory References:**

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

# Certification Summary

Client: AMEC Geomatrix Inc.
TestAmerica Job ID: 720-38344-1
Project/Site: Crown Chevrolet Sump Exacavation

| Laboratory | Authority | Program | EPA Region | Certification ID |
| --- | --- | --- | --- | --- |
| TestAmerica San Francisco | California | State Program | 9 | 2496 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B/CA_LUFTMS | 8260B / CA LUFT MS | SW846 | TAL SF |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SF |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: AMEC Geomatrix Inc.

Project/Site: Crown Chevrolet Sump Exacavation

TestAmerica Job ID: 720-38344-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 720-38344-1 | SUMP-EXB-WATER-1-16 | Water | 10/26/11 12:50 | 10/26/11 18:35 |
| 720-38344-2 | TB092811 | Water | 10/26/11 13:20 | 10/26/11 18:35 |
| 720-38344-3 | FEPIT-EXS-9-6 | Solid | 10/26/11 13:40 | 10/26/11 18:35 |
| 720-38344-4 | FEPIT-EXS-10-12 | Solid | 10/26/11 14:35 | 10/26/11 18:35 |

Seq. No. 1040

Lab: Test America

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

# CHAIN OF CUSTODY FORM

amec

Samplers: Haely Young

720-38344

134553



Job Number: OD10160070.00005

Name/Location: Crown Chevrolet Sump Excavation, Dublin CA

Project Manager: Avery Patton

Recorder: Haely Young (Signature Required)

| | Water | Soil | Air | | Unpres. | H2SO4 | HNO3 | HCL | DI Water | MeOH | SAMPLE NUMBER | YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | 8260B (VOCs) | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd,mo (8015) | Silica Gel Cleanup | Filter using 0.7 micron glass-fiber filter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ① | X | | | | 4 | | | 6 | | | Sump-EXB-Water-1-16 | 11 | 10 | 26 | 1250 | | | X | | | X | X | X | X |
| | X | | | | | | | 3 | | | TB092811 | 11 | 10 | 26 | 1320 | | | X | | | | | | |
| | | X | | | 1 | | | | 2 | 1 | ~~8~~FEPit-EXS-9-6 | 11 | 10 | 26 | 1340 | | | X | | | X | X | X | |
| | | X | | | 1 | | | | 2 | 1 | FEPit-EXB-10-12 | 11 | 10 | 26 | 1435 | | | X | | | X | X | X | |

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#:

TAT: Standard

Comments: Field Filtered Y/N

- For TPHd,mo soil samples: Use silica gel cleanup
- For TPHd,mo water samples: filter using 0.7 micron glass-fiber filter prior to analysis.

① Hold ~~sample~~ (HY) 1/2 of sample volume from Sump-EXB-Water-1-16 until further notice. (Sample vol. divided)

## CHAIN OF CUSTODY RECORD

| Signature | Print Name | Company | Date/Time |
|---|---|---|---|
| Relinquished By (Signature): Haely Young | Haely Young | AMEC | 10/26/11 @ 1835 |
| Received By (Signature): Loren Mullen | Mullen | TestAmerica | 10-26-11 1835 |
| Relinquished By (Signature) | | | |
| Received By (Signature): | | | |
| Relinquished By (Signature) | | | |
| Received By (Signature): | | | |

Method of Shipment:

White - Laboratory Copy    Yellow - Project Office Copy    Pink - Field or Office Copy

3.1°

F1008

# Login Sample Receipt Checklist

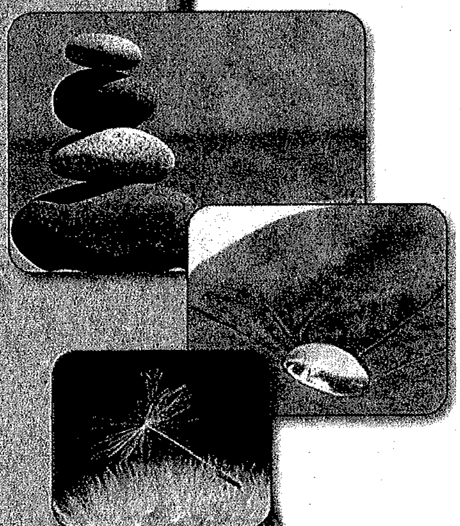
Client: AMEC Geomatrix Inc. Job Number: 720-38344-1

**Login Number: 38344** **List Source: TestAmerica San Francisco**
**List Number: 1**
**Creator: Mullen, Joan**

| 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 | |
| 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 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. | 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 San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38223-1
Client Project/Site: Crown Chevrolet

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

Attn: Avery Patton

*Authorized for release by:*
*11/02/2011 05:53:52 PM*

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com



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

# Table of Contents

## 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 |
| 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) |

# Case Narrative

## Job ID: 720-38223-1

Laboratory: TestAmerica San Francisco

**Narrative**

**Job Narrative**
**720-38223-1**

**Comments**
No additional comments.

**Receipt**
All samples were received in good condition within temperature requirements.

**GC/MS VOA**
No analytical or quality issues were noted.

**GC Semi VOA**

No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# Detection Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38223-1

## Client Sample ID: SUMP-EXS-1-9

Lab Sample ID: 720-38223-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 1300 | | 410 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 910 | | 410 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 28 | | 4.1 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |

## Client Sample ID: SUMP-EXS-2-8

Lab Sample ID: 720-38223-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 1600 | | 440 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 2700 | | 440 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 44 | | 4.9 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |

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

**Client Sample ID: SUMP-EXS-1-9**
**Date Collected: 10/19/11 09:10**
**Date Received: 10/19/11 17:55**

**Lab Sample ID: 720-38223-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Acetone | ND | | 41 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Benzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Dichlorobromomethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Bromobenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Chlorobromomethane | ND | | 17 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Bromoform | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Bromomethane | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 2-Butanone (MEK) | ND | | 41 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| n-Butylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| sec-Butylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| tert-Butylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Carbon disulfide | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Carbon tetrachloride | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| **Chlorobenzene** | **1300** | | 410 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 06:08 | 100 |
| Chloroethane | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Chloroform | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Chloromethane | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 2-Chlorotoluene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 4-Chlorotoluene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Chlorodibromomethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| **1,2-Dichlorobenzene** | **910** | | 410 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 06:08 | 100 |
| 1,3-Dichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| **1,4-Dichlorobenzene** | **28** | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,3-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Ethylene Dibromide | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Dibromomethane | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Dichlorodifluoromethane | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1-Dichloroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2-Dichloroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Ethylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Hexachlorobutadiene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 2-Hexanone | ND | | 41 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Isopropylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 4-Isopropyltoluene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Methylene Chloride | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 41 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Naphthalene | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| N-Propylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Styrene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |

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

Client Sample ID: SUMP-EXS-1-9
Date Collected: 10/19/11 09:10
Date Received: 10/19/11 17:55

Lab Sample ID: 720-38223-1
Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Tetrachloroethene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Toluene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Trichloroethene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Trichlorofluoromethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Vinyl acetate | ND | | 41 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Vinyl chloride | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Xylenes, Total | ND | | 8.3 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| 2,2-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 210 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 13:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *45 - 131* | *10/19/11 20:00* | *10/21/11 13:32* | *1* |
| *4-Bromofluorobenzene* | *95* | | *66 - 148* | *10/22/11 20:33* | *10/25/11 06:08* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *60 - 140* | *10/19/11 20:00* | *10/21/11 13:32* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *62 - 137* | *10/22/11 20:33* | *10/25/11 06:08* | *100* |
| *Toluene-d8 (Surr)* | *100* | | *58 - 140* | *10/19/11 20:00* | *10/21/11 13:32* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 141* | *10/22/11 20:33* | *10/25/11 06:08* | *100* |

Client Sample ID: SUMP-EXS-2-8
Date Collected: 10/19/11 12:40
Date Received: 10/19/11 17:55

Lab Sample ID: 720-38223-2
Matrix: Solid

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Acetone | ND | | 49 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Benzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Dichlorobromomethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Bromobenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Bromoform | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Bromomethane | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 2-Butanone (MEK) | ND | | 49 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| n-Butylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| sec-Butylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| tert-Butylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Carbon disulfide | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Carbon tetrachloride | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Chlorobenzene | 1600 | | 440 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 06:36 | 100 |
| Chloroethane | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Chloroform | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |

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

**Client Sample ID: SUMP-EXS-2-8** **Lab Sample ID: 720-38223-2**
**Date Collected: 10/19/11 12:40** **Matrix: Solid**
**Date Received: 10/19/11 17:55**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 2-Chlorotoluene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 4-Chlorotoluene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Chlorodibromomethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| **1,2-Dichlorobenzene** | **2700** | | 440 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 06:36 | 100 |
| 1,3-Dichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| **1,4-Dichlorobenzene** | **44** | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,3-Dichloropropane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1-Dichloropropene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Ethylene Dibromide | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Dibromomethane | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Dichlorodifluoromethane | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1-Dichloroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2-Dichloroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1-Dichloroethene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2-Dichloropropane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Ethylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Hexachlorobutadiene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 2-Hexanone | ND | | 49 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Isopropylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 4-Isopropyltoluene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Methylene Chloride | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 49 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Naphthalene | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| N-Propylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Styrene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Tetrachloroethene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Toluene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Trichloroethene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Trichlorofluoromethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Vinyl acetate | ND | | 49 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Vinyl chloride | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| Xylenes, Total | ND | | 9.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |
| 2,2-Dichloropropane | ND | | 4.9 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |

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

**Client Sample ID: SUMP-EXS-2-8**
**Date Collected: 10/19/11 12:40**
**Date Received: 10/19/11 17:55**

**Lab Sample ID: 720-38223-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/19/11 20:00 | 10/21/11 14:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *45 - 131* | *10/19/11 20:00* | *10/21/11 14:06* | *1* |
| *4-Bromofluorobenzene* | *93* | | *66 - 148* | *10/22/11 20:33* | *10/25/11 06:36* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *60 - 140* | *10/19/11 20:00* | *10/21/11 14:06* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *62 - 137* | *10/22/11 20:33* | *10/25/11 06:36* | *100* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* | *10/19/11 20:00* | *10/21/11 14:06* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 141* | *10/22/11 20:33* | *10/25/11 06:36* | *100* |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38223-1

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

**Client Sample ID: SUMP-EXS-1-9**
**Date Collected: 10/19/11 09:10**
**Date Received: 10/19/11 17:55**

**Lab Sample ID: 720-38223-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.99 | | mg/Kg | | 10/26/11 16:04 | 10/27/11 03:01 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 | | mg/Kg | | 10/26/11 16:04 | 10/27/11 03:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.09* | | *0 - 1* | *10/26/11 16:04* | *10/27/11 03:01* | *1* |
| *p-Terphenyl* | *99* | | *38 - 148* | *10/26/11 16:04* | *10/27/11 03:01* | *1* |

**Client Sample ID: SUMP-EXS-2-8**
**Date Collected: 10/19/11 12:40**
**Date Received: 10/19/11 17:55**

**Lab Sample ID: 720-38223-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1.0 | | mg/Kg | | 10/26/11 16:04 | 10/27/11 03:25 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 | | mg/Kg | | 10/26/11 16:04 | 10/27/11 03:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.01* | | *0 - 1* | *10/26/11 16:04* | *10/27/11 03:25* | *1* |
| *p-Terphenyl* | *98* | | *38 - 148* | *10/26/11 16:04* | *10/27/11 03:25* | *1* |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38223-1

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

**Lab Sample ID: MB 720-101388/1-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Bromomethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chloroethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chloromethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Dibromomethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Dichlorodifluoromethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Methylene Chloride | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Naphthalene | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38223-1

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

**Lab Sample ID: MB 720-101388/1-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Vinyl acetate | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Xylenes, Total | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *45 - 131* | *10/21/11 10:18* | *10/21/11 10:40* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *60 - 140* | *10/21/11 10:18* | *10/21/11 10:40* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* | *10/21/11 10:18* | *10/21/11 10:40* | *1* |

**Lab Sample ID: LCS 720-101388/2-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.9 | 51.1 | | ug/Kg | | 102 | 71 - 144 |
| Acetone | 250 | 303 | | ug/Kg | | 121 | 30 - 162 |
| Benzene | 49.9 | 49.1 | | ug/Kg | | 98 | 77 - 113 |
| Dichlorobromomethane | 49.9 | 48.5 | | ug/Kg | | 97 | 86 - 131 |
| Bromobenzene | 49.9 | 48.1 | | ug/Kg | | 96 | 88 - 120 |
| Chlorobromomethane | 49.9 | 45.7 | | ug/Kg | | 92 | 81 - 116 |
| Bromoform | 49.9 | 52.9 | | ug/Kg | | 106 | 59 - 158 |
| Bromomethane | 49.9 | 49.7 | | ug/Kg | | 100 | 59 - 132 |
| 2-Butanone (MEK) | 250 | 295 | | ug/Kg | | 118 | 61 - 150 |
| n-Butylbenzene | 49.9 | 54.5 | | ug/Kg | | 109 | 80 - 142 |
| sec-Butylbenzene | 49.9 | 52.3 | | ug/Kg | | 105 | 85 - 136 |
| tert-Butylbenzene | 49.9 | 52.9 | | ug/Kg | | 106 | 71 - 130 |
| Carbon disulfide | 49.9 | 49.9 | | ug/Kg | | 100 | 60 - 136 |
| Carbon tetrachloride | 49.9 | 50.5 | | ug/Kg | | 101 | 81 - 138 |
| Chlorobenzene | 49.9 | 49.1 | | ug/Kg | | 98 | 82 - 114 |
| Chloroethane | 49.9 | 49.3 | | ug/Kg | | 99 | 65 - 126 |
| Chloroform | 49.9 | 47.1 | | ug/Kg | | 94 | 77 - 127 |
| Chloromethane | 49.9 | 51.3 | | ug/Kg | | 103 | 60 - 149 |
| 2-Chlorotoluene | 49.9 | 51.5 | | ug/Kg | | 103 | 80 - 138 |
| 4-Chlorotoluene | 49.9 | 52.1 | | ug/Kg | | 104 | 79 - 136 |

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

**Lab Sample ID: LCS 720-101388/2-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorodibromomethane | 49.9 | 48.9 | | ug/Kg | | 98 | 75 - 146 |
| 1,2-Dichlorobenzene | 49.9 | 46.9 | | ug/Kg | | 94 | 84 - 130 |
| 1,3-Dichlorobenzene | 49.9 | 48.1 | | ug/Kg | | 96 | 84 - 131 |
| 1,4-Dichlorobenzene | 49.9 | 48.1 | | ug/Kg | | 96 | 85 - 125 |
| 1,3-Dichloropropane | 49.9 | 49.5 | | ug/Kg | | 99 | 79 - 140 |
| 1,1-Dichloropropene | 49.9 | 52.7 | | ug/Kg | | 106 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 49.9 | 55.5 | | ug/Kg | | 111 | 68 - 145 |
| Ethylene Dibromide | 49.9 | 49.9 | | ug/Kg | | 100 | 79 - 140 |
| Dibromomethane | 49.9 | 47.7 | | ug/Kg | | 96 | 80 - 139 |
| Dichlorodifluoromethane | 49.9 | 53.3 | | ug/Kg | | 107 | 37 - 158 |
| 1,1-Dichloroethane | 49.9 | 48.7 | | ug/Kg | | 98 | 76 - 119 |
| 1,2-Dichloroethane | 49.9 | 48.5 | | ug/Kg | | 97 | 72 - 130 |
| 1,1-Dichloroethene | 49.9 | 47.5 | | ug/Kg | | 95 | 68 - 119 |
| cis-1,2-Dichloroethene | 49.9 | 49.3 | | ug/Kg | | 99 | 87 - 138 |
| trans-1,2-Dichloroethene | 49.9 | 47.5 | | ug/Kg | | 95 | 67 - 108 |
| 1,2-Dichloropropane | 49.9 | 48.1 | | ug/Kg | | 96 | 73 - 127 |
| cis-1,3-Dichloropropene | 49.9 | 51.5 | | ug/Kg | | 103 | 68 - 147 |
| trans-1,3-Dichloropropene | 49.9 | 52.7 | | ug/Kg | | 106 | 84 - 136 |
| Ethylbenzene | 49.9 | 50.9 | | ug/Kg | | 102 | 80 - 137 |
| Hexachlorobutadiene | 49.9 | 47.1 | | ug/Kg | | 94 | 72 - 132 |
| 2-Hexanone | 250 | 309 | | ug/Kg | | 124 | 60 - 161 |
| Isopropylbenzene | 49.9 | 53.1 | | ug/Kg | | 106 | 88 - 128 |
| 4-Isopropyltoluene | 49.9 | 51.9 | | ug/Kg | | 104 | 85 - 133 |
| Methylene Chloride | 49.9 | 47.1 | | ug/Kg | | 94 | 72 - 134 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 301 | | ug/Kg | | 121 | 69 - 160 |
| Naphthalene | 49.9 | 54.3 | | ug/Kg | | 109 | 70 - 147 |
| N-Propylbenzene | 49.9 | 54.3 | | ug/Kg | | 109 | 72 - 125 |
| Styrene | 49.9 | 54.3 | | ug/Kg | | 109 | 89 - 126 |
| 1,1,1,2-Tetrachloroethane | 49.9 | 48.9 | | ug/Kg | | 98 | 90 - 130 |
| 1,1,2,2-Tetrachloroethane | 49.9 | 53.5 | | ug/Kg | | 107 | 82 - 146 |
| Tetrachloroethene | 49.9 | 48.1 | | ug/Kg | | 96 | 78 - 132 |
| Toluene | 49.9 | 50.1 | | ug/Kg | | 100 | 80 - 114 |
| 1,2,3-Trichlorobenzene | 49.9 | 47.3 | | ug/Kg | | 95 | 82 - 135 |
| 1,2,4-Trichlorobenzene | 49.9 | 50.5 | | ug/Kg | | 101 | 70 - 131 |
| 1,1,1-Trichloroethane | 49.9 | 49.3 | | ug/Kg | | 99 | 80 - 127 |
| 1,1,2-Trichloroethane | 49.9 | 49.1 | | ug/Kg | | 98 | 82 - 125 |
| Trichloroethene | 49.9 | 48.3 | | ug/Kg | | 97 | 81 - 133 |
| Trichlorofluoromethane | 49.9 | 49.7 | | ug/Kg | | 100 | 71 - 139 |
| 1,2,3-Trichloropropane | 49.9 | 52.5 | | ug/Kg | | 105 | 76 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.9 | 48.5 | | ug/Kg | | 97 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 49.9 | 53.5 | | ug/Kg | | 107 | 84 - 130 |
| 1,3,5-Trimethylbenzene | 49.9 | 53.7 | | ug/Kg | | 108 | 82 - 131 |
| Vinyl acetate | 49.9 | 61.7 | | ug/Kg | | 124 | 38 - 176 |
| Vinyl chloride | 49.9 | 50.1 | | ug/Kg | | 100 | 58 - 125 |
| m-Xylene & p-Xylene | 99.8 | 104 | | ug/Kg | | 104 | 79 - 146 |
| o-Xylene | 49.9 | 52.1 | | ug/Kg | | 104 | 84 - 140 |
| 2,2-Dichloropropane | 49.9 | 59.9 | | ug/Kg | | 120 | 73 - 162 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38223-1

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

**Lab Sample ID: LCS 720-101388/2-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 105 | | 45 - 131 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 60 - 140 |
| Toluene-d8 (Surr) | 101 | | 58 - 140 |

**Lab Sample ID: LCS 720-101388/4-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 994 | 836 | | ug/Kg | | 84 | 61 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 107 | | 45 - 131 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 60 - 140 |
| Toluene-d8 (Surr) | 102 | | 58 - 140 |

**Lab Sample ID: LCSD 720-101388/3-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.6 | 51.0 | | ug/Kg | | 103 | 71 - 144 | 0 | 20 |
| Acetone | 248 | 244 | | ug/Kg | | 98 | 30 - 162 | 22 | 30 |
| Benzene | 49.6 | 49.8 | | ug/Kg | | 100 | 77 - 113 | 1 | 20 |
| Dichlorobromomethane | 49.6 | 49.6 | | ug/Kg | | 100 | 86 - 131 | 2 | 20 |
| Bromobenzene | 49.6 | 48.4 | | ug/Kg | | 98 | 88 - 120 | 1 | 20 |
| Chlorobromomethane | 49.6 | 46.2 | | ug/Kg | | 93 | 81 - 116 | 1 | 20 |
| Bromoform | 49.6 | 49.8 | | ug/Kg | | 100 | 59 - 158 | 6 | 20 |
| Bromomethane | 49.6 | 49.8 | | ug/Kg | | 100 | 59 - 132 | 0 | 20 |
| 2-Butanone (MEK) | 248 | 246 | | ug/Kg | | 99 | 61 - 150 | 18 | 20 |
| n-Butylbenzene | 49.6 | 53.4 | | ug/Kg | | 108 | 80 - 142 | 2 | 20 |
| sec-Butylbenzene | 49.6 | 51.6 | | ug/Kg | | 104 | 85 - 136 | 1 | 20 |
| tert-Butylbenzene | 49.6 | 52.6 | | ug/Kg | | 106 | 71 - 130 | 1 | 20 |
| Carbon disulfide | 49.6 | 48.8 | | ug/Kg | | 98 | 60 - 136 | 2 | 20 |
| Carbon tetrachloride | 49.6 | 50.0 | | ug/Kg | | 101 | 81 - 138 | 1 | 20 |
| Chlorobenzene | 49.6 | 49.2 | | ug/Kg | | 99 | 82 - 114 | 0 | 20 |
| Chloroethane | 49.6 | 49.0 | | ug/Kg | | 99 | 65 - 126 | 1 | 20 |
| Chloroform | 49.6 | 48.0 | | ug/Kg | | 97 | 77 - 127 | 2 | 20 |
| Chloromethane | 49.6 | 51.2 | | ug/Kg | | 103 | 60 - 149 | 0 | 20 |
| 2-Chlorotoluene | 49.6 | 51.2 | | ug/Kg | | 103 | 80 - 138 | 1 | 20 |
| 4-Chlorotoluene | 49.6 | 51.8 | | ug/Kg | | 104 | 79 - 136 | 1 | 20 |
| Chlorodibromomethane | 49.6 | 49.4 | | ug/Kg | | 100 | 75 - 146 | 1 | 20 |
| 1,2-Dichlorobenzene | 49.6 | 47.2 | | ug/Kg | | 95 | 84 - 130 | 1 | 20 |
| 1,3-Dichlorobenzene | 49.6 | 48.6 | | ug/Kg | | 98 | 84 - 131 | 1 | 20 |
| 1,4-Dichlorobenzene | 49.6 | 47.6 | | ug/Kg | | 96 | 85 - 125 | 1 | 20 |
| 1,3-Dichloropropane | 49.6 | 49.0 | | ug/Kg | | 99 | 79 - 140 | 1 | 20 |
| 1,1-Dichloropropene | 49.6 | 52.2 | | ug/Kg | | 105 | 70 - 130 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 49.6 | 46.4 | | ug/Kg | | 94 | 68 - 145 | 18 | 20 |

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

Lab Sample ID: LCSD 720-101388/3-A
Matrix: Solid
Analysis Batch: 101362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101388

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 49.6 | 48.2 | | ug/Kg | | 97 | 79 - 140 | 3 | 20 |
| Dibromomethane | 49.6 | 47.4 | | ug/Kg | | 96 | 80 - 139 | 1 | 20 |
| Dichlorodifluoromethane | 49.6 | 52.6 | | ug/Kg | | 106 | 37 - 158 | 1 | 20 |
| 1,1-Dichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 76 - 119 | 1 | 20 |
| 1,2-Dichloroethane | 49.6 | 48.8 | | ug/Kg | | 98 | 72 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 49.6 | 47.4 | | ug/Kg | | 96 | 68 - 119 | 0 | 20 |
| cis-1,2-Dichloroethene | 49.6 | 50.2 | | ug/Kg | | 101 | 87 - 138 | 2 | 20 |
| trans-1,2-Dichloroethene | 49.6 | 47.6 | | ug/Kg | | 96 | 67 - 108 | 0 | 20 |
| 1,2-Dichloropropane | 49.6 | 50.0 | | ug/Kg | | 101 | 73 - 127 | 4 | 20 |
| cis-1,3-Dichloropropene | 49.6 | 52.4 | | ug/Kg | | 106 | 68 - 147 | 2 | 20 |
| trans-1,3-Dichloropropene | 49.6 | 53.0 | | ug/Kg | | 107 | 84 - 136 | 1 | 20 |
| Ethylbenzene | 49.6 | 50.6 | | ug/Kg | | 102 | 80 - 137 | 1 | 20 |
| Hexachlorobutadiene | 49.6 | 47.0 | | ug/Kg | | 95 | 72 - 132 | 0 | 20 |
| 2-Hexanone | 248 | 260 | | ug/Kg | | 105 | 60 - 161 | 17 | 20 |
| Isopropylbenzene | 49.6 | 53.2 | | ug/Kg | | 107 | 88 - 128 | 0 | 20 |
| 4-Isopropyltoluene | 49.6 | 51.6 | | ug/Kg | | 104 | 85 - 133 | 1 | 20 |
| Methylene Chloride | 49.6 | 48.2 | | ug/Kg | | 97 | 72 - 134 | 2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 248 | 262 | | ug/Kg | | 105 | 69 - 160 | 14 | 20 |
| Naphthalene | 49.6 | 50.4 | | ug/Kg | | 102 | 70 - 147 | 7 | 20 |
| N-Propylbenzene | 49.6 | 53.4 | | ug/Kg | | 108 | 72 - 125 | 2 | 20 |
| Styrene | 49.6 | 54.6 | | ug/Kg | | 110 | 89 - 126 | 0 | 20 |
| 1,1,1,2-Tetrachloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 90 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 49.6 | 48.0 | | ug/Kg | | 97 | 82 - 146 | 11 | 20 |
| Tetrachloroethene | 49.6 | 48.0 | | ug/Kg | | 97 | 78 - 132 | 0 | 20 |
| Toluene | 49.6 | 50.2 | | ug/Kg | | 101 | 80 - 114 | 0 | 20 |
| 1,2,3-Trichlorobenzene | 49.6 | 47.4 | | ug/Kg | | 96 | 82 - 135 | 0 | 20 |
| 1,2,4-Trichlorobenzene | 49.6 | 50.8 | | ug/Kg | | 102 | 70 - 131 | 1 | 20 |
| 1,1,1-Trichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 80 - 127 | 0 | 20 |
| 1,1,2-Trichloroethane | 49.6 | 48.2 | | ug/Kg | | 97 | 82 - 125 | 2 | 20 |
| Trichloroethene | 49.6 | 48.4 | | ug/Kg | | 98 | 81 - 133 | 0 | 20 |
| Trichlorofluoromethane | 49.6 | 49.2 | | ug/Kg | | 99 | 71 - 139 | 1 | 20 |
| 1,2,3-Trichloropropane | 49.6 | 46.6 | | ug/Kg | | 94 | 76 - 146 | 12 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.6 | 48.2 | | ug/Kg | | 97 | 70 - 130 | 1 | 20 |
| 1,2,4-Trimethylbenzene | 49.6 | 54.0 | | ug/Kg | | 109 | 84 - 130 | 1 | 20 |
| 1,3,5-Trimethylbenzene | 49.6 | 53.8 | | ug/Kg | | 108 | 82 - 131 | 0 | 20 |
| Vinyl acetate | 49.6 | 58.3 | | ug/Kg | | 118 | 38 - 176 | 6 | 20 |
| Vinyl chloride | 49.6 | 48.2 | | ug/Kg | | 97 | 58 - 125 | 4 | 20 |
| m-Xylene & p-Xylene | 99.2 | 104 | | ug/Kg | | 105 | 79 - 146 | 0 | 20 |
| o-Xylene | 49.6 | 52.2 | | ug/Kg | | 105 | 84 - 140 | 0 | 20 |
| 2,2-Dichloropropane | 49.6 | 55.8 | | ug/Kg | | 112 | 73 - 162 | 7 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *106* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *103* | | *58 - 140* |

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

**Lab Sample ID: LCSD 720-101388/5-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | | | 998 | 853 | | ug/Kg | | 85 | 61 - 128 | 2 | 20 |

| Surrogate | LCSD % Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 105 | | 45 - 131 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 60 - 140 |
| Toluene-d8 (Surr) | 102 | | 58 - 140 |

**Lab Sample ID: MB 720-101575/1-A**
**Matrix: Solid**
**Analysis Batch: 101542**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101575**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| 1,2-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |

| Surrogate | MB % Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 97 | | 66 - 148 | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 62 - 137 | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| Toluene-d8 (Surr) | 98 | | 65 - 141 | 10/22/11 20:33 | 10/25/11 02:38 | 100 |

**Lab Sample ID: LCS 720-101575/2-A**
**Matrix: Solid**
**Analysis Batch: 101542**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101575**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | | | 5000 | 5100 | | ug/Kg | | 102 | 81 - 128 |
| 1,2-Dichlorobenzene | | | 5000 | 5160 | | ug/Kg | | 103 | 67 - 126 |

| Surrogate | LCS % Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 94 | | 66 - 148 |
| 1,2-Dichloroethane-d4 (Surr) | 76 | | 62 - 137 |
| Toluene-d8 (Surr) | 99 | | 65 - 141 |

**Lab Sample ID: LCSD 720-101575/3-A**
**Matrix: Solid**
**Analysis Batch: 101542**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101575**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | | | 5000 | 5140 | | ug/Kg | | 103 | 81 - 128 | 1 | 20 |
| 1,2-Dichlorobenzene | | | 5000 | 5140 | | ug/Kg | | 103 | 67 - 126 | 0 | 20 |

| Surrogate | LCSD % Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 96 | | 66 - 148 |
| 1,2-Dichloroethane-d4 (Surr) | 76 | | 62 - 137 |
| Toluene-d8 (Surr) | 99 | | 65 - 141 |

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

Lab Sample ID: MB 720-101720/1-A
Matrix: Solid
Analysis Batch: 101766

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 101720

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.99 | | mg/Kg | | 10/26/11 13:20 | 10/27/11 10:22 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 | | mg/Kg | | 10/26/11 13:20 | 10/27/11 10:22 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0* | | *0 - 1* | *10/26/11 13:20* | *10/27/11 10:22* | *1* |
| *p-Terphenyl* | *90* | | *38 - 148* | *10/26/11 13:20* | *10/27/11 10:22* | *1* |

Lab Sample ID: LCS 720-101720/2-A
Matrix: Solid
Analysis Batch: 101766

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 101720

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.4 | 58.4 | | mg/Kg | | 71 | 50 - 150 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *91* | | *38 - 148* |

Lab Sample ID: LCSD 720-101720/3-A
Matrix: Solid
Analysis Batch: 101766

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 101720

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.4 | 56.0 | | mg/Kg | | 68 | 50 - 150 | 4 | 35 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *88* | | *38 - 148* |

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

## GC/MS VOA

### Analysis Batch: 101362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| 720-38223-2 | SUMP-EXS-2-8 | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCS 720-101388/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCS 720-101388/4-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCSD 720-101388/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCSD 720-101388/5-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| MB 720-101388/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |

### Prep Batch: 101388

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Total/NA | Solid | 5035 | |
| 720-38223-2 | SUMP-EXS-2-8 | Total/NA | Solid | 5035 | |
| LCS 720-101388/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 720-101388/4-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101388/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| LCSD 720-101388/5-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101388/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101541

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| 720-38223-2 | SUMP-EXS-2-8 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |

### Analysis Batch: 101542

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101575/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| LCSD 720-101575/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| MB 720-101575/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |

### Prep Batch: 101575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Total/NA | Solid | 5035 | |
| 720-38223-2 | SUMP-EXS-2-8 | Total/NA | Solid | 5035 | |
| LCS 720-101575/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101575/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101575/1-A | Method Blank | Total/NA | Solid | 5035 | |

## GC Semi VOA

### Analysis Batch: 101682

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Silica Gel Cleanup | Solid | 8015B | 101720 |
| 720-38223-2 | SUMP-EXS-2-8 | Silica Gel Cleanup | Solid | 8015B | 101720 |

## GC Semi VOA (Continued)

### Prep Batch: 101720

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Silica Gel Cleanup | Solid | 3546 | |
| 720-38223-2 | SUMP-EXS-2-8 | Silica Gel Cleanup | Solid | 3546 | |
| LCS 720-101720/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 3546 | |
| LCSD 720-101720/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 3546 | |
| MB 720-101720/1-A | Method Blank | Silica Gel Cleanup | Solid | 3546 | |

### Analysis Batch: 101766

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101720/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 8015B | 101720 |
| LCSD 720-101720/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 8015B | 101720 |
| MB 720-101720/1-A | Method Blank | Silica Gel Cleanup | Solid | 8015B | 101720 |

# Lab Chronicle

## Client Sample ID: SUMP-EXS-1-9

**Lab Sample ID: 720-38223-1**

Date Collected: 10/19/11 09:10
Date Received: 10/19/11 17:55

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101388 | 10/19/11 20:00 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101362 | 10/21/11 13:32 | AC | TAL SF |
| Total/NA | Prep | 5035 | | | 101575 | 10/22/11 20:33 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101541 | 10/25/11 06:08 | LL | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101720 | 10/26/11 16:04 | JRM | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | 101682 | 10/27/11 03:01 | DH | TAL SF |

## Client Sample ID: SUMP-EXS-2-8

**Lab Sample ID: 720-38223-2**

Date Collected: 10/19/11 12:40
Date Received: 10/19/11 17:55

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101388 | 10/19/11 20:00 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101362 | 10/21/11 14:06 | AC | TAL SF |
| Total/NA | Prep | 5035 | | | 101575 | 10/22/11 20:33 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101541 | 10/25/11 06:36 | LL | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101720 | 10/26/11 16:04 | JRM | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | 101682 | 10/27/11 03:25 | DH | TAL SF |

**Laboratory References:**

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

# Certification Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38223-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica San Francisco | California | State Program | 9 | 2496 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary



| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B/CA_LUFTMS | 8260B / CA LUFT MS | SW846 | TAL SF |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SF |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary



| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 720-38223-1 | SUMP-EXS-1-9 | Solid | 10/19/11 09:10 | 10/19/11 17:55 |
| 720-38223-2 | SUMP-EXS-2-8 | Solid | 10/19/11 12:40 | 10/19/11 17:55 |

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

Seq. No. 1034

Lab: Test America

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

# CHAIN OF CUSTODY FORM

amec

11/02/2011

Samplers: Haely Young

720-38223

134432.

Job Number: 0D10160070.00005

Name/Location: Crown Chevrolet Sump Excavation

Project Manager: Avery Patton

Recorder: Haely Young (Signature Required)

| MATRIX: Water | Soil | Air | | # CONTAINERS: Unpres. | H2SO4 | HNO3 | HCL | MeOH | DI Water | SAMPLE NUMBER | DATE: YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | ANALYSIS REQUESTED: 8260B VOCs | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd, mo (8015) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | | 1 | | | | 1 | 2 | Sump-ExS-1-9 | 11 | 10 | 19 | 0910 | | | X | | | X | X |
| | X | | | 1 | | | | 1 | 2 | Sump-ExS-2-8 | 11 | 10 | 19 | 1240 | | | X | | | X | X |

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#:

TAT: Standard

Comments: Field Filtered Y/N

## CHAIN OF CUSTODY RECORD

| Relinquished By (Signature) | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| Haely Young | Haely Young | AMEC | 10/19/11 @ 1755 |

| Received By (Signature): | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | Anticipated | TASF | 10/19/11 1755 |

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Method of Shipment:

White - Laboratory Copy Yellow - Project Office Copy Pink - Field or Office Copy 5.6°C F1008-E

# Login Sample Receipt Checklist

Client: AMEC Geomatrix Inc.

Job Number: 720-38223-1

**Login Number: 38223**
**List Number: 1**
**Creator: Apostol, Anita**

**List Source: TestAmerica San Francisco**

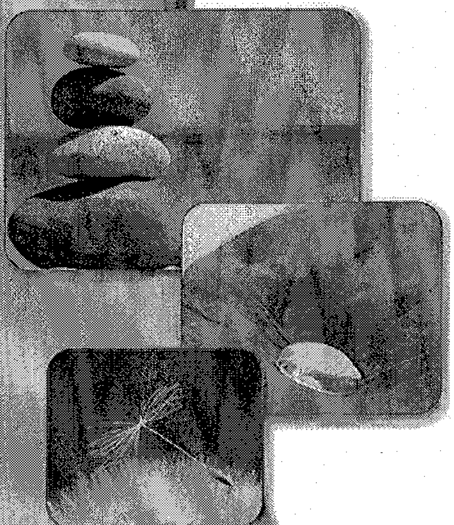
| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | 5.6 |
| 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 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. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919



TestAmerica Job ID: 720-38238-1
Client Project/Site: Crown Chevrolet
Revision: 1

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

Attn: Avery Patton

*Authorized for release by:*
*11/18/2011 11:58:50 AM*

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com



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

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

# Table of Contents

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1



## 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 |
| 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) |

## Job ID: 720-38238-1

**Laboratory: TestAmerica San Francisco**

**Narrative**

**Job Narrative**
**720-38238-1**

Revised the Case Narrative on 11/18/11.
**Comments**
No additional comments.

**Receipt**
All samples were received in good condition within temperature requirements.

**GC/MS VOA**
No other analytical or quality issues were noted.

**GC Semi VOA**
No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# Detection Summary

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38238-1
Project/Site: Crown Chevrolet

## Client Sample ID: SUMP-EXS-3-8 Lab Sample ID: 720-38238-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 18 | | 4.2 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 1500 | | 520 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 18 | | 4.2 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |

## Client Sample ID: SUMP-EXS-4-8 Lab Sample ID: 720-38238-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 2500 | | 460 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 48 | | 4.6 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Gasoline Range Organics (GRO) -C5-C12 | 1200 | | 230 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 1400 | | 460 | | ug/Kg | 100 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 1.2 | | 0.99 | | mg/Kg | 1 | | 8015B | Silica Gel Cleai |

# Client Sample Results

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38238-1
Project/Site: Crown Chevrolet

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

**Client Sample ID: SUMP-EXS-3-8** **Lab Sample ID: 720-38238-1**
**Date Collected: 10/20/11 09:25** **Matrix: Solid**
**Date Received: 10/20/11 16:30**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Acetone | ND | | 42 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Benzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Dichlorobromomethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Bromobenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Chlorobromomethane | ND | | 17 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Bromoform | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Bromomethane | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 2-Butanone (MEK) | ND | | 42 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| n-Butylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| sec-Butylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| tert-Butylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Carbon disulfide | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Carbon tetrachloride | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| **Chlorobenzene** | **18** | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Chloroethane | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Chloroform | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Chloromethane | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 2-Chlorotoluene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 4-Chlorotoluene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Chlorodibromomethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| **1,2-Dichlorobenzene** | **1500** | | 520 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 06:47 | 100 |
| 1,3-Dichlorobenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| **1,4-Dichlorobenzene** | **18** | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,3-Dichloropropane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1-Dichloropropene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Ethylene Dibromide | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Dibromomethane | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Dichlorodifluoromethane | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1-Dichloroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2-Dichloroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1-Dichloroethene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2-Dichloropropane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Ethylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Hexachlorobutadiene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 2-Hexanone | ND | | 42 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Isopropylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 4-Isopropyltoluene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Methylene Chloride | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 42 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Naphthalene | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| N-Propylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Styrene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |

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

**Client Sample ID: SUMP-EXS-3-8**
**Date Collected: 10/20/11 09:25**
**Date Received: 10/20/11 16:30**

**Lab Sample ID: 720-38238-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Tetrachloroethene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Toluene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Trichloroethene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Trichlorofluoromethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Vinyl acetate | ND | | 42 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Vinyl chloride | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Xylenes, Total | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| 2,2-Dichloropropane | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 210 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| TBA | ND | | 8.4 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| DIPE | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| TAME | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 4.2 | | ug/Kg | | 10/20/11 17:30 | 10/25/11 13:52 | 1 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *66 - 148* | *10/22/11 20:33* | *10/25/11 06:47* | *100* |
| *4-Bromofluorobenzene* | *97* | | *45 - 131* | *10/20/11 17:30* | *10/25/11 13:52* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *62 - 137* | *10/22/11 20:33* | *10/25/11 06:47* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *60 - 140* | *10/20/11 17:30* | *10/25/11 13:52* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* | *10/22/11 20:33* | *10/25/11 06:47* | *100* |
| *Toluene-d8 (Surr)* | *93* | | *58 - 140* | *10/20/11 17:30* | *10/25/11 13:52* | *1* |

**Client Sample ID: SUMP-EXS-4-8**
**Date Collected: 10/20/11 11:40**
**Date Received: 10/20/11 16:30**

**Lab Sample ID: 720-38238-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Acetone | ND | | 46 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Benzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Dichlorobromomethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Bromobenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Chlorobromomethane | ND | | 19 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Bromoform | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Bromomethane | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 2-Butanone (MEK) | ND | | 46 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| n-Butylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| sec-Butylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| tert-Butylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Carbon disulfide | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |

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

**Client Sample ID: SUMP-EXS-4-8**
**Date Collected: 10/20/11 11:40**
**Date Received: 10/20/11 16:30**

**Lab Sample ID: 720-38238-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbon tetrachloride | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Chloroethane | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Chloroform | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Chloromethane | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 2-Chlorotoluene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 4-Chlorotoluene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Chlorodibromomethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| **1,2-Dichlorobenzene** | **2500** | | 460 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 07:18 | 100 |
| 1,3-Dichlorobenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| **1,4-Dichlorobenzene** | **48** | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,3-Dichloropropane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1-Dichloropropene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Ethylene Dibromide | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Dibromomethane | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Dichlorodifluoromethane | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1-Dichloroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2-Dichloroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1-Dichloroethene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2-Dichloropropane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Ethylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Hexachlorobutadiene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 2-Hexanone | ND | | 46 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Isopropylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 4-Isopropyltoluene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Methylene Chloride | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 46 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Naphthalene | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| N-Propylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Styrene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Tetrachloroethene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Toluene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Trichloroethene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Trichlorofluoromethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Vinyl acetate | ND | | 46 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |

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

**Client Sample ID: SUMP-EXS-4-8** **Lab Sample ID: 720-38238-2**
**Date Collected: 10/20/11 11:40** **Matrix: Solid**
**Date Received: 10/20/11 16:30**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Xylenes, Total | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| 2,2-Dichloropropane | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| **Gasoline Range Organics (GRO) -C5-C12** | **1200** | | 230 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| TBA | ND | | 9.3 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| DIPE | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| TAME | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 4.6 | | ug/Kg | | 10/20/11 17:30 | 10/21/11 14:38 | 1 |
| **Chlorobenzene** | **1400** | | 460 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 07:18 | 100 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *45 - 131* | *10/20/11 17:30* | *10/21/11 14:38* | *1* |
| *4-Bromofluorobenzene* | *98* | | *66 - 148* | *10/22/11 20:33* | *10/25/11 07:18* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *60 - 140* | *10/20/11 17:30* | *10/21/11 14:38* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *62 - 137* | *10/22/11 20:33* | *10/25/11 07:18* | *100* |
| *Toluene-d8 (Surr)* | *100* | | *58 - 140* | *10/20/11 17:30* | *10/21/11 14:38* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* | *10/22/11 20:33* | *10/25/11 07:18* | *100* |

# Client Sample Results

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

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

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

**Client Sample ID: SUMP-EXS-3-8**
**Date Collected: 10/20/11 09:25**
**Date Received: 10/20/11 16:30**

**Lab Sample ID: 720-38238-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.99 | | mg/Kg | | 10/25/11 10:07 | 10/26/11 11:26 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 10/25/11 10:07 | 10/26/11 11:26 | 1 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.03* | | *0 - 1* | *10/25/11 10:07* | *10/26/11 11:26* | *1* |
| *p-Terphenyl* | *103* | | *38 - 148* | *10/25/11 10:07* | *10/26/11 11:26* | *1* |

**Client Sample ID: SUMP-EXS-4-8**
**Date Collected: 10/20/11 11:40**
**Date Received: 10/20/11 16:30**

**Lab Sample ID: 720-38238-2**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **1.2** | | 0.99 | | mg/Kg | | 10/25/11 10:07 | 10/26/11 11:49 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 10/25/11 10:07 | 10/26/11 11:49 | 1 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.03* | | *0 - 1* | *10/25/11 10:07* | *10/26/11 11:49* | *1* |
| *p-Terphenyl* | *98* | | *38 - 148* | *10/25/11 10:07* | *10/26/11 11:49* | *1* |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

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

**Lab Sample ID: MB 720-101388/1-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Bromomethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chloroethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chloromethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Dibromomethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Dichlorodifluoromethane | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Methylene Chloride | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Naphthalene | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |





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

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

**Lab Sample ID: MB 720-101388/1-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Vinyl acetate | ND | | 50 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Xylenes, Total | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| TBA | ND | | 9.9 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| DIPE | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| TAME | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | 10/21/11 10:18 | 10/21/11 10:40 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *45 - 131* | *10/21/11 10:18* | *10/21/11 10:40* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *60 - 140* | *10/21/11 10:18* | *10/21/11 10:40* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* | *10/21/11 10:18* | *10/21/11 10:40* | *1* |

**Lab Sample ID: LCS 720-101388/2-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.9 | 51.1 | | ug/Kg | | 102 | 71 - 144 |
| Acetone | 250 | 303 | | ug/Kg | | 121 | 30 - 162 |
| Benzene | 49.9 | 49.1 | | ug/Kg | | 98 | 77 - 113 |
| Dichlorobromomethane | 49.9 | 48.5 | | ug/Kg | | 97 | 86 - 131 |
| Bromobenzene | 49.9 | 48.1 | | ug/Kg | | 96 | 88 - 120 |
| Chlorobromomethane | 49.9 | 45.7 | | ug/Kg | | 92 | 81 - 116 |
| Bromoform | 49.9 | 52.9 | | ug/Kg | | 106 | 59 - 158 |
| Bromomethane | 49.9 | 49.7 | | ug/Kg | | 100 | 59 - 132 |
| 2-Butanone (MEK) | 250 | 295 | | ug/Kg | | 118 | 61 - 150 |
| n-Butylbenzene | 49.9 | 54.5 | | ug/Kg | | 109 | 80 - 142 |
| sec-Butylbenzene | 49.9 | 52.3 | | ug/Kg | | 105 | 85 - 136 |
| tert-Butylbenzene | 49.9 | 52.9 | | ug/Kg | | 106 | 71 - 130 |
| Carbon disulfide | 49.9 | 49.9 | | ug/Kg | | 100 | 60 - 136 |
| Carbon tetrachloride | 49.9 | 50.5 | | ug/Kg | | 101 | 81 - 138 |
| Chloroethane | 49.9 | 49.3 | | ug/Kg | | 99 | 65 - 126 |
| Chloroform | 49.9 | 47.1 | | ug/Kg | | 94 | 77 - 127 |

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

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

**Lab Sample ID: LCS 720-101388/2-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chloromethane | 49.9 | 51.3 | | ug/Kg | | 103 | 60 - 149 |
| 2-Chlorotoluene | 49.9 | 51.5 | | ug/Kg | | 103 | 80 - 138 |
| 4-Chlorotoluene | 49.9 | 52.1 | | ug/Kg | | 104 | 79 - 136 |
| Chlorodibromomethane | 49.9 | 48.9 | | ug/Kg | | 98 | 75 - 146 |
| 1,2-Dichlorobenzene | 49.9 | 46.9 | | ug/Kg | | 94 | 84 - 130 |
| 1,3-Dichlorobenzene | 49.9 | 48.1 | | ug/Kg | | 96 | 84 - 131 |
| 1,4-Dichlorobenzene | 49.9 | 48.1 | | ug/Kg | | 96 | 85 - 125 |
| 1,3-Dichloropropane | 49.9 | 49.5 | | ug/Kg | | 99 | 79 - 140 |
| 1,1-Dichloropropene | 49.9 | 52.7 | | ug/Kg | | 106 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 49.9 | 55.5 | | ug/Kg | | 111 | 68 - 145 |
| Ethylene Dibromide | 49.9 | 49.9 | | ug/Kg | | 100 | 79 - 140 |
| Dibromomethane | 49.9 | 47.7 | | ug/Kg | | 96 | 80 - 139 |
| Dichlorodifluoromethane | 49.9 | 53.3 | | ug/Kg | | 107 | 37 - 158 |
| 1,1-Dichloroethane | 49.9 | 48.7 | | ug/Kg | | 98 | 76 - 119 |
| 1,2-Dichloroethane | 49.9 | 48.5 | | ug/Kg | | 97 | 72 - 130 |
| 1,1-Dichloroethene | 49.9 | 47.5 | | ug/Kg | | 95 | 68 - 119 |
| cis-1,2-Dichloroethene | 49.9 | 49.3 | | ug/Kg | | 99 | 87 - 138 |
| trans-1,2-Dichloroethene | 49.9 | 47.5 | | ug/Kg | | 95 | 67 - 108 |
| 1,2-Dichloropropane | 49.9 | 48.1 | | ug/Kg | | 96 | 73 - 127 |
| cis-1,3-Dichloropropene | 49.9 | 51.5 | | ug/Kg | | 103 | 68 - 147 |
| trans-1,3-Dichloropropene | 49.9 | 52.7 | | ug/Kg | | 106 | 84 - 136 |
| Ethylbenzene | 49.9 | 50.9 | | ug/Kg | | 102 | 80 - 137 |
| Hexachlorobutadiene | 49.9 | 47.1 | | ug/Kg | | 94 | 72 - 132 |
| 2-Hexanone | 250 | 309 | | ug/Kg | | 124 | 60 - 161 |
| Isopropylbenzene | 49.9 | 53.1 | | ug/Kg | | 106 | 88 - 128 |
| 4-Isopropyltoluene | 49.9 | 51.9 | | ug/Kg | | 104 | 85 - 133 |
| Methylene Chloride | 49.9 | 47.1 | | ug/Kg | | 94 | 72 - 134 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 301 | | ug/Kg | | 121 | 69 - 160 |
| Naphthalene | 49.9 | 54.3 | | ug/Kg | | 109 | 70 - 147 |
| N-Propylbenzene | 49.9 | 54.3 | | ug/Kg | | 109 | 72 - 125 |
| Styrene | 49.9 | 54.3 | | ug/Kg | | 109 | 89 - 126 |
| 1,1,1,2-Tetrachloroethane | 49.9 | 48.9 | | ug/Kg | | 98 | 90 - 130 |
| 1,1,2,2-Tetrachloroethane | 49.9 | 53.5 | | ug/Kg | | 107 | 82 - 146 |
| Tetrachloroethene | 49.9 | 48.1 | | ug/Kg | | 96 | 78 - 132 |
| Toluene | 49.9 | 50.1 | | ug/Kg | | 100 | 80 - 114 |
| 1,2,3-Trichlorobenzene | 49.9 | 47.3 | | ug/Kg | | 95 | 82 - 135 |
| 1,2,4-Trichlorobenzene | 49.9 | 50.5 | | ug/Kg | | 101 | 70 - 131 |
| 1,1,1-Trichloroethane | 49.9 | 49.3 | | ug/Kg | | 99 | 80 - 127 |
| 1,1,2-Trichloroethane | 49.9 | 49.1 | | ug/Kg | | 98 | 82 - 125 |
| Trichloroethene | 49.9 | 48.3 | | ug/Kg | | 97 | 81 - 133 |
| Trichlorofluoromethane | 49.9 | 49.7 | | ug/Kg | | 100 | 71 - 139 |
| 1,2,3-Trichloropropane | 49.9 | 52.5 | | ug/Kg | | 105 | 76 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.9 | 48.5 | | ug/Kg | | 97 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 49.9 | 53.5 | | ug/Kg | | 107 | 84 - 130 |
| 1,3,5-Trimethylbenzene | 49.9 | 53.7 | | ug/Kg | | 108 | 82 - 131 |
| Vinyl acetate | 49.9 | 61.7 | | ug/Kg | | 124 | 38 - 176 |
| Vinyl chloride | 49.9 | 50.1 | | ug/Kg | | 100 | 58 - 125 |
| m-Xylene & p-Xylene | 99.8 | 104 | | ug/Kg | | 104 | 79 - 146 |
| o-Xylene | 49.9 | 52.1 | | ug/Kg | | 104 | 84 - 140 |

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

**Lab Sample ID: LCS 720-101388/2-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,2-Dichloropropane | 49.9 | 59.9 | | ug/Kg | | 120 | 73 - 162 |
| TBA | 998 | 1000 | | ug/Kg | | 100 | 63 - 119 |
| DIPE | 49.9 | 50.3 | | ug/Kg | | 101 | 83 - 131 |
| TAME | 49.9 | 53.3 | | ug/Kg | | 107 | 74 - 140 |
| Ethyl-t-butyl ether (ETBE) | 49.9 | 50.9 | | ug/Kg | | 102 | 76 - 129 |
| Chlorobenzene | 49.9 | 49.1 | | ug/Kg | | 98 | 82 - 114 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *105* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *101* | | *58 - 140* |

**Lab Sample ID: LCS 720-101388/4-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 994 | 836 | | ug/Kg | | 84 | 61 - 128 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *107* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *102* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101388/3-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.6 | 51.0 | | ug/Kg | | 103 | 71 - 144 | 0 | 20 |
| Acetone | 248 | 244 | | ug/Kg | | 98 | 30 - 162 | 22 | 30 |
| Benzene | 49.6 | 49.8 | | ug/Kg | | 100 | 77 - 113 | 1 | 20 |
| Dichlorobromomethane | 49.6 | 49.6 | | ug/Kg | | 100 | 86 - 131 | 2 | 20 |
| Bromobenzene | 49.6 | 48.4 | | ug/Kg | | 98 | 88 - 120 | 1 | 20 |
| Chlorobromomethane | 49.6 | 46.2 | | ug/Kg | | 93 | 81 - 116 | 1 | 20 |
| Bromoform | 49.6 | 49.8 | | ug/Kg | | 100 | 59 - 158 | 6 | 20 |
| Bromomethane | 49.6 | 49.8 | | ug/Kg | | 100 | 59 - 132 | 0 | 20 |
| 2-Butanone (MEK) | 248 | 246 | | ug/Kg | | 99 | 61 - 150 | 18 | 20 |
| n-Butylbenzene | 49.6 | 53.4 | | ug/Kg | | 108 | 80 - 142 | 2 | 20 |
| sec-Butylbenzene | 49.6 | 51.6 | | ug/Kg | | 104 | 85 - 136 | 1 | 20 |
| tert-Butylbenzene | 49.6 | 52.6 | | ug/Kg | | 106 | 71 - 130 | 1 | 20 |
| Carbon disulfide | 49.6 | 48.8 | | ug/Kg | | 98 | 60 - 136 | 2 | 20 |
| Carbon tetrachloride | 49.6 | 50.0 | | ug/Kg | | 101 | 81 - 138 | 1 | 20 |
| Chloroethane | 49.6 | 49.0 | | ug/Kg | | 99 | 65 - 126 | 1 | 20 |
| Chloroform | 49.6 | 48.0 | | ug/Kg | | 97 | 77 - 127 | 2 | 20 |
| Chloromethane | 49.6 | 51.2 | | ug/Kg | | 103 | 60 - 149 | 0 | 20 |
| 2-Chlorotoluene | 49.6 | 51.2 | | ug/Kg | | 103 | 80 - 138 | 1 | 20 |
| 4-Chlorotoluene | 49.6 | 51.8 | | ug/Kg | | 104 | 79 - 136 | 1 | 20 |

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

**Lab Sample ID: LCSD 720-101388/3-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chlorodibromomethane | 49.6 | 49.4 | | ug/Kg | | 100 | 75 - 146 | 1 | 20 |
| 1,2-Dichlorobenzene | 49.6 | 47.2 | | ug/Kg | | 95 | 84 - 130 | 1 | 20 |
| 1,3-Dichlorobenzene | 49.6 | 48.6 | | ug/Kg | | 98 | 84 - 131 | 1 | 20 |
| 1,4-Dichlorobenzene | 49.6 | 47.6 | | ug/Kg | | 96 | 85 - 125 | 1 | 20 |
| 1,3-Dichloropropane | 49.6 | 49.0 | | ug/Kg | | 99 | 79 - 140 | 1 | 20 |
| 1,1-Dichloropropene | 49.6 | 52.2 | | ug/Kg | | 105 | 70 - 130 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 49.6 | 46.4 | | ug/Kg | | 94 | 68 - 145 | 18 | 20 |
| Ethylene Dibromide | 49.6 | 48.2 | | ug/Kg | | 97 | 79 - 140 | 3 | 20 |
| Dibromomethane | 49.6 | 47.4 | | ug/Kg | | 96 | 80 - 139 | 1 | 20 |
| Dichlorodifluoromethane | 49.6 | 52.6 | | ug/Kg | | 106 | 37 - 158 | 1 | 20 |
| 1,1-Dichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 76 - 119 | 1 | 20 |
| 1,2-Dichloroethane | 49.6 | 48.8 | | ug/Kg | | 98 | 72 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 49.6 | 47.4 | | ug/Kg | | 96 | 68 - 119 | 0 | 20 |
| cis-1,2-Dichloroethene | 49.6 | 50.2 | | ug/Kg | | 101 | 87 - 138 | 2 | 20 |
| trans-1,2-Dichloroethene | 49.6 | 47.6 | | ug/Kg | | 96 | 67 - 108 | 0 | 20 |
| 1,2-Dichloropropane | 49.6 | 50.0 | | ug/Kg | | 101 | 73 - 127 | 4 | 20 |
| cis-1,3-Dichloropropene | 49.6 | 52.4 | | ug/Kg | | 106 | 68 - 147 | 2 | 20 |
| trans-1,3-Dichloropropene | 49.6 | 53.0 | | ug/Kg | | 107 | 84 - 136 | 1 | 20 |
| Ethylbenzene | 49.6 | 50.6 | | ug/Kg | | 102 | 80 - 137 | 1 | 20 |
| Hexachlorobutadiene | 49.6 | 47.0 | | ug/Kg | | 95 | 72 - 132 | 0 | 20 |
| 2-Hexanone | 248 | 260 | | ug/Kg | | 105 | 60 - 161 | 17 | 20 |
| Isopropylbenzene | 49.6 | 53.2 | | ug/Kg | | 107 | 88 - 128 | 0 | 20 |
| 4-Isopropyltoluene | 49.6 | 51.6 | | ug/Kg | | 104 | 85 - 133 | 1 | 20 |
| Methylene Chloride | 49.6 | 48.2 | | ug/Kg | | 97 | 72 - 134 | 2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 248 | 262 | | ug/Kg | | 105 | 69 - 160 | 14 | 20 |
| Naphthalene | 49.6 | 50.4 | | ug/Kg | | 102 | 70 - 147 | 7 | 20 |
| N-Propylbenzene | 49.6 | 53.4 | | ug/Kg | | 108 | 72 - 125 | 2 | 20 |
| Styrene | 49.6 | 54.6 | | ug/Kg | | 110 | 89 - 126 | 0 | 20 |
| 1,1,1,2-Tetrachloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 90 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 49.6 | 48.0 | | ug/Kg | | 97 | 82 - 146 | 11 | 20 |
| Tetrachloroethene | 49.6 | 48.0 | | ug/Kg | | 97 | 78 - 132 | 0 | 20 |
| Toluene | 49.6 | 50.2 | | ug/Kg | | 101 | 80 - 114 | 0 | 20 |
| 1,2,3-Trichlorobenzene | 49.6 | 47.4 | | ug/Kg | | 96 | 82 - 135 | 0 | 20 |
| 1,2,4-Trichlorobenzene | 49.6 | 50.8 | | ug/Kg | | 102 | 70 - 131 | 1 | 20 |
| 1,1,1-Trichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 80 - 127 | 0 | 20 |
| 1,1,2-Trichloroethane | 49.6 | 48.2 | | ug/Kg | | 97 | 82 - 125 | 2 | 20 |
| Trichloroethene | 49.6 | 48.4 | | ug/Kg | | 98 | 81 - 133 | 0 | 20 |
| Trichlorofluoromethane | 49.6 | 49.2 | | ug/Kg | | 99 | 71 - 139 | 1 | 20 |
| 1,2,3-Trichloropropane | 49.6 | 46.6 | | ug/Kg | | 94 | 76 - 146 | 12 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.6 | 48.2 | | ug/Kg | | 97 | 70 - 130 | 1 | 20 |
| 1,2,4-Trimethylbenzene | 49.6 | 54.0 | | ug/Kg | | 109 | 84 - 130 | 1 | 20 |
| 1,3,5-Trimethylbenzene | 49.6 | 53.8 | | ug/Kg | | 108 | 82 - 131 | 0 | 20 |
| Vinyl acetate | 49.6 | 58.3 | | ug/Kg | | 118 | 38 - 176 | 6 | 20 |
| Vinyl chloride | 49.6 | 48.2 | | ug/Kg | | 97 | 58 - 125 | 4 | 20 |
| m-Xylene & p-Xylene | 99.2 | 104 | | ug/Kg | | 105 | 79 - 146 | 0 | 20 |
| o-Xylene | 49.6 | 52.2 | | ug/Kg | | 105 | 84 - 140 | 0 | 20 |
| 2,2-Dichloropropane | 49.6 | 55.8 | | ug/Kg | | 112 | 73 - 162 | 7 | 20 |
| TBA | 992 | 992 | | ug/Kg | | 100 | 63 - 119 | 1 | 20 |
| DIPE | 49.6 | 52.6 | | ug/Kg | | 106 | 83 - 131 | 4 | 20 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

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

**Lab Sample ID: LCSD 720-101388/3-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| TAME | 49.6 | 54.8 | | ug/Kg | | 110 | 74 - 140 | 3 | 20 |
| Ethyl-t-butyl ether (ETBE) | 49.6 | 53.0 | | ug/Kg | | 107 | 76 - 129 | 4 | 20 |
| Chlorobenzene | 49.6 | 49.2 | | ug/Kg | | 99 | 82 - 114 | 0 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *106* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *103* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101388/5-A**
**Matrix: Solid**
**Analysis Batch: 101362**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101388**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 998 | 853 | | ug/Kg | | 85 | 61 - 128 | 2 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *105* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *102* | | *58 - 140* |

**Lab Sample ID: MB 720-101575/1-A**
**Matrix: Solid**
**Analysis Batch: 101542**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101575**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |
| Chlorobenzene | ND | | 500 | | ug/Kg | | 10/22/11 20:33 | 10/25/11 02:38 | 100 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *66 - 148* | *10/22/11 20:33* | *10/25/11 02:38* | *100* |
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 137* | *10/22/11 20:33* | *10/25/11 02:38* | *100* |
| *Toluene-d8 (Surr)* | *98* | | *65 - 141* | *10/22/11 20:33* | *10/25/11 02:38* | *100* |

**Lab Sample ID: LCS 720-101575/2-A**
**Matrix: Solid**
**Analysis Batch: 101542**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101575**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5000 | 5160 | | ug/Kg | | 103 | 67 - 126 |
| Chlorobenzene | 5000 | 5100 | | ug/Kg | | 102 | 81 - 128 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *66 - 148* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *62 - 137* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

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

**Lab Sample ID: LCSD 720-101575/3-A**
**Matrix: Solid**
**Analysis Batch: 101542**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101575**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 5000 | 5140 | | ug/Kg | | 103 | 67 - 126 | 0 | 20 |
| Chlorobenzene | 5000 | 5140 | | ug/Kg | | 103 | 81 - 128 | 1 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *66 - 148* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *62 - 137* |
| *Toluene-d8 (Surr)* | *99* | | *65 - 141* |

**Lab Sample ID: MB 720-101600/1-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromomethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloroethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloromethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dibromomethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dichlorodifluoromethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

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

**Lab Sample ID: MB 720-101600/1-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Methylene Chloride | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Naphthalene | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Vinyl acetate | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Xylenes, Total | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| TBA | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| DIPE | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| TAME | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethyl-t-butyl ether (ETBE) | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *45 - 131* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *58 - 140* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |

**Lab Sample ID: LCS 720-101600/2-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.6 | 51.4 | | ug/Kg | | 104 | 71 - 144 |
| Acetone | 248 | 175 | | ug/Kg | | 70 | 30 - 162 |
| Benzene | 49.6 | 46.0 | | ug/Kg | | 93 | 77 - 113 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1



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

**Lab Sample ID: LCS 720-101600/2-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorobromomethane | 49.6 | 52.6 | | ug/Kg | | 106 | 86 - 131 |
| Bromobenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 88 - 120 |
| Chlorobromomethane | 49.6 | 48.0 | | ug/Kg | | 97 | 81 - 116 |
| Bromoform | 49.6 | 55.4 | | ug/Kg | | 112 | 59 - 158 |
| Bromomethane | 49.6 | 43.7 | | ug/Kg | | 88 | 59 - 132 |
| 2-Butanone (MEK) | 248 | 227 | | ug/Kg | | 92 | 61 - 150 |
| n-Butylbenzene | 49.6 | 49.2 | | ug/Kg | | 99 | 80 - 142 |
| sec-Butylbenzene | 49.6 | 47.2 | | ug/Kg | | 95 | 85 - 136 |
| tert-Butylbenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 71 - 130 |
| Carbon disulfide | 49.6 | 41.9 | | ug/Kg | | 84 | 60 - 136 |
| Carbon tetrachloride | 49.6 | 50.0 | | ug/Kg | | 101 | 81 - 138 |
| Chloroethane | 49.6 | 46.6 | | ug/Kg | | 94 | 65 - 126 |
| Chloroform | 49.6 | 47.4 | | ug/Kg | | 96 | 77 - 127 |
| Chloromethane | 49.6 | 40.9 | | ug/Kg | | 82 | 60 - 149 |
| 2-Chlorotoluene | 49.6 | 48.8 | | ug/Kg | | 98 | 80 - 138 |
| 4-Chlorotoluene | 49.6 | 48.2 | | ug/Kg | | 97 | 79 - 136 |
| Chlorodibromomethane | 49.6 | 53.4 | | ug/Kg | | 108 | 75 - 146 |
| 1,2-Dichlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 84 - 130 |
| 1,3-Dichlorobenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 84 - 131 |
| 1,4-Dichlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 85 - 125 |
| 1,3-Dichloropropane | 49.6 | 53.0 | | ug/Kg | | 107 | 79 - 140 |
| 1,1-Dichloropropene | 49.6 | 47.6 | | ug/Kg | | 96 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 49.6 | 56.0 | | ug/Kg | | 113 | 68 - 145 |
| Ethylene Dibromide | 49.6 | 55.0 | | ug/Kg | | 111 | 79 - 140 |
| Dibromomethane | 49.6 | 51.4 | | ug/Kg | | 104 | 80 - 139 |
| Dichlorodifluoromethane | 49.6 | 34.5 | | ug/Kg | | 70 | 37 - 158 |
| 1,1-Dichloroethane | 49.6 | 46.8 | | ug/Kg | | 94 | 76 - 119 |
| 1,2-Dichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 72 - 130 |
| 1,1-Dichloroethene | 49.6 | 41.1 | | ug/Kg | | 83 | 68 - 119 |
| cis-1,2-Dichloroethene | 49.6 | 53.4 | | ug/Kg | | 108 | 87 - 138 |
| trans-1,2-Dichloroethene | 49.6 | 38.5 | | ug/Kg | | 78 | 67 - 108 |
| 1,2-Dichloropropane | 49.6 | 47.0 | | ug/Kg | | 95 | 73 - 127 |
| cis-1,3-Dichloropropene | 49.6 | 49.6 | | ug/Kg | | 100 | 68 - 147 |
| trans-1,3-Dichloropropene | 49.6 | 52.8 | | ug/Kg | | 106 | 84 - 136 |
| Ethylbenzene | 49.6 | 48.2 | | ug/Kg | | 97 | 80 - 137 |
| Hexachlorobutadiene | 49.6 | 48.4 | | ug/Kg | | 98 | 72 - 132 |
| 2-Hexanone | 248 | 260 | | ug/Kg | | 105 | 60 - 161 |
| Isopropylbenzene | 49.6 | 51.0 | | ug/Kg | | 103 | 88 - 128 |
| 4-Isopropyltoluene | 49.6 | 48.6 | | ug/Kg | | 98 | 85 - 133 |
| Methylene Chloride | 49.6 | 46.0 | | ug/Kg | | 93 | 72 - 134 |
| 4-Methyl-2-pentanone (MIBK) | 248 | 270 | | ug/Kg | | 109 | 69 - 160 |
| Naphthalene | 49.6 | 52.4 | | ug/Kg | | 106 | 70 - 147 |
| N-Propylbenzene | 49.6 | 46.2 | | ug/Kg | | 93 | 72 - 125 |
| Styrene | 49.6 | 51.8 | | ug/Kg | | 104 | 89 - 126 |
| 1,1,1,2-Tetrachloroethane | 49.6 | 52.6 | | ug/Kg | | 106 | 90 - 130 |
| 1,1,2,2-Tetrachloroethane | 49.6 | 52.6 | | ug/Kg | | 106 | 82 - 146 |
| Tetrachloroethene | 49.6 | 47.6 | | ug/Kg | | 96 | 78 - 132 |
| Toluene | 49.6 | 46.4 | | ug/Kg | | 94 | 80 - 114 |
| 1,2,3-Trichlorobenzene | 49.6 | 50.6 | | ug/Kg | | 102 | 82 - 135 |
| 1,2,4-Trichlorobenzene | 49.6 | 50.0 | | ug/Kg | | 101 | 70 - 131 |

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38238-1
Project/Site: Crown Chevrolet



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

**Lab Sample ID: LCS 720-101600/2-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 49.6 | 48.4 | | ug/Kg | | 98 | 80 - 127 |
| 1,1,2-Trichloroethane | 49.6 | 51.2 | | ug/Kg | | 103 | 82 - 125 |
| Trichloroethene | 49.6 | 45.2 | | ug/Kg | | 91 | 81 - 133 |
| Trichlorofluoromethane | 49.6 | 48.0 | | ug/Kg | | 97 | 71 - 139 |
| 1,2,3-Trichloropropane | 49.6 | 55.4 | | ug/Kg | | 112 | 76 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.6 | 47.4 | | ug/Kg | | 96 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 49.6 | 48.6 | | ug/Kg | | 98 | 84 - 130 |
| 1,3,5-Trimethylbenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 82 - 131 |
| Vinyl acetate | 49.6 | 55.0 | | ug/Kg | | 111 | 38 - 176 |
| Vinyl chloride | 49.6 | 41.1 | | ug/Kg | | 83 | 58 - 125 |
| m-Xylene & p-Xylene | 99.2 | 102 | | ug/Kg | | 103 | 79 - 146 |
| o-Xylene | 49.6 | 48.2 | | ug/Kg | | 97 | 84 - 140 |
| 2,2-Dichloropropane | 49.6 | 50.6 | | ug/Kg | | 102 | 73 - 162 |
| TBA | 992 | 994 | | ug/Kg | | 100 | 63 - 119 |
| DIPE | 49.6 | 49.8 | | ug/Kg | | 100 | 83 - 131 |
| TAME | 49.6 | 50.6 | | ug/Kg | | 102 | 74 - 140 |
| Ethyl-t-butyl ether (ETBE) | 49.6 | 46.8 | | ug/Kg | | 94 | 76 - 129 |
| Chlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 82 - 114 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* |

**Lab Sample ID: LCS 720-101600/4-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 994 | 936 | | ug/Kg | | 94 | 61 - 128 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101600/3-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.8 | 50.0 | | ug/Kg | | 100 | 71 - 144 | 3 | 20 |
| Acetone | 249 | 171 | | ug/Kg | | 69 | 30 - 162 | 2 | 30 |
| Benzene | 49.8 | 46.4 | | ug/Kg | | 93 | 77 - 113 | 1 | 20 |
| Dichlorobromomethane | 49.8 | 51.0 | | ug/Kg | | 102 | 86 - 131 | 3 | 20 |
| Bromobenzene | 49.8 | 49.8 | | ug/Kg | | 100 | 88 - 120 | 4 | 20 |
| Chlorobromomethane | 49.8 | 48.0 | | ug/Kg | | 96 | 81 - 116 | 0 | 20 |
| Bromoform | 49.8 | 56.0 | | ug/Kg | | 112 | 59 - 158 | 1 | 20 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

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

**Lab Sample ID: LCSD 720-101600/3-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | 49.8 | 47.0 | | ug/Kg | | 94 | 59 - 132 | 7 | 20 |
| 2-Butanone (MEK) | 249 | 233 | | ug/Kg | | 93 | 61 - 150 | 2 | 20 |
| n-Butylbenzene | 49.8 | 52.2 | | ug/Kg | | 105 | 80 - 142 | 6 | 20 |
| sec-Butylbenzene | 49.8 | 50.4 | | ug/Kg | | 101 | 85 - 136 | 7 | 20 |
| tert-Butylbenzene | 49.8 | 51.2 | | ug/Kg | | 103 | 71 - 130 | 7 | 20 |
| Carbon disulfide | 49.8 | 42.8 | | ug/Kg | | 86 | 60 - 136 | 2 | 20 |
| Carbon tetrachloride | 49.8 | 49.8 | | ug/Kg | | 100 | 81 - 138 | 0 | 20 |
| Chloroethane | 49.8 | 48.4 | | ug/Kg | | 97 | 65 - 126 | 4 | 20 |
| Chloroform | 49.8 | 47.8 | | ug/Kg | | 96 | 77 - 127 | 1 | 20 |
| Chloromethane | 49.8 | 42.2 | | ug/Kg | | 85 | 60 - 149 | 3 | 20 |
| 2-Chlorotoluene | 49.8 | 51.2 | | ug/Kg | | 103 | 80 - 138 | 5 | 20 |
| 4-Chlorotoluene | 49.8 | 51.0 | | ug/Kg | | 102 | 79 - 136 | 6 | 20 |
| Chlorodibromomethane | 49.8 | 53.0 | | ug/Kg | | 106 | 75 - 146 | 1 | 20 |
| 1,2-Dichlorobenzene | 49.8 | 49.8 | | ug/Kg | | 100 | 84 - 130 | 4 | 20 |
| 1,3-Dichlorobenzene | 49.8 | 50.0 | | ug/Kg | | 100 | 84 - 131 | 4 | 20 |
| 1,4-Dichlorobenzene | 49.8 | 51.4 | | ug/Kg | | 103 | 85 - 125 | 7 | 20 |
| 1,3-Dichloropropane | 49.8 | 53.0 | | ug/Kg | | 106 | 79 - 140 | 0 | 20 |
| 1,1-Dichloropropene | 49.8 | 47.8 | | ug/Kg | | 96 | 70 - 130 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | 49.8 | 58.6 | | ug/Kg | | 118 | 68 - 145 | 5 | 20 |
| Ethylene Dibromide | 49.8 | 54.2 | | ug/Kg | | 109 | 79 - 140 | 1 | 20 |
| Dibromomethane | 49.8 | 51.6 | | ug/Kg | | 104 | 80 - 139 | 0 | 20 |
| Dichlorodifluoromethane | 49.8 | 36.5 | | ug/Kg | | 73 | 37 - 158 | 5 | 20 |
| 1,1-Dichloroethane | 49.8 | 47.6 | | ug/Kg | | 96 | 76 - 119 | 2 | 20 |
| 1,2-Dichloroethane | 49.8 | 49.0 | | ug/Kg | | 98 | 72 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 49.8 | 42.2 | | ug/Kg | | 85 | 68 - 119 | 3 | 20 |
| cis-1,2-Dichloroethene | 49.8 | 53.8 | | ug/Kg | | 108 | 87 - 138 | 1 | 20 |
| trans-1,2-Dichloroethene | 49.8 | 39.8 | | ug/Kg | | 80 | 67 - 108 | 3 | 20 |
| 1,2-Dichloropropane | 49.8 | 47.6 | | ug/Kg | | 96 | 73 - 127 | 1 | 20 |
| cis-1,3-Dichloropropene | 49.8 | 49.6 | | ug/Kg | | 100 | 68 - 147 | 0 | 20 |
| trans-1,3-Dichloropropene | 49.8 | 52.6 | | ug/Kg | | 106 | 84 - 136 | 0 | 20 |
| Ethylbenzene | 49.8 | 49.2 | | ug/Kg | | 99 | 80 - 137 | 2 | 20 |
| Hexachlorobutadiene | 49.8 | 52.2 | | ug/Kg | | 105 | 72 - 132 | 8 | 20 |
| 2-Hexanone | 249 | 259 | | ug/Kg | | 104 | 60 - 161 | 0 | 20 |
| Isopropylbenzene | 49.8 | 52.0 | | ug/Kg | | 104 | 88 - 128 | 2 | 20 |
| 4-Isopropyltoluene | 49.8 | 51.4 | | ug/Kg | | 103 | 85 - 133 | 6 | 20 |
| Methylene Chloride | 49.8 | 46.2 | | ug/Kg | | 93 | 72 - 134 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 249 | 267 | | ug/Kg | | 107 | 69 - 160 | 1 | 20 |
| Naphthalene | 49.8 | 54.0 | | ug/Kg | | 108 | 70 - 147 | 3 | 20 |
| N-Propylbenzene | 49.8 | 48.2 | | ug/Kg | | 97 | 72 - 125 | 4 | 20 |
| Styrene | 49.8 | 52.8 | | ug/Kg | | 106 | 89 - 126 | 2 | 20 |
| 1,1,1,2-Tetrachloroethane | 49.8 | 53.2 | | ug/Kg | | 107 | 90 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 49.8 | 53.2 | | ug/Kg | | 107 | 82 - 146 | 1 | 20 |
| Tetrachloroethene | 49.8 | 48.2 | | ug/Kg | | 97 | 78 - 132 | 1 | 20 |
| Toluene | 49.8 | 47.8 | | ug/Kg | | 96 | 80 - 114 | 3 | 20 |
| 1,2,3-Trichlorobenzene | 49.8 | 52.2 | | ug/Kg | | 105 | 82 - 135 | 3 | 20 |
| 1,2,4-Trichlorobenzene | 49.8 | 51.8 | | ug/Kg | | 104 | 70 - 131 | 4 | 20 |
| 1,1,1-Trichloroethane | 49.8 | 48.2 | | ug/Kg | | 97 | 80 - 127 | 0 | 20 |
| 1,1,2-Trichloroethane | 49.8 | 51.0 | | ug/Kg | | 102 | 82 - 125 | 0 | 20 |
| Trichloroethene | 49.8 | 46.6 | | ug/Kg | | 94 | 81 - 133 | 3 | 20 |
| Trichlorofluoromethane | 49.8 | 49.8 | | ug/Kg | | 100 | 71 - 139 | 4 | 20 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

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

**Lab Sample ID: LCSD 720-101600/3-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 49.8 | 55.6 | | ug/Kg | | 112 | 76 - 146 | 0 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.8 | 47.2 | | ug/Kg | | 95 | 70 - 130 | 0 | 20 |
| 1,2,4-Trimethylbenzene | 49.8 | 51.0 | | ug/Kg | | 102 | 84 - 130 | 5 | 20 |
| 1,3,5-Trimethylbenzene | 49.8 | 50.2 | | ug/Kg | | 101 | 82 - 131 | 5 | 20 |
| Vinyl acetate | 49.8 | 54.8 | | ug/Kg | | 110 | 38 - 176 | 0 | 20 |
| Vinyl chloride | 49.8 | 43.8 | | ug/Kg | | 88 | 58 - 125 | 6 | 20 |
| m-Xylene & p-Xylene | 99.6 | 104 | | ug/Kg | | 105 | 79 - 146 | 3 | 20 |
| o-Xylene | 49.8 | 49.2 | | ug/Kg | | 99 | 84 - 140 | 2 | 20 |
| 2,2-Dichloropropane | 49.8 | 51.2 | | ug/Kg | | 103 | 73 - 162 | 1 | 20 |
| TBA | 996 | 1020 | | ug/Kg | | 102 | 63 - 119 | 2 | 20 |
| DIPE | 49.8 | 50.0 | | ug/Kg | | 100 | 83 - 131 | 0 | 20 |
| TAME | 49.8 | 48.4 | | ug/Kg | | 97 | 74 - 140 | 4 | 20 |
| Ethyl-t-butyl ether (ETBE) | 49.8 | 47.0 | | ug/Kg | | 94 | 76 - 129 | 0 | 20 |
| Chlorobenzene | 49.8 | 49.0 | | ug/Kg | | 98 | 82 - 114 | 2 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *97* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101600/5-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 992 | 932 | | ug/Kg | | 94 | 61 - 128 | 0 | 20 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* |

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

**Lab Sample ID: MB 720-101612/1-A**
**Matrix: Solid**
**Analysis Batch: 101588**

**Client Sample ID: Method Blank**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101612**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.99 | | mg/Kg | | 10/25/11 10:07 | 10/25/11 20:58 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 | | mg/Kg | | 10/25/11 10:07 | 10/25/11 20:58 | 1 |

| *Surrogate* | *MB % Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.02* | | *0 - 1* | *10/25/11 10:07* | *10/25/11 20:58* | *1* |
| *p-Terphenyl* | *93* | | *38 - 148* | *10/25/11 10:07* | *10/25/11 20:58* | *1* |

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

**Lab Sample ID: LCS 720-101612/2-A**
**Matrix: Solid**
**Analysis Batch: 101588**

**Client Sample ID: Lab Control Sample**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101612**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.8 | 51.5 | | mg/Kg | | 62 | 50 - 150 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *104* | | *38 - 148* |

**Lab Sample ID: LCSD 720-101612/3-A**
**Matrix: Solid**
**Analysis Batch: 101588**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101612**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.7 | 49.6 | | mg/Kg | | 60 | 50 - 150 | 4 | 35 |

| *Surrogate* | *LCSD % Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *103* | | *38 - 148* |

## GC/MS VOA

### Analysis Batch: 101362

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-2 | SUMP-EXS-4-8 | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCS 720-101388/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCS 720-101388/4-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCSD 720-101388/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| LCSD 720-101388/5-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |
| MB 720-101388/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101388 |

### Prep Batch: 101388

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-2 | SUMP-EXS-4-8 | Total/NA | Solid | 5035 | |
| LCS 720-101388/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 720-101388/4-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101388/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| LCSD 720-101388/5-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101388/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101542

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| 720-38238-2 | SUMP-EXS-4-8 | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| LCS 720-101575/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| LCSD 720-101575/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |
| MB 720-101575/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101575 |

### Prep Batch: 101575

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Total/NA | Solid | 5035 | |
| 720-38238-2 | SUMP-EXS-4-8 | Total/NA | Solid | 5035 | |
| LCS 720-101575/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101575/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101575/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101592

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCS 720-101600/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCS 720-101600/4-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCSD 720-101600/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCSD 720-101600/5-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |

## GC/MS VOA (Continued)

### Analysis Batch: 101592 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 720-101600/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |

### Prep Batch: 101600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Total/NA | Solid | 5035 | |
| LCS 720-101600/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 720-101600/4-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101600/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| LCSD 720-101600/5-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101600/1-A | Method Blank | Total/NA | Solid | 5035 | |

## GC Semi VOA

### Analysis Batch: 101588

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-101612/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 8015B | 101612 |
| LCSD 720-101612/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 8015B | 101612 |
| MB 720-101612/1-A | Method Blank | Silica Gel Cleanup | Solid | 8015B | 101612 |

### Prep Batch: 101612

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Silica Gel Cleanup | Solid | 3546 | |
| 720-38238-2 | SUMP-EXS-4-8 | Silica Gel Cleanup | Solid | 3546 | |
| LCS 720-101612/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 3546 | |
| LCSD 720-101612/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 3546 | |
| MB 720-101612/1-A | Method Blank | Silica Gel Cleanup | Solid | 3546 | |

### Analysis Batch: 101683

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Silica Gel Cleanup | Solid | 8015B | 101612 |
| 720-38238-2 | SUMP-EXS-4-8 | Silica Gel Cleanup | Solid | 8015B | 101612 |

# Lab Chronicle

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

**Client Sample ID: SUMP-EXS-3-8** **Lab Sample ID: 720-38238-1**
**Date Collected: 10/20/11 09:25** **Matrix: Solid**
**Date Received: 10/20/11 16:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101575 | 10/22/11 20:33 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101542 | 10/25/11 06:47 | YB | TAL SF |
| Total/NA | Prep | 5035 | | | 101600 | 10/20/11 17:30 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101592 | 10/25/11 13:52 | LL | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101612 | 10/25/11 10:07 | MP | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | 101683 | 10/26/11 11:26 | DH | TAL SF |

**Client Sample ID: SUMP-EXS-4-8** **Lab Sample ID: 720-38238-2**
**Date Collected: 10/20/11 11:40** **Matrix: Solid**
**Date Received: 10/20/11 16:30**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101388 | 10/20/11 17:30 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101362 | 10/21/11 14:38 | AC | TAL SF |
| Total/NA | Prep | 5035 | | | 101575 | 10/22/11 20:33 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 100 | 101542 | 10/25/11 07:18 | YB | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101612 | 10/25/11 10:07 | MP | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | 101683 | 10/26/11 11:49 | DH | TAL SF |

**Laboratory References:**

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

# Certification Summary

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica San Francisco | California | State Program | 9 | 2496 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary



| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B/CA_LUFTMS | 8260B / CA LUFT MS | SW846 | TAL SF |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SF |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38238-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 720-38238-1 | SUMP-EXS-3-8 | Solid | 10/20/11 09:25 | 10/20/11 16:30 |
| 720-38238-2 | SUMP-EXS-4-8 | Solid | 10/20/11 11:40 | 10/20/11 16:30 |

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

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

# CHAIN OF CUSTODY FORM

13445

amec

11/18/2011

Seq. No. 1035

Lab: Test America

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

720-38238

Samplers: Haely Young

Job Number: OD10160070.00005

Name/Location: Crown Chevrolet Sump Remediation, Dublin CA

Project Manager: Avery Patton

Recorder: Haely Young (Signature Required)

| MATRIX: Water | MATRIX: Soil | MATRIX: Air | # CONTAINERS: Unpres. | H2SO4 | HNO3 | HCL | MeOH | DI Water | SAMPLE NUMBER | DATE: YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | 8260B VOCs | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd, mo (8015) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | 1 | | | | 1 | 2 | Sump-EXS-3-8 | 11 | 10 | 20 | 0925 | | | X | | | X | X |
| | X | | 1 | | | | 1 | 2 | Sump-EXS-4-8 | 11 | 10 | 20 | 1140 | | | X | | | X | X |

Page 30 of 31

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#:

TAT: Standard

Comments: Field Filtered Y/N

## CHAIN OF CUSTODY RECORD

| Signature | Print Name | Company | Date/Time |
|---|---|---|---|
| Relinquished By: Haely Young | Haely Young | AMEC | 10/20/11 @ 1510 |
| Received By: [signature] | T. Stitt | TASF | 10/20/11 1510 |
| Relinquished By: [signature] | T. Stitt | TASF | 10/20/11 1630 |
| Received By: Lizzy Muller | Muller | TestAmerica | 10-20-11 1630 |
| Relinquished By: | | | |
| Received By: | | | |

Method of Shipment: 1.8°c

White - Laboratory Copy Yellow - Project Office Copy Pink - Field or Office Copy

F1008-E

# Login Sample Receipt Checklist

Client: AMEC Geomatrix Inc.

Job Number: 720-38238-1

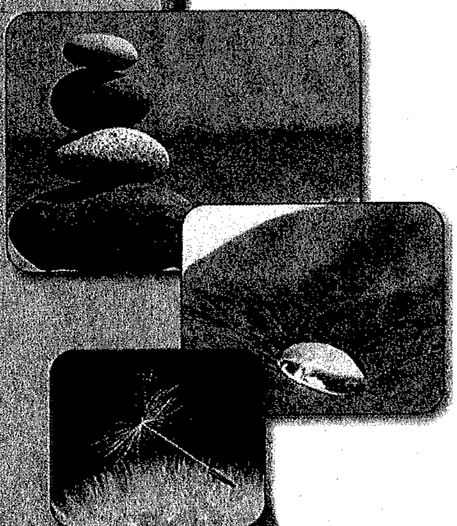
**Login Number: 38238**
**List Number: 1**
**Creator: Mullen, Joan**

**List Source: TestAmerica San Francisco**

| 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 | |
| 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 | 1.8 |
| 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 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. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38313-1
Client Project/Site: Crown Chevrolet

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

Attn: Avery Patton

*Authorized for release by:*
*11/7/2011 3:59:41 PM*

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at:
www.testamericainc.com

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

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

# Table of Contents

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38313-1

## 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 |
| 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) |

# Case Narrative

## Job ID: 720-38313-1

**Laboratory: TestAmerica San Francisco**

**Narrative**

**Job Narrative**
**720-38313-1**

**Comments**
No additional comments.

**Receipt**
All samples were received in good condition within temperature requirements.

**GC/MS VOA**
No other analytical or quality issues were noted.

**GC VOA**
No analytical or quality issues were noted.

**GC Semi VOA**
No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# Detection Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38313-1

## Client Sample ID: FEPIT-EXS-7-6

## Lab Sample ID: 720-38313-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | 5.6 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| 2-Chlorotoluene | 17 | | 4.3 | | ug/Kg | 1 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 1.1 | | 0.99 | | mg/Kg | 1 | | 8015B | Silica Gel Cleai |

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38313-1
Project/Site: Crown Chevrolet

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

**Client Sample ID: FEPIT-EXS-7-6** **Lab Sample ID: 720-38313-1**
**Date Collected: 10/25/11 12:10** **Matrix: Solid**
**Date Received: 10/25/11 16:50**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Acetone | ND | | 43 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Benzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Dichlorobromomethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Bromobenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Chlorobromomethane | ND | | 17 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Bromoform | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Bromomethane | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 2-Butanone (MEK) | ND | | 43 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| n-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| sec-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| tert-Butylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Carbon disulfide | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Carbon tetrachloride | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| **Chlorobenzene** | **5.6** | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Chloroethane | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Chloroform | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Chloromethane | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| **2-Chlorotoluene** | **17** | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 4-Chlorotoluene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Chlorodibromomethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,3-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Ethylene Dibromide | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Dibromomethane | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Dichlorodifluoromethane | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1-Dichloroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,2-Dichloroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,2-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Ethylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Hexachlorobutadiene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 2-Hexanone | ND | | 43 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Isopropylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 4-Isopropyltoluene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Methylene Chloride | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 43 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Naphthalene | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| N-Propylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Styrene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Tetrachloroethene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Toluene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |

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

**Client Sample ID: FEPIT-EXS-7-6**
**Date Collected: 10/25/11 12:10**
**Date Received: 10/25/11 16:50**

**Lab Sample ID: 720-38313-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,3-Trichlorobenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Trichloroethene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Trichlorofluoromethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Vinyl acetate | ND | | 43 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Vinyl chloride | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Xylenes, Total | ND | | 8.6 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| 2,2-Dichloropropane | ND | | 4.3 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 220 | | ug/Kg | | 10/25/11 18:00 | 10/25/11 18:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *83* | | *45 - 131* | *10/25/11 18:00* | *10/25/11 18:34* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *60 - 140* | *10/25/11 18:00* | *10/25/11 18:34* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* | *10/25/11 18:00* | *10/25/11 18:34* | *1* |

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

**Client Sample ID: FEPIT-EXS-7-6**
**Date Collected: 10/25/11 12:10**
**Date Received: 10/25/11 16:50**

**Lab Sample ID: 720-38313-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/27/11 19:00 | 10/27/11 23:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/27/11 19:00 | 10/27/11 23:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.9 | | ug/Kg | | 10/27/11 19:00 | 10/27/11 23:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *91* | | *45 - 131* | *10/27/11 19:00* | *10/27/11 23:54* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *60 - 140* | *10/27/11 19:00* | *10/27/11 23:54* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* | *10/27/11 19:00* | *10/27/11 23:54* | *1* |

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

**Client Sample ID: FEPIT-EXS-7-6**
**Date Collected: 10/25/11 12:10**
**Date Received: 10/25/11 16:50**

**Lab Sample ID: 720-38313-1**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **1.1** | | 0.99 | | mg/Kg | | 10/28/11 13:00 | 10/31/11 18:57 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 10/28/11 13:00 | 10/31/11 18:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.04* | | *0 - 1* | *10/28/11 13:00* | *10/31/11 18:57* | *1* |
| *p-Terphenyl* | *76* | | *38 - 148* | *10/28/11 13:00* | *10/31/11 18:57* | *1* |

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

**Lab Sample ID: MB 720-101845/1-A**
**Matrix: Solid**
**Analysis Batch: 101832**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101845**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 19:00 | 10/27/11 20:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 19:00 | 10/27/11 20:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/27/11 19:00 | 10/27/11 20:48 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *45 - 131* | *10/27/11 19:00* | *10/27/11 20:48* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *60 - 140* | *10/27/11 19:00* | *10/27/11 20:48* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* | *10/27/11 19:00* | *10/27/11 20:48* | *1* |

**Lab Sample ID: LCS 720-101845/2-A**
**Matrix: Solid**
**Analysis Batch: 101832**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101845**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 50.0 | 51.4 | | ug/Kg | | 103 | 84 - 130 |
| 1,3-Dichlorobenzene | 50.0 | 53.0 | | ug/Kg | | 106 | 84 - 131 |
| 1,4-Dichlorobenzene | 50.0 | 51.8 | | ug/Kg | | 104 | 85 - 125 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101845/3-A**
**Matrix: Solid**
**Analysis Batch: 101832**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101845**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 50.0 | 51.2 | | ug/Kg | | 102 | 84 - 130 | 0 | 20 |
| 1,3-Dichlorobenzene | 50.0 | 53.6 | | ug/Kg | | 107 | 84 - 131 | 1 | 20 |
| 1,4-Dichlorobenzene | 50.0 | 52.4 | | ug/Kg | | 105 | 85 - 125 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *99* | | *58 - 140* |

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

**Lab Sample ID: MB 720-101600/1-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

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

**Lab Sample ID: MB 720-101600/1-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Bromomethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloroethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chloromethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dibromomethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Dichlorodifluoromethane | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Methylene Chloride | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Naphthalene | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

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

**Lab Sample ID: MB 720-101600/1-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Vinyl acetate | ND | | 50 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Xylenes, Total | ND | | 9.9 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 250 | | ug/Kg | | 10/25/11 08:26 | 10/25/11 09:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *45 - 131* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *58 - 140* | *10/25/11 08:26* | *10/25/11 09:56* | *1* |

**Lab Sample ID: LCS 720-101600/2-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.6 | 51.4 | | ug/Kg | | 104 | 71 - 144 |
| Acetone | 248 | 175 | | ug/Kg | | 70 | 30 - 162 |
| Benzene | 49.6 | 46.0 | | ug/Kg | | 93 | 77 - 113 |
| Dichlorobromomethane | 49.6 | 52.6 | | ug/Kg | | 106 | 86 - 131 |
| Bromobenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 88 - 120 |
| Chlorobromomethane | 49.6 | 48.0 | | ug/Kg | | 97 | 81 - 116 |
| Bromoform | 49.6 | 55.4 | | ug/Kg | | 112 | 59 - 158 |
| Bromomethane | 49.6 | 43.7 | | ug/Kg | | 88 | 59 - 132 |
| 2-Butanone (MEK) | 248 | 227 | | ug/Kg | | 92 | 61 - 150 |
| n-Butylbenzene | 49.6 | 49.2 | | ug/Kg | | 99 | 80 - 142 |
| sec-Butylbenzene | 49.6 | 47.2 | | ug/Kg | | 95 | 85 - 136 |
| tert-Butylbenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 71 - 130 |
| Carbon disulfide | 49.6 | 41.9 | | ug/Kg | | 84 | 60 - 136 |
| Carbon tetrachloride | 49.6 | 50.0 | | ug/Kg | | 101 | 81 - 138 |
| Chlorobenzene | 49.6 | 48.0 | | ug/Kg | | 97 | 82 - 114 |
| Chloroethane | 49.6 | 46.6 | | ug/Kg | | 94 | 65 - 126 |
| Chloroform | 49.6 | 47.4 | | ug/Kg | | 96 | 77 - 127 |
| Chloromethane | 49.6 | 40.9 | | ug/Kg | | 82 | 60 - 149 |
| 2-Chlorotoluene | 49.6 | 48.8 | | ug/Kg | | 98 | 80 - 138 |
| 4-Chlorotoluene | 49.6 | 48.2 | | ug/Kg | | 97 | 79 - 136 |
| Chlorodibromomethane | 49.6 | 53.4 | | ug/Kg | | 108 | 75 - 146 |
| 1,3-Dichloropropane | 49.6 | 53.0 | | ug/Kg | | 107 | 79 - 140 |
| 1,1-Dichloropropene | 49.6 | 47.6 | | ug/Kg | | 96 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 49.6 | 56.0 | | ug/Kg | | 113 | 68 - 145 |
| Ethylene Dibromide | 49.6 | 55.0 | | ug/Kg | | 111 | 79 - 140 |
| Dibromomethane | 49.6 | 51.4 | | ug/Kg | | 104 | 80 - 139 |
| Dichlorodifluoromethane | 49.6 | 34.5 | | ug/Kg | | 70 | 37 - 158 |
| 1,1-Dichloroethane | 49.6 | 46.8 | | ug/Kg | | 94 | 76 - 119 |

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38313-1

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

**Lab Sample ID: LCS 720-101600/2-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 49.6 | 49.4 | | ug/Kg | | 100 | 72 - 130 |
| 1,1-Dichloroethene | 49.6 | 41.1 | | ug/Kg | | 83 | 68 - 119 |
| cis-1,2-Dichloroethene | 49.6 | 53.4 | | ug/Kg | | 108 | 87 - 138 |
| trans-1,2-Dichloroethene | 49.6 | 38.5 | | ug/Kg | | 78 | 67 - 108 |
| 1,2-Dichloropropane | 49.6 | 47.0 | | ug/Kg | | 95 | 73 - 127 |
| cis-1,3-Dichloropropene | 49.6 | 49.6 | | ug/Kg | | 100 | 68 - 147 |
| trans-1,3-Dichloropropene | 49.6 | 52.8 | | ug/Kg | | 106 | 84 - 136 |
| Ethylbenzene | 49.6 | 48.2 | | ug/Kg | | 97 | 80 - 137 |
| Hexachlorobutadiene | 49.6 | 48.4 | | ug/Kg | | 98 | 72 - 132 |
| 2-Hexanone | 248 | 260 | | ug/Kg | | 105 | 60 - 161 |
| Isopropylbenzene | 49.6 | 51.0 | | ug/Kg | | 103 | 88 - 128 |
| 4-Isopropyltoluene | 49.6 | 48.6 | | ug/Kg | | 98 | 85 - 133 |
| Methylene Chloride | 49.6 | 46.0 | | ug/Kg | | 93 | 72 - 134 |
| 4-Methyl-2-pentanone (MIBK) | 248 | 270 | | ug/Kg | | 109 | 69 - 160 |
| Naphthalene | 49.6 | 52.4 | | ug/Kg | | 106 | 70 - 147 |
| N-Propylbenzene | 49.6 | 46.2 | | ug/Kg | | 93 | 72 - 125 |
| Styrene | 49.6 | 51.8 | | ug/Kg | | 104 | 89 - 126 |
| 1,1,1,2-Tetrachloroethane | 49.6 | 52.6 | | ug/Kg | | 106 | 90 - 130 |
| 1,1,2,2-Tetrachloroethane | 49.6 | 52.6 | | ug/Kg | | 106 | 82 - 146 |
| Tetrachloroethene | 49.6 | 47.6 | | ug/Kg | | 96 | 78 - 132 |
| Toluene | 49.6 | 46.4 | | ug/Kg | | 94 | 80 - 114 |
| 1,2,3-Trichlorobenzene | 49.6 | 50.6 | | ug/Kg | | 102 | 82 - 135 |
| 1,2,4-Trichlorobenzene | 49.6 | 50.0 | | ug/Kg | | 101 | 70 - 131 |
| 1,1,1-Trichloroethane | 49.6 | 48.4 | | ug/Kg | | 98 | 80 - 127 |
| 1,1,2-Trichloroethane | 49.6 | 51.2 | | ug/Kg | | 103 | 82 - 125 |
| Trichloroethene | 49.6 | 45.2 | | ug/Kg | | 91 | 81 - 133 |
| Trichlorofluoromethane | 49.6 | 48.0 | | ug/Kg | | 97 | 71 - 139 |
| 1,2,3-Trichloropropane | 49.6 | 55.4 | | ug/Kg | | 112 | 76 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.6 | 47.4 | | ug/Kg | | 96 | 70 - 130 |
| 1,2,4-Trimethylbenzene | 49.6 | 48.6 | | ug/Kg | | 98 | 84 - 130 |
| 1,3,5-Trimethylbenzene | 49.6 | 47.8 | | ug/Kg | | 96 | 82 - 131 |
| Vinyl acetate | 49.6 | 55.0 | | ug/Kg | | 111 | 38 - 176 |
| Vinyl chloride | 49.6 | 41.1 | | ug/Kg | | 83 | 58 - 125 |
| m-Xylene & p-Xylene | 99.2 | 102 | | ug/Kg | | 103 | 79 - 146 |
| o-Xylene | 49.6 | 48.2 | | ug/Kg | | 97 | 84 - 140 |
| 2,2-Dichloropropane | 49.6 | 50.6 | | ug/Kg | | 102 | 73 - 162 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* |

**Lab Sample ID: LCS 720-101600/4-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 994 | 936 | | ug/Kg | | 94 | 61 - 128 |

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

**Lab Sample ID: LCS 720-101600/4-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *98* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101600/3-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 49.8 | 50.0 | | ug/Kg | | 100 | 71 - 144 | 3 | 20 |
| Acetone | 249 | 171 | | ug/Kg | | 69 | 30 - 162 | 2 | 30 |
| Benzene | 49.8 | 46.4 | | ug/Kg | | 93 | 77 - 113 | 1 | 20 |
| Dichlorobromomethane | 49.8 | 51.0 | | ug/Kg | | 102 | 86 - 131 | 3 | 20 |
| Bromobenzene | 49.8 | 49.8 | | ug/Kg | | 100 | 88 - 120 | 4 | 20 |
| Chlorobromomethane | 49.8 | 48.0 | | ug/Kg | | 96 | 81 - 116 | 0 | 20 |
| Bromoform | 49.8 | 56.0 | | ug/Kg | | 112 | 59 - 158 | 1 | 20 |
| Bromomethane | 49.8 | 47.0 | | ug/Kg | | 94 | 59 - 132 | 7 | 20 |
| 2-Butanone (MEK) | 249 | 233 | | ug/Kg | | 93 | 61 - 150 | 2 | 20 |
| n-Butylbenzene | 49.8 | 52.2 | | ug/Kg | | 105 | 80 - 142 | 6 | 20 |
| sec-Butylbenzene | 49.8 | 50.4 | | ug/Kg | | 101 | 85 - 136 | 7 | 20 |
| tert-Butylbenzene | 49.8 | 51.2 | | ug/Kg | | 103 | 71 - 130 | 7 | 20 |
| Carbon disulfide | 49.8 | 42.8 | | ug/Kg | | 86 | 60 - 136 | 2 | 20 |
| Carbon tetrachloride | 49.8 | 49.8 | | ug/Kg | | 100 | 81 - 138 | 0 | 20 |
| Chlorobenzene | 49.8 | 49.0 | | ug/Kg | | 98 | 82 - 114 | 2 | 20 |
| Chloroethane | 49.8 | 48.4 | | ug/Kg | | 97 | 65 - 126 | 4 | 20 |
| Chloroform | 49.8 | 47.8 | | ug/Kg | | 96 | 77 - 127 | 1 | 20 |
| Chloromethane | 49.8 | 42.2 | | ug/Kg | | 85 | 60 - 149 | 3 | 20 |
| 2-Chlorotoluene | 49.8 | 51.2 | | ug/Kg | | 103 | 80 - 138 | 5 | 20 |
| 4-Chlorotoluene | 49.8 | 51.0 | | ug/Kg | | 102 | 79 - 136 | 6 | 20 |
| Chlorodibromomethane | 49.8 | 53.0 | | ug/Kg | | 106 | 75 - 146 | 1 | 20 |
| 1,3-Dichloropropane | 49.8 | 53.0 | | ug/Kg | | 106 | 79 - 140 | 0 | 20 |
| 1,1-Dichloropropene | 49.8 | 47.8 | | ug/Kg | | 96 | 70 - 130 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | 49.8 | 58.6 | | ug/Kg | | 118 | 68 - 145 | 5 | 20 |
| Ethylene Dibromide | 49.8 | 54.2 | | ug/Kg | | 109 | 79 - 140 | 1 | 20 |
| Dibromomethane | 49.8 | 51.6 | | ug/Kg | | 104 | 80 - 139 | 0 | 20 |
| Dichlorodifluoromethane | 49.8 | 36.5 | | ug/Kg | | 73 | 37 - 158 | 5 | 20 |
| 1,1-Dichloroethane | 49.8 | 47.6 | | ug/Kg | | 96 | 76 - 119 | 2 | 20 |
| 1,2-Dichloroethane | 49.8 | 49.0 | | ug/Kg | | 98 | 72 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 49.8 | 42.2 | | ug/Kg | | 85 | 68 - 119 | 3 | 20 |
| cis-1,2-Dichloroethene | 49.8 | 53.8 | | ug/Kg | | 108 | 87 - 138 | 1 | 20 |
| trans-1,2-Dichloroethene | 49.8 | 39.8 | | ug/Kg | | 80 | 67 - 108 | 3 | 20 |
| 1,2-Dichloropropane | 49.8 | 47.6 | | ug/Kg | | 96 | 73 - 127 | 1 | 20 |
| cis-1,3-Dichloropropene | 49.8 | 49.6 | | ug/Kg | | 100 | 68 - 147 | 0 | 20 |
| trans-1,3-Dichloropropene | 49.8 | 52.6 | | ug/Kg | | 106 | 84 - 136 | 0 | 20 |
| Ethylbenzene | 49.8 | 49.2 | | ug/Kg | | 99 | 80 - 137 | 2 | 20 |
| Hexachlorobutadiene | 49.8 | 52.2 | | ug/Kg | | 105 | 72 - 132 | 8 | 20 |
| 2-Hexanone | 249 | 259 | | ug/Kg | | 104 | 60 - 161 | 0 | 20 |
| Isopropylbenzene | 49.8 | 52.0 | | ug/Kg | | 104 | 88 - 128 | 2 | 20 |
| 4-Isopropyltoluene | 49.8 | 51.4 | | ug/Kg | | 103 | 85 - 133 | 6 | 20 |

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

**Lab Sample ID: LCSD 720-101600/3-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methylene Chloride | 49.8 | 46.2 | | ug/Kg | | 93 | 72 - 134 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 249 | 267 | | ug/Kg | | 107 | 69 - 160 | 1 | 20 |
| Naphthalene | 49.8 | 54.0 | | ug/Kg | | 108 | 70 - 147 | 3 | 20 |
| N-Propylbenzene | 49.8 | 48.2 | | ug/Kg | | 97 | 72 - 125 | 4 | 20 |
| Styrene | 49.8 | 52.8 | | ug/Kg | | 106 | 89 - 126 | 2 | 20 |
| 1,1,1,2-Tetrachloroethane | 49.8 | 53.2 | | ug/Kg | | 107 | 90 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 49.8 | 53.2 | | ug/Kg | | 107 | 82 - 146 | 1 | 20 |
| Tetrachloroethene | 49.8 | 48.2 | | ug/Kg | | 97 | 78 - 132 | 1 | 20 |
| Toluene | 49.8 | 47.8 | | ug/Kg | | 96 | 80 - 114 | 3 | 20 |
| 1,2,3-Trichlorobenzene | 49.8 | 52.2 | | ug/Kg | | 105 | 82 - 135 | 3 | 20 |
| 1,2,4-Trichlorobenzene | 49.8 | 51.8 | | ug/Kg | | 104 | 70 - 131 | 4 | 20 |
| 1,1,1-Trichloroethane | 49.8 | 48.2 | | ug/Kg | | 97 | 80 - 127 | 0 | 20 |
| 1,1,2-Trichloroethane | 49.8 | 51.0 | | ug/Kg | | 102 | 82 - 125 | 0 | 20 |
| Trichloroethene | 49.8 | 46.6 | | ug/Kg | | 94 | 81 - 133 | 3 | 20 |
| Trichlorofluoromethane | 49.8 | 49.8 | | ug/Kg | | 100 | 71 - 139 | 4 | 20 |
| 1,2,3-Trichloropropane | 49.8 | 55.6 | | ug/Kg | | 112 | 76 - 146 | 0 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 49.8 | 47.2 | | ug/Kg | | 95 | 70 - 130 | 0 | 20 |
| 1,2,4-Trimethylbenzene | 49.8 | 51.0 | | ug/Kg | | 102 | 84 - 130 | 5 | 20 |
| 1,3,5-Trimethylbenzene | 49.8 | 50.2 | | ug/Kg | | 101 | 82 - 131 | 5 | 20 |
| Vinyl acetate | 49.8 | 54.8 | | ug/Kg | | 110 | 38 - 176 | 0 | 20 |
| Vinyl chloride | 49.8 | 43.8 | | ug/Kg | | 88 | 58 - 125 | 6 | 20 |
| m-Xylene & p-Xylene | 99.6 | 104 | | ug/Kg | | 105 | 79 - 146 | 3 | 20 |
| o-Xylene | 49.8 | 49.2 | | ug/Kg | | 99 | 84 - 140 | 2 | 20 |
| 2,2-Dichloropropane | 49.8 | 51.2 | | ug/Kg | | 103 | 73 - 162 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *97* | | *58 - 140* |

**Lab Sample ID: LCSD 720-101600/5-A**
**Matrix: Solid**
**Analysis Batch: 101592**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 101600**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 992 | 932 | | ug/Kg | | 94 | 61 - 128 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *45 - 131* |
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *60 - 140* |
| *Toluene-d8 (Surr)* | *96* | | *58 - 140* |

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

**Lab Sample ID: MB 720-101878/1-A**
**Matrix: Solid**
**Analysis Batch: 101967**

**Client Sample ID: Method Blank**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101878**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.98 | | mg/Kg | | 10/28/11 13:00 | 10/31/11 20:10 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 49 | | mg/Kg | | 10/28/11 13:00 | 10/31/11 20:10 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.01* | | *0 - 1* | *10/28/11 13:00* | *10/31/11 20:10* | *1* |
| *p-Terphenyl* | *94* | | *38 - 148* | *10/28/11 13:00* | *10/31/11 20:10* | *1* |

**Lab Sample ID: LCS 720-101878/2-A**
**Matrix: Solid**
**Analysis Batch: 101967**

**Client Sample ID: Lab Control Sample**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101878**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.6 | 68.0 | | mg/Kg | | 82 | 50 - 150 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *91* | | *38 - 148* |

**Lab Sample ID: LCSD 720-101878/3-A**
**Matrix: Solid**
**Analysis Batch: 101967**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Silica Gel Cleanup**
**Prep Batch: 101878**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 82.8 | 57.3 | | mg/Kg | | 69 | 50 - 150 | 17 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *84* | | *38 - 148* |

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

## GC/MS VOA

### Analysis Batch: 101592

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCS 720-101600/2-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCS 720-101600/4-A | Lab Control Sample | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCSD 720-101600/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| LCSD 720-101600/5-A | Lab Control Sample Dup | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |
| MB 720-101600/1-A | Method Blank | Total/NA | Solid | 8260B/CA_LUFT MS | 101600 |

### Prep Batch: 101600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Total/NA | Solid | 5035 | |
| LCS 720-101600/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 720-101600/4-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 720-101600/3-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| LCSD 720-101600/5-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| MB 720-101600/1-A | Method Blank | Total/NA | Solid | 5035 | |

### Analysis Batch: 101832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Total/NA | Solid | 8260B | 101845 |
| LCS 720-101845/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 101845 |
| LCSD 720-101845/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B | 101845 |
| MB 720-101845/1-A | Method Blank | Total/NA | Solid | 8260B | 101845 |

### Prep Batch: 101845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Total/NA | Solid | 5030B | |
| LCS 720-101845/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 720-101845/3-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |
| MB 720-101845/1-A | Method Blank | Total/NA | Solid | 5030B | |

## GC Semi VOA

### Prep Batch: 101878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Silica Gel Cleanup | Solid | 3546 | |
| LCS 720-101878/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 3546 | |
| LCSD 720-101878/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 3546 | |
| MB 720-101878/1-A | Method Blank | Silica Gel Cleanup | Solid | 3546 | |

### Analysis Batch: 101967

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Silica Gel Cleanup | Solid | 8015B | 101878 |
| LCS 720-101878/2-A | Lab Control Sample | Silica Gel Cleanup | Solid | 8015B | 101878 |
| LCSD 720-101878/3-A | Lab Control Sample Dup | Silica Gel Cleanup | Solid | 8015B | 101878 |
| MB 720-101878/1-A | Method Blank | Silica Gel Cleanup | Solid | 8015B | 101878 |

# Lab Chronicle



**Client Sample ID: FEPIT-EXS-7-6** **Lab Sample ID: 720-38313-1**
**Date Collected: 10/25/11 12:10** **Matrix: Solid**
**Date Received: 10/25/11 16:50**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 101600 | 10/25/11 18:00 | JZ | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 101592 | 10/25/11 18:34 | LL | TAL SF |
| Total/NA | Prep | 5030B | | | 101845 | 10/27/11 19:00 | LL | TAL SF |
| Total/NA | Analysis | 8260B | | 1 | 101832 | 10/27/11 23:54 | AC | TAL SF |
| Silica Gel Cleanup | Prep | 3546 | | | 101878 | 10/28/11 13:00 | NP | TAL SF |
| Silica Gel Cleanup | Analysis | 8015B | | 1 | 101967 | 10/31/11 18:57 | DH | TAL SF |

**Laboratory References:**

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

# Certification Summary



| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica San Francisco | California | State Program | 9 | 2496 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary



| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL SF |
| 8260B/CA_LUFTMS | 8260B / CA LUFT MS | SW846 | TAL SF |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SF |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet

TestAmerica Job ID: 720-38313-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 720-38313-1 | FEPIT-EXS-7-6 | Solid | 10/25/11 12:10 | 10/25/11 16:50 |

13

Seq. No. 1039

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

# CHAIN OF CUSTODY FORM

amec

11/7/2011

Lab: Test America

Samplers: Haely Young

Job Number: 0D10160070.00005 720-38313

134521

Name/Location: Crown Chevrolet Sump Excavation, Dublin CA

Project Manager: Avery Patton

Recorder: [signature] (Signature Required)

| MATRIX: Water | Soil | Air | | # CONTAINERS: Unpres. | H2SO4 | HNO3 | HCL | DI Water | MeOH | SAMPLE NUMBER | DATE: YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | ANALYSIS REQUESTED: 8260B (VOCs) | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd, mo (8015) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | | 1 | | | | 2 | 1 | FEPit-EXS-7-6 | 11 | 10 | 25 | 1210 | | | X | | | X | X |

Page 22 of 23

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#:

TAT: Standard

Comments: Field Filtered Y/N

AMEC
2101 Webster St, 12th Floor
Oakland, CA 94612
(510) 663-4100

## CHAIN OF CUSTODY RECORD

| Relinquished By (Signature) | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | Haely Young | AMEC | 10/25/11 @ 1630 |

| Received By (Signature): | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | T. Stitt | TASF | 10/25/11 1630 |

| Relinquished By (Signature) | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | T. Stitt | TASF | 10/25/11 1650 |

| Received By (Signature): | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | [illegible] | TASF | 10/25/11 1650 |

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Method of Shipment:

White - Laboratory Copy 2.0°c Yellow - Project Office Copy Pink - Field or Office Copy F1008-E

# Login Sample Receipt Checklist

Client: AMEC Geomatrix Inc.

Job Number: 720-38313-1

**Login Number: 38313**
**List Number: 1**
**Creator: Apostol, Anita**

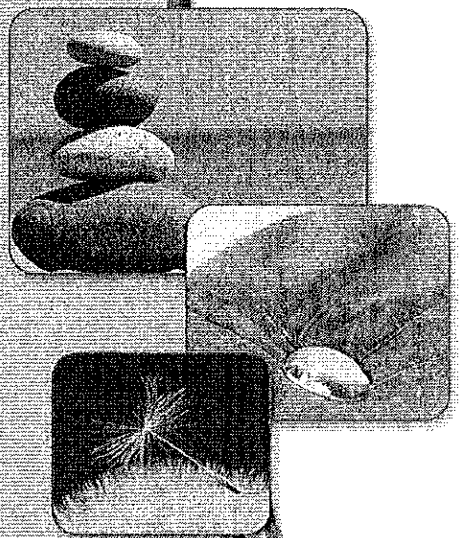
**List Source: TestAmerica San Francisco**

| 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 | |
| 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 | 2.0 |
| 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 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. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT



TestAmerica Laboratories, Inc.
TestAmerica San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-38382-1
Client Project/Site: Crown Chevrolet Sump Excavation
Revision: 1

For:
AMEC Geomatrix Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

Attn: Avery Patton

Authorized for release by:
*12/19/2011 3:45:14 PM*

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com



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

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

# Table of Contents

## 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 |
| 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) |

## Job ID: 720-38382-1

### Laboratory: TestAmerica San Francisco

**Narrative**

**Job Narrative**
**720-38382-1**

Revised the case narrative on 12/19/11.

**Comments**

No additional comments.

**Receipt**

Logged diesel with silica gel per A.S..

All other samples were received in good condition within temperature requirements.

**GC/MS VOA**

No analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 8015B: Concentrations reported represent individual or discrete peaks: 720 - 38382 - 1

Method(s) 8015B: The following sample(s) contained a hydrocarbon pattern that does not match the Diesel Fuel #2 and motor oil patterns used by the laboratory for quantitative purposes: SUMP-EXB-WATER-2-16 (720-38382-1),

No other analytical or quality issues were noted.

**Metals**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## Client Sample ID: SUMP-EXB-WATER-2-16 Lab Sample ID: 720-38382-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 6.3 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| Chlorobenzene | 3000 | | 1000 | | ug/L | 2000 | | 8260B/CA_LUFTM | Total/NA |
| 1,2-Dichlorobenzene | 21000 | | 1000 | | ug/L | 2000 | | 8260B/CA_LUFTM | Total/NA |
| 1,3-Dichlorobenzene | 4.5 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,4-Dichlorobenzene | 130 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| N-Propylbenzene | 1.5 | | 1.0 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| Tetrachloroethene | 6.5 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| Toluene | 0.58 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trichlorobenzene | 6.6 | | 1.0 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,2,4-Trimethylbenzene | 8.3 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| 1,3,5-Trimethylbenzene | 3.7 | | 0.50 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| Xylenes, Total | 1.8 | | 1.0 | | ug/L | 1 | | 8260B/CA_LUFTM | Total/NA |
| Diesel Range Organics [C10-C28] | 6200 | J | 53 | | ug/L | 1 | | 8015B | Dissolved |

## Client Sample ID: TB-101311 Lab Sample ID: 720-38382-2

No Detections

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

**Client Sample ID: SUMP-EXB-WATER-2-16**
**Date Collected: 10/28/11 12:36**
**Date Received: 10/28/11 17:30**

**Lab Sample ID: 720-38382-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Benzene | 6.3 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 11/01/11 20:37 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Chlorobenzene | 3000 | | 1000 | | ug/L | | | 11/02/11 16:24 | 2000 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2-Dichlorobenzene | 21000 | | 1000 | | ug/L | | | 11/02/11 16:24 | 2000 |
| 1,3-Dichlorobenzene | 4.5 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,4-Dichlorobenzene | 130 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| N-Propylbenzene | 1.5 | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |

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

**Client Sample ID: SUMP-EXB-WATER-2-16**
**Date Collected: 10/28/11 12:36**
**Date Received: 10/28/11 17:30**

**Lab Sample ID: 720-38382-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Tetrachloroethene | 6.5 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Toluene | 0.58 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2,4-Trichlorobenzene | 6.6 | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,2,4-Trimethylbenzene | 8.3 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| 1,3,5-Trimethylbenzene | 3.7 | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 11/01/11 20:37 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Xylenes, Total | 1.8 | | 1.0 | | ug/L | | | 11/01/11 20:37 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 20:37 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 100000 | | ug/L | | | 11/02/11 16:24 | 2000 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *109* | | *67 - 130* | | *11/01/11 20:37* | *1* |
| *4-Bromofluorobenzene* | *98* | | *67 - 130* | | *11/02/11 16:24* | *2000* |
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *75 - 138* | | *11/01/11 20:37* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *121* | | *75 - 138* | | *11/02/11 16:24* | *2000* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *11/01/11 20:37* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *70 - 130* | | *11/02/11 16:24* | *2000* |

**Client Sample ID: TB-101311**
**Date Collected: 10/28/11 13:00**
**Date Received: 10/28/11 17:30**

**Lab Sample ID: 720-38382-2**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 11/01/11 18:15 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |



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

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

**Client Sample ID: TB-101311** **Lab Sample ID: 720-38382-2**
**Date Collected: 10/28/11 13:00** **Matrix: Water**
**Date Received: 10/28/11 17:30**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 11/01/11 18:15 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 11/01/11 18:15 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 18:15 | 1 |

# Client Sample Results

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38382-1

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

**Client Sample ID: SUMP-EXB-WATER-2-16**
**Date Collected: 10/28/11 12:36**
**Date Received: 10/28/11 17:30**

**Lab Sample ID: 720-38382-1**
**Matrix: Water**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 6200 | J | 53 | | ug/L | | 11/01/11 15:46 | 11/03/11 22:46 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 110 | | ug/L | | 11/01/11 15:46 | 11/03/11 22:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.0003* | | *0 - 5* | *11/01/11 15:46* | *11/03/11 22:46* | *1* |
| *p-Terphenyl* | *87* | | *31 - 150* | *11/01/11 15:46* | *11/03/11 22:46* | *1* |

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

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *67 - 130* | | *11/01/11 18:15* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *75 - 138* | | *11/01/11 18:15* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *70 - 130* | | *11/01/11 18:15* | *1* |

# QC Sample Results



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

**Lab Sample ID: MB 720-102054/4**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 11/01/11 12:46 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |

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

**Lab Sample ID: MB 720-102054/4**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 11/01/11 12:46 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 11/01/11 12:46 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 11/01/11 12:46 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *67 - 130* | | *11/01/11 12:46* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *75 - 138* | | *11/01/11 12:46* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* | | *11/01/11 12:46* | *1* |

**Lab Sample ID: LCS 720-102054/5**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 25.0 | 27.2 | | ug/L | | 109 | 62 - 130 |
| Acetone | 125 | 95.5 | | ug/L | | 76 | 26 - 180 |
| Benzene | 25.0 | 23.4 | | ug/L | | 94 | 79 - 120 |
| Dichlorobromomethane | 25.0 | 26.7 | | ug/L | | 107 | 70 - 130 |
| Bromobenzene | 25.0 | 25.7 | | ug/L | | 103 | 79 - 127 |
| Chlorobromomethane | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 |
| Bromoform | 25.0 | 28.7 | | ug/L | | 115 | 68 - 136 |
| Bromomethane | 25.0 | 25.7 | | ug/L | | 103 | 43 - 151 |
| 2-Butanone (MEK) | 125 | 116 | | ug/L | | 93 | 54 - 124 |
| n-Butylbenzene | 25.0 | 23.2 | | ug/L | | 93 | 79 - 142 |
| sec-Butylbenzene | 25.0 | 23.9 | | ug/L | | 96 | 81 - 134 |
| tert-Butylbenzene | 25.0 | 24.6 | | ug/L | | 98 | 82 - 135 |
| Carbon disulfide | 25.0 | 20.6 | | ug/L | | 82 | 58 - 124 |
| Carbon tetrachloride | 25.0 | 26.1 | | ug/L | | 104 | 77 - 146 |
| Chlorobenzene | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 |
| Chloroethane | 25.0 | 24.5 | | ug/L | | 98 | 62 - 138 |
| Chloroform | 25.0 | 25.3 | | ug/L | | 101 | 70 - 130 |
| Chloromethane | 25.0 | 20.6 | | ug/L | | 82 | 52 - 175 |
| 2-Chlorotoluene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 |
| 4-Chlorotoluene | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 |
| Chlorodibromomethane | 25.0 | 27.7 | | ug/L | | 111 | 78 - 145 |

# QC Sample Results

Client: AMEC Geomatrix Inc. TestAmerica Job ID: 720-38382-1
Project/Site: Crown Chevrolet Sump Excavation

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

**Lab Sample ID: LCS 720-102054/5** **Client Sample ID: Lab Control Sample**
**Matrix: Water** **Prep Type: Total/NA**
**Analysis Batch: 102054**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 24.9 | | ug/L | | 100 | 87 - 118 |
| 1,3-Dichloropropane | 25.0 | 25.7 | | ug/L | | 103 | 75 - 124 |
| 1,1-Dichloropropene | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 28.0 | | ug/L | | 112 | 72 - 136 |
| Ethylene Dibromide | 25.0 | 27.4 | | ug/L | | 110 | 70 - 130 |
| Dibromomethane | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 20.8 | | ug/L | | 83 | 34 - 132 |
| 1,1-Dichloroethane | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 |
| 1,2-Dichloroethane | 25.0 | 26.1 | | ug/L | | 104 | 70 - 126 |
| 1,1-Dichloroethene | 25.0 | 21.4 | | ug/L | | 86 | 64 - 128 |
| cis-1,2-Dichloroethene | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 21.1 | | ug/L | | 84 | 68 - 118 |
| 1,2-Dichloropropane | 25.0 | 24.2 | | ug/L | | 97 | 70 - 130 |
| cis-1,3-Dichloropropene | 25.0 | 25.1 | | ug/L | | 100 | 81 - 126 |
| trans-1,3-Dichloropropene | 25.0 | 27.4 | | ug/L | | 110 | 83 - 140 |
| Ethylbenzene | 25.0 | 23.9 | | ug/L | | 96 | 84 - 120 |
| Hexachlorobutadiene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |
| 2-Hexanone | 125 | 118 | | ug/L | | 94 | 60 - 164 |
| Isopropylbenzene | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 |
| 4-Isopropyltoluene | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 |
| Methylene Chloride | 25.0 | 22.9 | | ug/L | | 92 | 73 - 147 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 127 | | ug/L | | 102 | 63 - 165 |
| Naphthalene | 25.0 | 26.1 | | ug/L | | 104 | 78 - 135 |
| N-Propylbenzene | 25.0 | 22.9 | | ug/L | | 92 | 70 - 130 |
| Styrene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 27.0 | | ug/L | | 108 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 |
| Tetrachloroethene | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 |
| Toluene | 25.0 | 23.0 | | ug/L | | 92 | 80 - 113 |
| 1,2,3-Trichlorobenzene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.1 | | ug/L | | 100 | 70 - 130 |
| 1,1,1-Trichloroethane | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 25.3 | | ug/L | | 101 | 78 - 125 |
| Trichloroethene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 |
| Trichlorofluoromethane | 25.0 | 25.0 | | ug/L | | 100 | 66 - 132 |
| 1,2,3-Trichloropropane | 25.0 | 26.6 | | ug/L | | 106 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 24.9 | | ug/L | | 100 | 42 - 162 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 132 |
| 1,3,5-Trimethylbenzene | 25.0 | 24.8 | | ug/L | | 99 | 70 - 130 |
| Vinyl acetate | 25.0 | 26.9 | | ug/L | | 108 | 43 - 163 |
| Vinyl chloride | 25.0 | 22.6 | | ug/L | | 90 | 63 - 125 |
| m-Xylene & p-Xylene | 50.0 | 48.6 | | ug/L | | 97 | 70 - 142 |
| o-Xylene | 25.0 | 24.8 | | ug/L | | 99 | 85 - 127 |
| 2,2-Dichloropropane | 25.0 | 26.2 | | ug/L | | 105 | 70 - 140 |

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

**Lab Sample ID: LCS 720-102054/5**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: LCS 720-102054/7**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 457 | | ug/L | | 91 | 62 - 117 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene* | *103* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *100* | | *70 - 130* |

**Lab Sample ID: LCSD 720-102054/6**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-butyl ether | 25.0 | 27.5 | | ug/L | | 110 | 62 - 130 | 1 | 20 |
| Acetone | 125 | 93.6 | | ug/L | | 75 | 26 - 180 | 2 | 30 |
| Benzene | 25.0 | 23.5 | | ug/L | | 94 | 79 - 120 | 0 | 20 |
| Dichlorobromomethane | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 | 1 | 20 |
| Bromobenzene | 25.0 | 25.6 | | ug/L | | 102 | 79 - 127 | 0 | 20 |
| Chlorobromomethane | 25.0 | 26.7 | | ug/L | | 107 | 70 - 130 | 3 | 20 |
| Bromoform | 25.0 | 29.3 | | ug/L | | 117 | 68 - 136 | 2 | 20 |
| Bromomethane | 25.0 | 24.8 | | ug/L | | 99 | 43 - 151 | 4 | 20 |
| 2-Butanone (MEK) | 125 | 118 | | ug/L | | 95 | 54 - 124 | 2 | 20 |
| n-Butylbenzene | 25.0 | 23.4 | | ug/L | | 94 | 79 - 142 | 1 | 20 |
| sec-Butylbenzene | 25.0 | 23.8 | | ug/L | | 95 | 81 - 134 | 0 | 20 |
| tert-Butylbenzene | 25.0 | 24.5 | | ug/L | | 98 | 82 - 135 | 0 | 20 |
| Carbon disulfide | 25.0 | 20.5 | | ug/L | | 82 | 58 - 124 | 0 | 20 |
| Carbon tetrachloride | 25.0 | 26.1 | | ug/L | | 104 | 77 - 146 | 0 | 20 |
| Chlorobenzene | 25.0 | 24.3 | | ug/L | | 97 | 70 - 130 | 0 | 20 |
| Chloroethane | 25.0 | 24.3 | | ug/L | | 97 | 62 - 138 | 1 | 20 |
| Chloroform | 25.0 | 25.5 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| Chloromethane | 25.0 | 19.9 | | ug/L | | 80 | 52 - 175 | 3 | 20 |
| 2-Chlorotoluene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 | 0 | 20 |
| 4-Chlorotoluene | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| Chlorodibromomethane | 25.0 | 28.5 | | ug/L | | 114 | 78 - 145 | 3 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 25.5 | | ug/L | | 102 | 70 - 130 | 0 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 | 1 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 24.9 | | ug/L | | 100 | 87 - 118 | 0 | 20 |
| 1,3-Dichloropropane | 25.0 | 25.9 | | ug/L | | 104 | 75 - 124 | 1 | 20 |
| 1,1-Dichloropropene | 25.0 | 24.1 | | ug/L | | 96 | 70 - 130 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 28.2 | | ug/L | | 113 | 72 - 136 | 1 | 20 |

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

**Lab Sample ID: LCSD 720-102054/6**　　**Client Sample ID: Lab Control Sample Dup**

**Matrix: Water**　　**Prep Type: Total/NA**

**Analysis Batch: 102054**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Ethylene Dibromide | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 | 1 | 20 |
| Dibromomethane | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 | 3 | 20 |
| Dichlorodifluoromethane | 25.0 | 20.8 | | ug/L | | 83 | 34 - 132 | 0 | 20 |
| 1,1-Dichloroethane | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 | 1 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.4 | | ug/L | | 106 | 70 - 126 | 1 | 20 |
| 1,1-Dichloroethene | 25.0 | 21.6 | | ug/L | | 86 | 64 - 128 | 1 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 28.4 | | ug/L | | 114 | 70 - 130 | 1 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 20.9 | | ug/L | | 84 | 68 - 118 | 1 | 20 |
| 1,2-Dichloropropane | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 | 1 | 20 |
| cis-1,3-Dichloropropene | 25.0 | 25.6 | | ug/L | | 102 | 81 - 126 | 2 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 27.8 | | ug/L | | 111 | 83 - 140 | 1 | 20 |
| Ethylbenzene | 25.0 | 24.0 | | ug/L | | 96 | 84 - 120 | 0 | 20 |
| Hexachlorobutadiene | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 | 1 | 20 |
| 2-Hexanone | 125 | 118 | | ug/L | | 95 | 60 - 164 | 0 | 20 |
| Isopropylbenzene | 25.0 | 25.1 | | ug/L | | 100 | 70 - 130 | 0 | 20 |
| 4-Isopropyltoluene | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| Methylene Chloride | 25.0 | 22.9 | | ug/L | | 92 | 73 - 147 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 126 | | ug/L | | 101 | 63 - 165 | 1 | 20 |
| Naphthalene | 25.0 | 26.6 | | ug/L | | 106 | 78 - 135 | 2 | 20 |
| N-Propylbenzene | 25.0 | 22.8 | | ug/L | | 91 | 70 - 130 | 0 | 20 |
| Styrene | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 | 0 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.4 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| Tetrachloroethene | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Toluene | 25.0 | 23.1 | | ug/L | | 92 | 80 - 113 | 0 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 27.0 | | ug/L | | 108 | 70 - 130 | 1 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 | 3 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 | 0 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 25.2 | | ug/L | | 101 | 78 - 125 | 0 | 20 |
| Trichloroethene | 25.0 | 25.2 | | ug/L | | 101 | 70 - 130 | 0 | 20 |
| Trichlorofluoromethane | 25.0 | 24.7 | | ug/L | | 99 | 66 - 132 | 1 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 27.1 | | ug/L | | 108 | 70 - 130 | 2 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 24.3 | | ug/L | | 97 | 42 - 162 | 2 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 132 | 0 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 | 0 | 20 |
| Vinyl acetate | 25.0 | 26.7 | | ug/L | | 107 | 43 - 163 | 1 | 20 |
| Vinyl chloride | 25.0 | 22.2 | | ug/L | | 89 | 63 - 125 | 2 | 20 |
| m-Xylene & p-Xylene | 50.0 | 48.5 | | ug/L | | 97 | 70 - 142 | 0 | 20 |
| o-Xylene | 25.0 | 25.0 | | ug/L | | 100 | 85 - 127 | 1 | 20 |
| 2,2-Dichloropropane | 25.0 | 26.2 | | ug/L | | 105 | 70 - 140 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *101* | | *70 - 130* |

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

**Lab Sample ID: LCSD 720-102054/8**
**Matrix: Water**
**Analysis Batch: 102054**

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 452 | | ug/L | | 90 | 62 - 117 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *102* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: MB 720-102121/4**
**Matrix: Water**
**Analysis Batch: 102121**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 11/02/11 09:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 11/02/11 09:55 | 1 |
| Gasoline Range Organics (GRO) -C5-C12 | ND | | 50 | | ug/L | | | 11/02/11 09:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *67 - 130* | | *11/02/11 09:55* | *1* |
| *1,2-Dichloroethane-d4 (Surr)* | *124* | | *75 - 138* | | *11/02/11 09:55* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *70 - 130* | | *11/02/11 09:55* | *1* |

**Lab Sample ID: LCS 720-102121/5**
**Matrix: Water**
**Analysis Batch: 102121**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 |
| 1,2-Dichlorobenzene | 25.0 | 23.7 | | ug/L | | 95 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *120* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* |

**Lab Sample ID: LCS 720-102121/7**
**Matrix: Water**
**Analysis Batch: 102121**

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | 500 | 408 | | ug/L | | 82 | 62 - 117 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *99* | | *70 - 130* |

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

**Lab Sample ID: LCSD 720-102121/6**
**Matrix: Water**
**Analysis Batch: 102121**

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | | | 25.0 | 24.1 | | ug/L | | 96 | 70 - 130 | 0 | 20 |
| 1,2-Dichlorobenzene | | | 25.0 | 24.0 | | ug/L | | 96 | 70 - 130 | 1 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

**Lab Sample ID: LCSD 720-102121/8**
**Matrix: Water**
**Analysis Batch: 102121**

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

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C5-C12 | | | 500 | 407 | | ug/L | | 81 | 62 - 117 | 0 | 20 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *67 - 130* |
| *1,2-Dichloroethane-d4 (Surr)* | *120* | | *75 - 138* |
| *Toluene-d8 (Surr)* | *98* | | *70 - 130* |

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

**Lab Sample ID: MB 720-102079/1-B**
**Matrix: Water**
**Analysis Batch: 102116**

**Client Sample ID: Method Blank**
**Prep Type: Dissolved**
**Prep Batch: 102080**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 | | ug/L | | 11/01/11 15:46 | 11/03/11 00:11 | 1 |
| Motor Oil Range Organics [C24-C36] | ND | | 99 | | ug/L | | 11/01/11 15:46 | 11/03/11 00:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Capric Acid (Surr)* | *0.03* | | *0 - 5* | *11/01/11 15:46* | *11/03/11 00:11* | *1* |
| *p-Terphenyl* | *105* | | *31 - 150* | *11/01/11 15:46* | *11/03/11 00:11* | *1* |

**Lab Sample ID: LCS 720-102079/2-B**
**Matrix: Water**
**Analysis Batch: 102116**

**Client Sample ID: Lab Control Sample**
**Prep Type: Dissolved**
**Prep Batch: 102080**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 2500 | 1810 | | ug/L | | 72 | 32 - 119 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *107* | | *31 - 150* |

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

**Lab Sample ID: LCSD 720-102079/3-B** **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** **Prep Type: Dissolved**
**Analysis Batch: 102116** **Prep Batch: 102080**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 2500 | 1820 | | ug/L | | 73 | 32 - 119 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *p-Terphenyl* | *111* | | *31 - 150* |

# QC Association Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38382-1

## GC/MS VOA

### Analysis Batch: 102054

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38382-1 | SUMP-EXB-WATER-2-16 | Total/NA | Water | 8260B/CA_LUFT MS | |
| 720-38382-2 | TB-101311 | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-102054/5 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-102054/7 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-102054/6 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-102054/8 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 720-102054/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

### Analysis Batch: 102121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38382-1 | SUMP-EXB-WATER-2-16 | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-102121/5 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCS 720-102121/7 | Lab Control Sample | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-102121/6 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| LCSD 720-102121/8 | Lab Control Sample Dup | Total/NA | Water | 8260B/CA_LUFT MS | |
| MB 720-102121/4 | Method Blank | Total/NA | Water | 8260B/CA_LUFT MS | |

## GC Semi VOA

### Prep Batch: 102080

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38382-1 | SUMP-EXB-WATER-2-16 | Dissolved | Water | 3510C SGC | |
| LCS 720-102079/2-B | Lab Control Sample | Dissolved | Water | 3510C SGC | |
| LCSD 720-102079/3-B | Lab Control Sample Dup | Dissolved | Water | 3510C SGC | |
| MB 720-102079/1-B | Method Blank | Dissolved | Water | 3510C SGC | |

### Analysis Batch: 102116

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 720-102079/2-B | Lab Control Sample | Dissolved | Water | 8015B | 102080 |
| LCSD 720-102079/3-B | Lab Control Sample Dup | Dissolved | Water | 8015B | 102080 |
| MB 720-102079/1-B | Method Blank | Dissolved | Water | 8015B | 102080 |

### Analysis Batch: 102203

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 720-38382-1 | SUMP-EXB-WATER-2-16 | Dissolved | Water | 8015B | 102080 |

# Lab Chronicle

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38382-1

## Client Sample ID: SUMP-EXB-WATER-2-16

**Lab Sample ID: 720-38382-1**

**Date Collected: 10/28/11 12:36**
**Date Received: 10/28/11 17:30**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 102054 | 11/01/11 20:37 | LL | TAL SF |
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 2000 | 102121 | 11/02/11 16:24 | AC | TAL SF |
| Dissolved | Prep | 3510C SGC | | | 102080 | 11/01/11 15:46 | RU | TAL SF |
| Dissolved | Analysis | 8015B | | 1 | 102203 | 11/03/11 22:46 | DH | TAL SF |

## Client Sample ID: TB-101311

**Lab Sample ID: 720-38382-2**

**Date Collected: 10/28/11 13:00**
**Date Received: 10/28/11 17:30**

**Matrix: Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B/CA_LUFTMS | | 1 | 102054 | 11/01/11 18:15 | LL | TAL SF |

**Laboratory References:**

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

# Certification Summary



| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica San Francisco | California | State Program | 9 | 2496 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38382-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B/CA_LUFTMS | 8260B / CA LUFT MS | SW846 | TAL SF |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SF |

**Protocol References:**

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

**Laboratory References:**

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

# Sample Summary

Client: AMEC Geomatrix Inc.
Project/Site: Crown Chevrolet Sump Excavation

TestAmerica Job ID: 720-38382-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 720-38382-1 | SUMP-EXB-WATER-2-16 | Water | 10/28/11 12:36 | 10/28/11 17:30 |
| 720-38382-2 | TB-101311 | Water | 10/28/11 13:00 | 10/28/11 17:30 |

Seq. No. 1044

Lab: Test America

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

# CHAIN OF COUSTODY FORM

amec

Samplers: Haely Young

720-38382

134594

Job Number: OD10160070.00005

Name/Location: Crown Chevrolet Sump Excavation, Dublin CA

Project Manager: Avery Patton

Recorder: [signature] (Signature Required)

| MATRIX: Water | Soil | Air | | # CONTAINERS: Unpres. | H2SO4 | HNO3 | HCL | | | SAMPLE NUMBER | DATE: YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ① X | | | 4 | 2 | [illegible] | [illegible] | 6 | | | Sump-EXB-Water-2-16 | 11 | 10 | 28 | 1236 | | |
| X | | | | | | | 2 | | | TB101311 | 11 | 10 | 28 | 1300 | | |

ANALYSIS REQUESTED

| 8260B (VOCs) | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd, mo (8015) (Filter using 0.7 micron glass-fiber filter) |
|---|---|---|---|---|
| X | | | X | X |
| X | | | | |

ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#: ① Hold ½ of sample vol. from Sump-EXB-Water-2-16 until further notice (sample vol. doubled)

TAT: Standard

Comments: Field Filtered Y/N

* Filter sample # Sump-EXB-Water-2-16 using a 0.7 micron glass-fiber filter prior to 8015 analysis.

AMEC
2101 Webster St, 12th Floor
Oakland, CA 94612
(510) 663-4153

CHAIN OF CUSTODY RECORD

| Relinquished By (Signature) | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | Haely Young | AMEC | 10/28/11 @ 1730 |

| Received By (Signature): | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] Miller | | | 10-28-11 1730 |

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Method of Shipment: 5°

White - Laboratory Copy Yellow - Project Office Copy Pink - Field or Office Copy F1008-E

13



12/19/2011

# Login Sample Receipt Checklist

Client: AMEC Geomatrix Inc. Job Number: 720-38382-1

**Login Number: 38382** **List Source: TestAmerica San Francisco**
**List Number: 1**
**Creator: Mullen, Joan**

| 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 | |
| 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. | False | |
| Is the Field Sampler's name present on COC? | True | |
| 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. | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

November 18, 2011

Avery Patton, Project Manager
AMEC Geomatrix
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Ms. Patton:

Included are the results from the testing of material submitted on October 27, 2011 from the 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360 project. There are 28 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
GMC1118R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2011 by Friedman & Bruya, Inc. from the AMEC Geomatrix 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360 project. Samples were logged in under the laboratory ID's listed below.

| Laboratory ID | AMEC Geomatrix |
|---|---|
| 110360-01 | SUMP-EXS-8-8 |
| 110360-02 | SUMP-EXB-Water-1-16 |
| 110360-03 | TB101111 |

The 8260C vinyl chloride concentrations are considered estimates due to hydrochloric acid preservation per EPA SW-846 table 4-1.

The 8260C soil calibration standard failed the acceptance criteria for chloroethane. The data were flagged accordingly.

The 8260C 1,2-dichlorobenzene detection in sample SUMP-EXB-Water-1-16 exceeded the calibration range of the instrument. There was insufficient sample to reanalyze at a dilution.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 10/26/11
Date Analyzed: 10/31/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING EPAMETHOD 8015M**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

| Sample ID<br>Laboratory ID | Gasoline Range<br>($C_6$-$C_{10}$) | Surrogate<br>(% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXS-8-8<br>110360-01 | <2 | 99 |
| Method Blank<br>01-1970 MB | <2 | 95 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 10/31/11
Date Analyzed: 10/31/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING EPA METHOD 8015M**

Results Reported as ug/L (ppb)

| Sample ID<br>Laboratory ID | Gasoline Range<br>($C_6$-$C_{10}$) | Surrogate<br>(% Recovery)<br>(Limit 51-134) |
|---|---|---|
| SUMP-EXB-Water-1-16<br>110360-02 | 3,900 x J | 115 |
| Method Blank<br>01-1971 MB | <50 | 106 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 11/09/11
Date Analyzed: 11/11/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES**
**FOR TOTAL PETROLEUM HYDROCARBONS**
**AS STODDARD SOLVENT**
**USING EPA METHOD 8015M**
**Sample Extracts Passed Through a**
**Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

| Sample ID<br>Laboratory ID | Stoddard Solvent Range<br>($C_8$-$C_{11}$) | Surrogate<br>(% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXS-8-8<br>110360-01 | <5 | 102 |
| Method Blank<br>01-2006 MB | <5 | 115 |

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 11/09/11
Date Analyzed: 11/11/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES**
**FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL**
**USING EPA METHOD 8015M**
**Sample Extracts Passed Through a**
**Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

| Sample ID<br>Laboratory ID | Diesel Range<br>($C_{10}$-$C_{25}$) | Surrogate<br>(% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXS-8-8<br>110360-01 | <5 | 102 |
| Method Blank<br>01-2006 MB | <5 | 115 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 11/03/11
Date Analyzed: 11/03/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES**
**FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL**
**USING EPA METHOD 8015M**
**Samples Filtered Prior to Extraction**
Results Reported as ug/L (ppb)

| Sample ID<br>Laboratory ID | Diesel Range<br>($C_{10}$-$C_{25}$) | Surrogate<br>(% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXB-Water-1-16<br>110360-02 | 5,200 x J | 101 |
| Method Blank<br>01-1983 MB | <10 | 91 |

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 11/09/11
Date Analyzed: 11/11/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES**
**FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL**
**USING EPA METHOD 8015M**
**Sample Extracts Passed Through a**
**Silica Gel Column Prior to Analysis**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

| Sample ID<br>Laboratory ID | Motor Oil Range<br>($C_{25}$-$C_{36}$) | Surrogate (% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXS-8-8<br>110360-01 | <25 | 102 |
| Method Blank<br>01-2006 MB | <25 | 115 |

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360
Date Extracted: 11/03/11
Date Analyzed: 11/03/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL USING EPA METHOD 8015M**
**Samples Filtered Prior to Extraction**
Results Reported as ug/L (ppb)

| Sample ID<br>Laboratory ID | Motor Oil Range<br>($C_{25}$-$C_{36}$) | Surrogate (% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXB-Water-1-16<br>110360-02 | <50 | 101 |
| Method Blank<br>01-1983 MB | <50 | 91 |

# FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SUMP-EXS-8-8 | Client: | AMEC Geomatrix |
| Date Received: | 10/27/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/09/11 | Lab ID: | 110360-01 |
| Date Analyzed: | 11/09/11 | Data File: | 110907.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 62 | 142 |
| Toluene-d8 | 97 | 55 | 145 |
| 4-Bromofluorobenzene | 103 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|---|---|---|---|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 ca | Chlorobenzene | 1.1 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.05 |
| Acetone | <0.5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | 0.15 |
| Methylene chloride | <0.5 | o-Xylene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Styrene | <0.05 |
| trans-1,2-Dichloroethene | <0.05 | Isopropylbenzene | <0.05 |
| 1,1-Dichloroethane | <0.05 | Bromoform | <0.05 |
| 2,2-Dichloropropane | <0.05 | n-Propylbenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | Bromobenzene | <0.05 |
| Chloroform | <0.05 | 1,3,5-Trimethylbenzene | <0.05 |
| 2-Butanone (MEK) | <0.5 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 1,2,3-Trichloropropane | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | 4-Chlorotoluene | <0.05 |
| Carbon tetrachloride | <0.05 | tert-Butylbenzene | <0.05 |
| Benzene | <0.03 | 1,2,4-Trimethylbenzene | <0.05 |
| Trichloroethene | <0.03 | sec-Butylbenzene | <0.05 |
| 1,2-Dichloropropane | <0.05 | p-Isopropyltoluene | <0.05 |
| Bromodichloromethane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <0.5 | 1,2-Dichlorobenzene | 3.3 |
| cis-1,3-Dichloropropene | <0.05 | 1,2-Dibromo-3-chloropropane | <0.5 |
| Toluene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Hexachlorobutadiene | <0.25 |
| 1,1,2-Trichloroethane | <0.05 | Naphthalene | <0.05 |
| 2-Hexanone | <0.5 | 1,2,3-Trichlorobenzene | <0.25 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | Method Blank | Client: | AMEC Geomatrix |
| Date Received: | NA | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/09/11 | Lab ID: | 01-1944 mb |
| Date Analyzed: | 11/09/11 | Data File: | 110906.D |
| Matrix: | Soil | Instrument: | GCMS4 |
| Units: | mg/kg (ppm) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 62 | 142 |
| Toluene-d8 | 97 | 55 | 145 |
| 4-Bromofluorobenzene | 102 | 65 | 139 |

| Compounds: | Concentration mg/kg (ppm) | Compounds: | Concentration mg/kg (ppm) |
|---|---|---|---|
| Dichlorodifluoromethane | <0.5 | 1,3-Dichloropropane | <0.05 |
| Chloromethane | <0.5 | Tetrachloroethene | <0.025 |
| Vinyl chloride | <0.05 | Dibromochloromethane | <0.05 |
| Bromomethane | <0.5 | 1,2-Dibromoethane (EDB) | <0.05 |
| Chloroethane | <0.5 ca | Chlorobenzene | <0.05 |
| Trichlorofluoromethane | <0.5 | Ethylbenzene | <0.05 |
| Acetone | <0.5 | 1,1,1,2-Tetrachloroethane | <0.05 |
| 1,1-Dichloroethene | <0.05 | m,p-Xylene | <0.1 |
| Methylene chloride | <0.5 | o-Xylene | <0.05 |
| Methyl t-butyl ether (MTBE) | <0.05 | Styrene | <0.05 |
| trans-1,2-Dichloroethene | <0.05 | Isopropylbenzene | <0.05 |
| 1,1-Dichloroethane | <0.05 | Bromoform | <0.05 |
| 2,2-Dichloropropane | <0.05 | n-Propylbenzene | <0.05 |
| cis-1,2-Dichloroethene | <0.05 | Bromobenzene | <0.05 |
| Chloroform | <0.05 | 1,3,5-Trimethylbenzene | <0.05 |
| 2-Butanone (MEK) | <0.5 | 1,1,2,2-Tetrachloroethane | <0.05 |
| 1,2-Dichloroethane (EDC) | <0.05 | 1,2,3-Trichloropropane | <0.05 |
| 1,1,1-Trichloroethane | <0.05 | 2-Chlorotoluene | <0.05 |
| 1,1-Dichloropropene | <0.05 | 4-Chlorotoluene | <0.05 |
| Carbon tetrachloride | <0.05 | tert-Butylbenzene | <0.05 |
| Benzene | <0.03 | 1,2,4-Trimethylbenzene | <0.05 |
| Trichloroethene | <0.03 | sec-Butylbenzene | <0.05 |
| 1,2-Dichloropropane | <0.05 | p-Isopropyltoluene | <0.05 |
| Bromodichloromethane | <0.05 | 1,3-Dichlorobenzene | <0.05 |
| Dibromomethane | <0.05 | 1,4-Dichlorobenzene | <0.05 |
| 4-Methyl-2-pentanone | <0.5 | 1,2-Dichlorobenzene | <0.05 |
| cis-1,3-Dichloropropene | <0.05 | 1,2-Dibromo-3-chloropropane | <0.5 |
| Toluene | <0.05 | 1,2,4-Trichlorobenzene | <0.25 |
| trans-1,3-Dichloropropene | <0.05 | Hexachlorobutadiene | <0.25 |
| 1,1,2-Trichloroethane | <0.05 | Naphthalene | <0.05 |
| 2-Hexanone | <0.5 | 1,2,3-Trichlorobenzene | <0.25 |

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SUMP-EXB-Water-1-16 | Client: | AMEC Geomatrix |
| Date Received: | 10/27/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 10/31/11 | Lab ID: | 110360-02 |
| Date Analyzed: | 10/31/11 | Data File: | 103112.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 101 | 63 | 127 |
| 4-Bromofluorobenzene | 98 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|---|---|---|---|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | 3.5 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <1 |
| Bromomethane | <1 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | 1,900 ve R |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | 10 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Methylene chloride | <5 | o-Xylene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Styrene | <1 |
| trans-1,2-Dichloroethene | <1 | Isopropylbenzene | <1 |
| 1,1-Dichloroethane | <1 | Bromoform | <1 |
| 2,2-Dichloropropane | <1 | n-Propylbenzene | 3.1 |
| cis-1,2-Dichloroethene | <1 | Bromobenzene | <1 |
| Chloroform | <1 | 1,3,5-Trimethylbenzene | 8.0 |
| 2-Butanone (MEK) | <10 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <1 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <1 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <1 | tert-Butylbenzene | <1 |
| Benzene | 7.0 | 1,2,4-Trimethylbenzene | 23 |
| Trichloroethene | <1 | sec-Butylbenzene | 1.9 |
| 1,2-Dichloropropane | <1 | p-Isopropyltoluene | 2.3 |
| Bromodichloromethane | <1 | 1,3-Dichlorobenzene | 6.8 |
| Dibromomethane | <1 | 1,4-Dichlorobenzene | 230 ve R |
| 4-Methyl-2-pentanone | <10 | 1,2-Dichlorobenzene | 4,900 ve R |
| cis-1,3-Dichloropropene | <1 | 1,2-Dibromo-3-chloropropane | <10 |
| Toluene | <1 | 1,2,4-Trichlorobenzene | 12 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | 1.7 |
| 2-Hexanone | <10 | 1,2,3-Trichlorobenzene | 1.5 |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SUMP-EXB-Water-1-16 | Client: | AMEC Geomatrix |
| Date Received: | 10/27/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/01/11 | Lab ID: | 110360-02 1/100 |
| Date Analyzed: | 11/01/11 | Data File: | 110117.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 100 | 63 | 127 |
| 4-Bromofluorobenzene | 102 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | |
|---|---|---|
| Dichlorodifluoromethane | <100 | R |
| Chloromethane | <1,000 | |
| Vinyl chloride | <20 | |
| Bromomethane | <100 | |
| Chloroethane | <100 | |
| Trichlorofluoromethane | <100 | |
| Acetone | <1,000 | |
| 1,1-Dichloroethene | <100 | |
| Methylene chloride | <500 | |
| Methyl t-butyl ether (MTBE) | <100 | |
| trans-1,2-Dichloroethene | <100 | |
| 1,1-Dichloroethane | <100 | |
| 2,2-Dichloropropane | <100 | |
| cis-1,2-Dichloroethene | <100 | |
| Chloroform | <100 | |
| 2-Butanone (MEK) | <1,000 | |
| 1,2-Dichloroethane (EDC) | <100 | |
| 1,1,1-Trichloroethane | <100 | |
| 1,1-Dichloropropene | <100 | |
| Carbon tetrachloride | <100 | |
| Benzene | <35 | |
| Trichloroethene | <100 | |
| 1,2-Dichloropropane | <100 | |
| Bromodichloromethane | <100 | |
| Dibromomethane | <100 | |
| 4-Methyl-2-pentanone | <1,000 | |
| cis-1,3-Dichloropropene | <100 | |
| Toluene | <100 | |
| trans-1,3-Dichloropropene | <100 | |
| 1,1,2-Trichloroethane | <100 | |
| 2-Hexanone | <1,000 | |

| Compounds: | Concentration ug/L (ppb) | |
|---|---|---|
| 1,3-Dichloropropane | <100 | R |
| Tetrachloroethene | <100 | |
| Dibromochloromethane | <100 | |
| 1,2-Dibromoethane (EDB) | <100 | |
| Chlorobenzene | 2,400 | |
| Ethylbenzene | <100 | R |
| 1,1,1,2-Tetrachloroethane | <100 | |
| m,p-Xylene | <200 | |
| o-Xylene | <100 | |
| Styrene | <100 | |
| Isopropylbenzene | <100 | |
| Bromoform | <100 | |
| n-Propylbenzene | <100 | |
| Bromobenzene | <100 | |
| 1,3,5-Trimethylbenzene | <100 | |
| 1,1,2,2-Tetrachloroethane | <100 | |
| 1,2,3-Trichloropropane | <100 | |
| 2-Chlorotoluene | <100 | |
| 4-Chlorotoluene | <100 | |
| tert-Butylbenzene | <100 | |
| 1,2,4-Trimethylbenzene | <100 | |
| sec-Butylbenzene | <100 | |
| p-Isopropyltoluene | <100 | |
| 1,3-Dichlorobenzene | <100 | |
| 1,4-Dichlorobenzene | 240 | |
| 1,2-Dichlorobenzene | 21,000 ve | J |
| 1,2-Dibromo-3-chloropropane | <1,000 | R |
| 1,2,4-Trichlorobenzene | <100 | |
| Hexachlorobutadiene | <100 | |
| Naphthalene | <100 | |
| 1,2,3-Trichlorobenzene | <100 | |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | TB101111 | Client: | AMEC Geomatrix |
| Date Received: | 10/27/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 10/31/11 | Lab ID: | 110360-03 |
| Date Analyzed: | 10/31/11 | Data File: | 103110.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 102 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|---|---|---|---|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.2 pr | Dibromochloromethane | <1 |
| Bromomethane | <1 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <10 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Methylene chloride | <5 | o-Xylene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Styrene | <1 |
| trans-1,2-Dichloroethene | <1 | Isopropylbenzene | <1 |
| 1,1-Dichloroethane | <1 | Bromoform | <1 |
| 2,2-Dichloropropane | <1 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <1 | Bromobenzene | <1 |
| Chloroform | <1 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <10 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <1 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <1 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <1 | tert-Butylbenzene | <1 |
| Benzene | <0.35 | 1,2,4-Trimethylbenzene | <1 |
| Trichloroethene | <1 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <1 | p-Isopropyltoluene | <1 |
| Bromodichloromethane | <1 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <1 | 1,2-Dibromo-3-chloropropane | <10 |
| Toluene | <1 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <10 | 1,2,3-Trichlorobenzene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | Method Blank | Client: | AMEC Geomatrix |
| Date Received: | NA | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 10/31/11 | Lab ID: | 01-1934 mb |
| Date Analyzed: | 10/31/11 | Data File: | 103106.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 104 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|---|---|---|---|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <1 |
| Bromomethane | <1 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <10 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Methylene chloride | <5 | o-Xylene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Styrene | <1 |
| trans-1,2-Dichloroethene | <1 | Isopropylbenzene | <1 |
| 1,1-Dichloroethane | <1 | Bromoform | <1 |
| 2,2-Dichloropropane | <1 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <1 | Bromobenzene | <1 |
| Chloroform | <1 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <10 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <1 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <1 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <1 | tert-Butylbenzene | <1 |
| Benzene | <0.35 | 1,2,4-Trimethylbenzene | <1 |
| Trichloroethene | <1 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <1 | p-Isopropyltoluene | <1 |
| Bromodichloromethane | <1 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <1 | 1,2-Dibromo-3-chloropropane | <10 |
| Toluene | <1 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <10 | 1,2,3-Trichlorobenzene | <1 |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | Method Blank | Client: | AMEC Geomatrix |
| Date Received: | NA | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/01/11 | Lab ID: | 01-1936 mb |
| Date Analyzed: | 11/01/11 | Data File: | 110107.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 103 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|---|---|---|---|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <1 |
| Bromomethane | <1 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <10 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Methylene chloride | <5 | o-Xylene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Styrene | <1 |
| trans-1,2-Dichloroethene | <1 | Isopropylbenzene | <1 |
| 1,1-Dichloroethane | <1 | Bromoform | <1 |
| 2,2-Dichloropropane | <1 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <1 | Bromobenzene | <1 |
| Chloroform | <1 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <10 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <1 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <1 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <1 | tert-Butylbenzene | <1 |
| Benzene | <0.35 | 1,2,4-Trimethylbenzene | <1 |
| Trichloroethene | <1 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <1 | p-Isopropyltoluene | <1 |
| Bromodichloromethane | <1 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <1 | 1,2-Dibromo-3-chloropropane | <10 |
| Toluene | <1 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <10 | 1,2,3-Trichlorobenzene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING EPA METHOD 8015M

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Gasoline | mg/kg (ppm) | 20 | 105 | 105 | 71-131 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING EPA METHOD 8015M

Laboratory Code: 110390-12 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference (Limit 20) |
|---|---|---|---|---|
| Gasoline | ug/L (ppb) | <100 | <100 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---|---|---|---|---|
| Gasoline | ug/L (ppb) | 1,000 | 99 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS STODDARD SOLVENT USING EPA METHOD 8015M

Laboratory Code: 110360-01 (Duplicate) Silica Gel

| Analyte | Reporting Units | (Wet wt) Sample Result | (Wet wt) Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|---|---|---|---|---|---|
| Stoddard Solvent | mg/kg (ppm) | <5 | <5 | nm | 0-20 |

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Stoddard Solvent | mg/kg (ppm) | 500 | 108 | 105 | 70-130 | 3 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING EPA METHOD 8015M

Laboratory Code: 110360-01 (Duplicate) Silica Gel

| Analyte | Reporting Units | (Wet wt) Sample Result | (Wet wt) Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|---|---|---|---|---|---|
| Diesel | mg/kg (ppm) | <5 | <5 | nm | 0-20 |

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Diesel | mg/kg (ppm) | 500 | 116 | 116 | 79-144 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING EPA METHOD 8015M

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Diesel | ug/L (ppb) | 2,500 | 100 | 91 | 63-142 | 9 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL USING EPA METHOD 8015M

Laboratory Code: 110360-01 (Duplicate) Silica Gel

| Analyte | Reporting Units | (Wet wt) Sample Result | (Wet wt) Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|---|---|---|---|---|---|
| Motor Oil | mg/kg (ppm) | <25 | <25 | nm | 0-20 |

Laboratory Code: Laboratory Control Sample Silica Gel

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Motor Oil | mg/kg (ppm) | 500 | 113 | 96 | 70-130 | 16 |

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Motor Oil | ug/L (ppb) | 2,500 | 84 | 89 | 70-130 | 6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 111102-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Acceptance Criteria |
|---|---|---|---|---|---|
| Ethanol | mg/kg (ppm) | 125 | <50 | 188 vo | 10-174 |
| Dichlorodifluoromethane | mg/kg (ppm) | 2.5 | <0.5 | 55 | 10-142 |
| Chloromethane | mg/kg (ppm) | 2.5 | <0.5 | 77 | 10-126 |
| Vinyl chloride | mg/kg (ppm) | 2.5 | <0.05 | 77 | 10-138 |
| Bromomethane | mg/kg (ppm) | 2.5 | <0.5 | 78 | 10-163 |
| Chloroethane | mg/kg (ppm) | 2.5 | <0.5 | 48 | 10-176 |
| Trichlorofluoromethane | mg/kg (ppm) | 2.5 | <0.5 | 106 | 10-176 |
| Acetone | mg/kg (ppm) | 12.5 | <0.5 | 82 | 10-163 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 87 | 10-160 |
| Hexane | mg/kg (ppm) | 2.5 | <0.25 | 67 | 10-137 |
| Methylene chloride | mg/kg (ppm) | 2.5 | <0.5 | 84 | 10-156 |
| t-Butyl alcohol (TBA) | mg/kg (ppm) | 125 | <2.5 | 88 | 16-169 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2.5 | <0.05 | 79 | 21-145 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 82 | 14-137 |
| Diisopropyl ether (DIPE) | mg/kg (ppm) | 2.5 | <0.05 | 81 | 29-136 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 81 | 19-140 |
| Ethyl t-butyl ether (ETBE) | mg/kg (ppm) | 2.5 | <0.05 | 80 | 27-141 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2.5 | <0.05 | 68 | 10-158 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | <0.05 | 79 | 25-135 |
| Chloroform | mg/kg (ppm) | 2.5 | <0.05 | 82 | 21-145 |
| 2-Butanone (MEK) | mg/kg (ppm) | 12.5 | <0.5 | 76 | 19-147 |
| t-Amyl methyl ether (TAME) | mg/kg (ppm) | 2.5 | <0.05 | 80 | 27-144 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | <0.05 | 79 | 12-160 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 84 | 10-156 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2.5 | <0.05 | 78 | 17-140 |
| Carbon tetrachloride | mg/kg (ppm) | 2.5 | <0.05 | 88 | 9-164 |
| Benzene | mg/kg (ppm) | 2.5 | <0.03 | 79 | 29-129 |
| Trichloroethene | mg/kg (ppm) | 2.5 | <0.03 | 77 | 21-139 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2.5 | <0.05 | 84 | 30-135 |
| Bromodichloromethane | mg/kg (ppm) | 2.5 | <0.05 | 89 | 23-155 |
| Dibromomethane | mg/kg (ppm) | 2.5 | <0.05 | 81 | 23-145 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 12.5 | <0.5 | 77 | 24-155 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2.5 | <0.05 | 83 | 28-144 |
| Toluene | mg/kg (ppm) | 2.5 | <0.05 | 81 | 35-130 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2.5 | <0.05 | 85 | 26-149 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2.5 | <0.05 | 84 | 30-142 |
| 2-Hexanone | mg/kg (ppm) | 12.5 | <0.5 | 79 | 15-166 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2.5 | <0.05 | 82 | 31-137 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | <0.025 | 76 | 20-133 |
| Dibromochloromethane | mg/kg (ppm) | 2.5 | <0.05 | 92 | 28-150 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2.5 | <0.05 | 82 | 28-142 |
| Chlorobenzene | mg/kg (ppm) | 2.5 | <0.05 | 82 | 32-129 |
| Ethylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 82 | 32-137 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2.5 | <0.05 | 91 | 31-143 |
| m,p-Xylene | mg/kg (ppm) | 5 | <0.1 | 78 | 34-136 |
| o-Xylene | mg/kg (ppm) | 2.5 | <0.05 | 84 | 33-134 |
| Styrene | mg/kg (ppm) | 2.5 | <0.05 | 85 | 35-137 |
| Isopropylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 85 | 31-142 |
| Bromoform | mg/kg (ppm) | 2.5 | <0.05 | 94 | 21-156 |
| n-Propylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 85 | 23-146 |
| Bromobenzene | mg/kg (ppm) | 2.5 | <0.05 | 83 | 34-130 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 86 | 18-149 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2.5 | <0.05 | 85 | 28-140 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2.5 | <0.05 | 80 | 25-144 |
| 2-Chlorotoluene | mg/kg (ppm) | 2.5 | <0.05 | 85 | 31-134 |
| 4-Chlorotoluene | mg/kg (ppm) | 2.5 | <0.05 | 83 | 31-136 |
| tert-Butylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 88 | 30-137 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 87 | 10-182 |
| sec-Butylbenzene | mg/kg (ppm) | 2.5 | <0.05 | 87 | 23-145 |
| p-Isopropyltoluene | mg/kg (ppm) | 2.5 | <0.05 | 87 | 21-149 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2.5 | <0.05 | 84 | 30-131 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2.5 | <0.05 | 82 | 29-129 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2.5 | <0.05 | 86 | 31-132 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2.5 | <0.5 | 86 | 11-161 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2.5 | <0.25 | 87 | 22-142 |
| Hexachlorobutadiene | mg/kg (ppm) | 2.5 | <0.25 | 88 | 19-142 |
| Naphthalene | mg/kg (ppm) | 2.5 | <0.05 | 89 | 14-157 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2.5 | <0.25 | 89 | 20-144 |

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

# QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Ethanol | mg/kg (ppm) | 125 | 117 | 121 | 11-168 | 3 |
| Dichlorodifluoromethane | mg/kg (ppm) | 2.5 | 59 | 52 | 10-146 | 13 |
| Chloromethane | mg/kg (ppm) | 2.5 | 78 | 73 | 27-133 | 7 |
| Vinyl chloride | mg/kg (ppm) | 2.5 | 78 | 76 | 22-139 | 3 |
| Bromomethane | mg/kg (ppm) | 2.5 | 78 | 76 | 38-114 | 3 |
| Chloroethane | mg/kg (ppm) | 2.5 | 69 | 75 | 20-153 | 8 |
| Trichlorofluoromethane | mg/kg (ppm) | 2.5 | 81 | 79 | 10-196 | 2 |
| Acetone | mg/kg (ppm) | 12.5 | 86 | 89 | 52-141 | 3 |
| 1,1-Dichloroethene | mg/kg (ppm) | 2.5 | 89 | 89 | 47-128 | 0 |
| Hexane | mg/kg (ppm) | 2.5 | 80 | 80 | 43-142 | 0 |
| Methylene chloride | mg/kg (ppm) | 2.5 | 84 | 86 | 42-132 | 2 |
| t-Butyl alcohol (TBA) | mg/kg (ppm) | 125 | 104 | 96 | 41-150 | 8 |
| Methyl t-butyl ether (MTBE) | mg/kg (ppm) | 2.5 | 93 | 92 | 60-123 | 1 |
| trans-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 89 | 89 | 67-127 | 0 |
| Diisopropyl ether (DIPE) | mg/kg (ppm) | 2.5 | 93 | 93 | 69-115 | 0 |
| 1,1-Dichloroethane | mg/kg (ppm) | 2.5 | 92 | 92 | 68-115 | 0 |
| Ethyl t-butyl ether (ETBE) | mg/kg (ppm) | 2.5 | 96 | 93 | 48-142 | 3 |
| 2,2-Dichloropropane | mg/kg (ppm) | 2.5 | 96 | 98 | 57-133 | 2 |
| cis-1,2-Dichloroethene | mg/kg (ppm) | 2.5 | 92 | 91 | 72-113 | 1 |
| Chloroform | mg/kg (ppm) | 2.5 | 93 | 92 | 66-120 | 1 |
| 2-Butanone (MEK) | mg/kg (ppm) | 12.5 | 93 | 92 | 57-123 | 1 |
| t-Amyl methyl ether (TAME) | mg/kg (ppm) | 2.5 | 95 | 95 | 47-143 | 0 |
| 1,2-Dichloroethane (EDC) | mg/kg (ppm) | 2.5 | 89 | 87 | 56-135 | 2 |
| 1,1,1-Trichloroethane | mg/kg (ppm) | 2.5 | 95 | 94 | 62-131 | 1 |
| 1,1-Dichloropropene | mg/kg (ppm) | 2.5 | 91 | 91 | 69-128 | 0 |
| Carbon tetrachloride | mg/kg (ppm) | 2.5 | 102 | 99 | 60-139 | 3 |
| Benzene | mg/kg (ppm) | 2.5 | 91 | 90 | 68-114 | 1 |
| Trichloroethene | mg/kg (ppm) | 2.5 | 90 | 89 | 68-114 | 1 |
| 1,2-Dichloropropane | mg/kg (ppm) | 2.5 | 94 | 94 | 72-127 | 0 |
| Bromodichloromethane | mg/kg (ppm) | 2.5 | 103 | 102 | 72-130 | 1 |
| Dibromomethane | mg/kg (ppm) | 2.5 | 93 | 92 | 70-120 | 1 |
| 4-Methyl-2-pentanone | mg/kg (ppm) | 12.5 | 93 | 92 | 45-145 | 1 |
| cis-1,3-Dichloropropene | mg/kg (ppm) | 2.5 | 102 | 100 | 75-136 | 2 |
| Toluene | mg/kg (ppm) | 2.5 | 92 | 92 | 66-126 | 0 |
| trans-1,3-Dichloropropene | mg/kg (ppm) | 2.5 | 103 | 101 | 72-132 | 2 |
| 1,1,2-Trichloroethane | mg/kg (ppm) | 2.5 | 96 | 95 | 75-113 | 1 |
| 2-Hexanone | mg/kg (ppm) | 12.5 | 94 | 93 | 33-152 | 1 |
| 1,3-Dichloropropane | mg/kg (ppm) | 2.5 | 94 | 94 | 72-130 | 0 |
| Tetrachloroethene | mg/kg (ppm) | 2.5 | 93 | 92 | 72-114 | 1 |
| Dibromochloromethane | mg/kg (ppm) | 2.5 | 107 | 106 | 74-125 | 1 |
| 1,2-Dibromoethane (EDB) | mg/kg (ppm) | 2.5 | 96 | 96 | 74-132 | 0 |
| Chlorobenzene | mg/kg (ppm) | 2.5 | 93 | 91 | 76-111 | 2 |
| Ethylbenzene | mg/kg (ppm) | 2.5 | 94 | 93 | 64-123 | 1 |
| 1,1,1,2-Tetrachloroethane | mg/kg (ppm) | 2.5 | 104 | 103 | 69-135 | 1 |
| m,p-Xylene | mg/kg (ppm) | 5 | 90 | 89 | 78-122 | 1 |
| o-Xylene | mg/kg (ppm) | 2.5 | 96 | 95 | 77-124 | 1 |
| Styrene | mg/kg (ppm) | 2.5 | 98 | 97 | 74-126 | 1 |
| Isopropylbenzene | mg/kg (ppm) | 2.5 | 97 | 96 | 76-127 | 1 |
| Bromoform | mg/kg (ppm) | 2.5 | 111 | 109 | 56-132 | 2 |
| n-Propylbenzene | mg/kg (ppm) | 2.5 | 98 | 97 | 74-124 | 1 |
| Bromobenzene | mg/kg (ppm) | 2.5 | 96 | 94 | 72-122 | 2 |
| 1,3,5-Trimethylbenzene | mg/kg (ppm) | 2.5 | 99 | 98 | 76-126 | 1 |
| 1,1,2,2-Tetrachloroethane | mg/kg (ppm) | 2.5 | 98 | 98 | 56-143 | 0 |
| 1,2,3-Trichloropropane | mg/kg (ppm) | 2.5 | 94 | 94 | 61-137 | 0 |
| 2-Chlorotoluene | mg/kg (ppm) | 2.5 | 97 | 96 | 74-121 | 1 |
| 4-Chlorotoluene | mg/kg (ppm) | 2.5 | 96 | 96 | 75-122 | 0 |
| tert-Butylbenzene | mg/kg (ppm) | 2.5 | 100 | 99 | 73-130 | 1 |
| 1,2,4-Trimethylbenzene | mg/kg (ppm) | 2.5 | 99 | 98 | 76-125 | 1 |
| sec-Butylbenzene | mg/kg (ppm) | 2.5 | 99 | 99 | 71-130 | 0 |
| p-Isopropyltoluene | mg/kg (ppm) | 2.5 | 101 | 100 | 70-132 | 1 |
| 1,3-Dichlorobenzene | mg/kg (ppm) | 2.5 | 95 | 95 | 75-121 | 0 |
| 1,4-Dichlorobenzene | mg/kg (ppm) | 2.5 | 93 | 93 | 74-117 | 0 |
| 1,2-Dichlorobenzene | mg/kg (ppm) | 2.5 | 97 | 96 | 76-121 | 1 |
| 1,2-Dibromo-3-chloropropane | mg/kg (ppm) | 2.5 | 101 | 101 | 61-136 | 0 |
| 1,2,4-Trichlorobenzene | mg/kg (ppm) | 2.5 | 101 | 100 | 70-129 | 1 |
| Hexachlorobutadiene | mg/kg (ppm) | 2.5 | 103 | 103 | 50-153 | 0 |
| Naphthalene | mg/kg (ppm) | 2.5 | 103 | 102 | 60-125 | 1 |
| 1,2,3-Trichlorobenzene | mg/kg (ppm) | 2.5 | 100 | 101 | 62-130 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L (ppb) | 50 | 141 | 139 | 25-158 | 1 |
| Chloromethane | ug/L (ppb) | 50 | 110 | 112 | 45-156 | 2 |
| Vinyl chloride | ug/L (ppb) | 50 | 118 | 119 | 50-154 | 1 |
| Bromomethane | ug/L (ppb) | 50 | 99 | 102 | 55-143 | 3 |
| Chloroethane | ug/L (ppb) | 50 | 111 | 113 | 58-146 | 2 |
| Trichlorofluoromethane | ug/L (ppb) | 50 | 109 | 98 | 50-150 | 11 |
| Acetone | ug/L (ppb) | 250 | 98 | 100 | 60-155 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 101 | 104 | 67-136 | 3 |
| Methylene chloride | ug/L (ppb) | 50 | 86 | 89 | 39-148 | 3 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 50 | 101 | 102 | 64-147 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 98 | 99 | 68-128 | 1 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 99 | 101 | 79-121 | 2 |
| 2,2-Dichloropropane | ug/L (ppb) | 50 | 118 | 118 | 55-143 | 0 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 101 | 103 | 80-123 | 2 |
| Chloroform | ug/L (ppb) | 50 | 98 | 100 | 80-121 | 2 |
| 2-Butanone (MEK) | ug/L (ppb) | 250 | 102 | 102 | 57-149 | 0 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 96 | 97 | 73-132 | 1 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 105 | 107 | 83-130 | 2 |
| 1,1-Dichloropropene | ug/L (ppb) | 50 | 104 | 105 | 77-129 | 1 |
| Carbon tetrachloride | ug/L (ppb) | 50 | 110 | 112 | 75-158 | 2 |
| Benzene | ug/L (ppb) | 50 | 101 | 102 | 69-134 | 1 |
| Trichloroethene | ug/L (ppb) | 50 | 98 | 99 | 80-120 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 50 | 101 | 102 | 77-123 | 1 |
| Bromodichloromethane | ug/L (ppb) | 50 | 106 | 108 | 81-133 | 2 |
| Dibromomethane | ug/L (ppb) | 50 | 99 | 100 | 82-125 | 1 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 250 | 101 | 103 | 70-140 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 50 | 109 | 110 | 82-132 | 1 |
| Toluene | ug/L (ppb) | 50 | 101 | 102 | 72-122 | 1 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 50 | 112 | 112 | 80-136 | 0 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 50 | 101 | 102 | 75-124 | 1 |
| 2-Hexanone | ug/L (ppb) | 250 | 103 | 104 | 64-152 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 50 | 101 | 103 | 76-126 | 2 |
| Tetrachloroethene | ug/L (ppb) | 50 | 106 | 107 | 76-121 | 1 |
| Dibromochloromethane | ug/L (ppb) | 50 | 108 | 108 | 84-133 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 50 | 103 | 103 | 82-125 | 0 |
| Chlorobenzene | ug/L (ppb) | 50 | 98 | 99 | 83-114 | 1 |
| Ethylbenzene | ug/L (ppb) | 50 | 102 | 103 | 77-124 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 50 | 108 | 109 | 84-127 | 1 |
| m,p-Xylene | ug/L (ppb) | 100 | 103 | 104 | 83-125 | 1 |
| o-Xylene | ug/L (ppb) | 50 | 106 | 108 | 86-121 | 2 |
| Styrene | ug/L (ppb) | 50 | 106 | 107 | 85-127 | 1 |
| Isopropylbenzene | ug/L (ppb) | 50 | 105 | 106 | 87-122 | 1 |
| Bromoform | ug/L (ppb) | 50 | 110 | 112 | 74-136 | 2 |
| n-Propylbenzene | ug/L (ppb) | 50 | 104 | 105 | 74-126 | 1 |
| Bromobenzene | ug/L (ppb) | 50 | 100 | 101 | 80-121 | 1 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 80-126 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 50 | 102 | 103 | 66-126 | 1 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 50 | 98 | 99 | 67-124 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 50 | 103 | 104 | 77-127 | 1 |
| 4-Chlorotoluene | ug/L (ppb) | 50 | 103 | 104 | 78-128 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 50 | 107 | 108 | 85-127 | 1 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 107 | 82-125 | 1 |
| sec-Butylbenzene | ug/L (ppb) | 50 | 105 | 106 | 80-125 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 50 | 108 | 109 | 82-127 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 50 | 101 | 101 | 85-116 | 0 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 50 | 98 | 100 | 84-121 | 2 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 50 | 102 | 103 | 85-116 | 1 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 50 | 106 | 107 | 57-141 | 1 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 50 | 108 | 109 | 72-130 | 1 |
| Hexachlorobutadiene | ug/L (ppb) | 50 | 104 | 104 | 53-141 | 0 |
| Naphthalene | ug/L (ppb) | 50 | 104 | 104 | 64-133 | 0 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 50 | 106 | 107 | 65-136 | 1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 110397-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Acceptance Criteria |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L (ppb) | 50 | <10 | 109 | 10-172 |
| Chloromethane | ug/L (ppb) | 50 | <10 | 99 | 25-166 |
| Vinyl chloride | ug/L (ppb) | 50 | <0.2 | 109 | 36-166 |
| Bromomethane | ug/L (ppb) | 50 | <1 | 95 | 47-169 |
| Chloroethane | ug/L (ppb) | 50 | <1 | 104 | 46-160 |
| Trichlorofluoromethane | ug/L (ppb) | 50 | <1 | 103 | 44-165 |
| Acetone | ug/L (ppb) | 250 | <10 | 100 | 10-182 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | <1 | 98 | 60-136 |
| Methylene chloride | ug/L (ppb) | 50 | <5 | 95 | 67-132 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 50 | <1 | 98 | 74-127 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 98 | 72-129 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | <1 | 98 | 70-128 |
| 2,2-Dichloropropane | ug/L (ppb) | 50 | <1 | 93 | 36-154 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 99 | 71-127 |
| Chloroform | ug/L (ppb) | 50 | <1 | 98 | 65-132 |
| 2-Butanone (MEK) | ug/L (ppb) | 250 | <10 | 99 | 10-129 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | <1 | 96 | 69-133 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | <1 | 102 | 60-146 |
| 1,1-Dichloropropene | ug/L (ppb) | 50 | <1 | 102 | 69-133 |
| Carbon tetrachloride | ug/L (ppb) | 50 | <1 | 104 | 56-152 |
| Benzene | ug/L (ppb) | 50 | <0.35 | 100 | 76-125 |
| Trichloroethene | ug/L (ppb) | 50 | <1 | 97 | 66-135 |
| 1,2-Dichloropropane | ug/L (ppb) | 50 | <1 | 100 | 78-125 |
| Bromodichloromethane | ug/L (ppb) | 50 | <1 | 104 | 61-150 |
| Dibromomethane | ug/L (ppb) | 50 | <1 | 98 | 66-141 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 250 | <10 | 100 | 10-185 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 50 | <1 | 101 | 72-132 |
| Toluene | ug/L (ppb) | 50 | <1 | 98 | 76-122 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 50 | <1 | 103 | 76-130 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 50 | <1 | 98 | 68-131 |
| 2-Hexanone | ug/L (ppb) | 250 | <10 | 101 | 10-185 |
| 1,3-Dichloropropane | ug/L (ppb) | 50 | <1 | 99 | 71-128 |
| Tetrachloroethene | ug/L (ppb) | 50 | <1 | 101 | 73-129 |
| Dibromochloromethane | ug/L (ppb) | 50 | <1 | 104 | 70-139 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 50 | <1 | 100 | 69-134 |
| Chlorobenzene | ug/L (ppb) | 50 | <1 | 97 | 77-122 |
| Ethylbenzene | ug/L (ppb) | 50 | <1 | 100 | 69-135 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 50 | <1 | 105 | 73-137 |
| m,p-Xylene | ug/L (ppb) | 100 | <2 | 101 | 69-135 |
| o-Xylene | ug/L (ppb) | 50 | <1 | 104 | 68-137 |
| Styrene | ug/L (ppb) | 50 | <1 | 103 | 71-133 |
| Isopropylbenzene | ug/L (ppb) | 50 | <1 | 102 | 65-142 |
| Bromoform | ug/L (ppb) | 50 | <1 | 107 | 65-142 |
| n-Propylbenzene | ug/L (ppb) | 50 | <1 | 101 | 58-144 |
| Bromobenzene | ug/L (ppb) | 50 | <1 | 98 | 75-124 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 50 | <1 | 102 | 66-137 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 50 | <1 | 99 | 51-154 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 50 | <1 | 97 | 53-150 |
| 2-Chlorotoluene | ug/L (ppb) | 50 | <1 | 100 | 66-127 |
| 4-Chlorotoluene | ug/L (ppb) | 50 | <1 | 100 | 65-130 |
| tert-Butylbenzene | ug/L (ppb) | 50 | <1 | 104 | 65-137 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 50 | <1 | 102 | 59-146 |
| sec-Butylbenzene | ug/L (ppb) | 50 | <1 | 102 | 64-140 |
| p-Isopropyltoluene | ug/L (ppb) | 50 | <1 | 103 | 65-141 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 50 | <1 | 97 | 72-123 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 50 | <1 | 95 | 69-126 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 50 | <1 | 100 | 69-128 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 50 | <10 | 100 | 32-164 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 50 | <1 | 102 | 76-132 |
| Hexachlorobutadiene | ug/L (ppb) | 50 | <1 | 96 | 60-143 |
| Naphthalene | ug/L (ppb) | 50 | <1 | 100 | 44-164 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 50 | <1 | 103 | 69-148 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/18/11
Date Received: 10/27/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110360

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L (ppb) | 50 | 117 | 112 | 25-158 | 4 |
| Chloromethane | ug/L (ppb) | 50 | 99 | 97 | 45-156 | 2 |
| Vinyl chloride | ug/L (ppb) | 50 | 114 | 110 | 50-154 | 4 |
| Bromomethane | ug/L (ppb) | 50 | 97 | 97 | 55-143 | 0 |
| Chloroethane | ug/L (ppb) | 50 | 110 | 108 | 58-146 | 2 |
| Trichlorofluoromethane | ug/L (ppb) | 50 | 102 | 100 | 50-150 | 2 |
| Acetone | ug/L (ppb) | 250 | 98 | 96 | 60-155 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 101 | 99 | 67-136 | 2 |
| Methylene chloride | ug/L (ppb) | 50 | 90 | 90 | 39-148 | 0 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 50 | 101 | 101 | 64-147 | 0 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 97 | 97 | 68-128 | 0 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 98 | 98 | 79-121 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 50 | 128 | 121 | 55-143 | 6 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 103 | 101 | 80-123 | 2 |
| Chloroform | ug/L (ppb) | 50 | 99 | 99 | 80-121 | 0 |
| 2-Butanone (MEK) | ug/L (ppb) | 250 | 102 | 101 | 57-149 | 1 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 95 | 95 | 73-132 | 0 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 107 | 106 | 83-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 50 | 104 | 104 | 77-129 | 0 |
| Carbon tetrachloride | ug/L (ppb) | 50 | 110 | 110 | 75-158 | 0 |
| Benzene | ug/L (ppb) | 50 | 102 | 101 | 69-134 | 1 |
| Trichloroethene | ug/L (ppb) | 50 | 99 | 98 | 80-120 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 50 | 101 | 101 | 77-123 | 0 |
| Bromodichloromethane | ug/L (ppb) | 50 | 107 | 108 | 81-133 | 1 |
| Dibromomethane | ug/L (ppb) | 50 | 99 | 98 | 82-125 | 1 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 250 | 104 | 102 | 70-140 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 50 | 110 | 110 | 82-132 | 0 |
| Toluene | ug/L (ppb) | 50 | 101 | 101 | 72-122 | 0 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 50 | 111 | 110 | 80-136 | 1 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 50 | 101 | 100 | 75-124 | 1 |
| 2-Hexanone | ug/L (ppb) | 250 | 101 | 100 | 64-152 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 50 | 101 | 101 | 76-126 | 0 |
| Tetrachloroethene | ug/L (ppb) | 50 | 108 | 108 | 76-121 | 0 |
| Dibromochloromethane | ug/L (ppb) | 50 | 108 | 108 | 84-133 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 50 | 102 | 103 | 82-125 | 1 |
| Chlorobenzene | ug/L (ppb) | 50 | 99 | 98 | 83-114 | 1 |
| Ethylbenzene | ug/L (ppb) | 50 | 102 | 102 | 77-124 | 0 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 50 | 107 | 108 | 84-127 | 1 |
| m,p-Xylene | ug/L (ppb) | 100 | 104 | 104 | 83-125 | 0 |
| o-Xylene | ug/L (ppb) | 50 | 107 | 107 | 86-121 | 0 |
| Styrene | ug/L (ppb) | 50 | 107 | 106 | 85-127 | 1 |
| Isopropylbenzene | ug/L (ppb) | 50 | 106 | 105 | 87-122 | 1 |
| Bromoform | ug/L (ppb) | 50 | 111 | 111 | 74-136 | 0 |
| n-Propylbenzene | ug/L (ppb) | 50 | 104 | 104 | 74-126 | 0 |
| Bromobenzene | ug/L (ppb) | 50 | 101 | 102 | 80-121 | 1 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 80-126 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 50 | 100 | 100 | 66-126 | 0 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 50 | 98 | 97 | 67-124 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 50 | 103 | 103 | 77-127 | 0 |
| 4-Chlorotoluene | ug/L (ppb) | 50 | 102 | 103 | 78-128 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 50 | 106 | 106 | 85-127 | 0 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 82-125 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 50 | 105 | 105 | 80-125 | 0 |
| p-Isopropyltoluene | ug/L (ppb) | 50 | 108 | 107 | 82-127 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 50 | 101 | 101 | 85-116 | 0 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 50 | 99 | 98 | 84-121 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 50 | 103 | 102 | 85-116 | 1 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 50 | 106 | 103 | 57-141 | 3 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 50 | 109 | 108 | 72-130 | 1 |
| Hexachlorobutadiene | ug/L (ppb) | 50 | 104 | 103 | 53-141 | 1 |
| Naphthalene | ug/L (ppb) | 50 | 103 | 103 | 64-133 | 0 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 50 | 107 | 107 | 65-136 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

# Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Seq. No. 1041 110360 North McDowell Blvd. Suite 200 Petaluma CA 94954 (707) 793-3800

# CHAIN OF CUSTODY FORM

MP 10/27/11 V5/C1

amec

Lab: Friedman & Bruya Inc

Samplers: Haely Young

Job Number: 0D10160070.00005

Name/Location: Crown Chevrolet Sump Excavation, Dublin CA

Project Manager: Avery Patton

Recorder: (Signature Required)

| Water | Soil | Air | Unpres. | H2SO4 | HNO3 | HCL | DI Water | MeOH | SAMPLE NUMBER | YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | 8260B (VOCs) | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHmod (8015) | mineral spirits | Silica Gel Cleanup | Filter using 0.7 micron glass-fiber filter | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | 1 | | | | 2 | 1 | SUMP-EXS-8-8 | 11 | 10 | 26 | 1135 | | | X | | | X | X | X | X | | 01 A-D |
| X | | | 2 | | | 3 | | | Sump-EXS-Water-1-16 | 11 | 10 | 26 | 1250 | | | X | | | X | X | X | | X | 02 A-E |
| ~~X~~ | | | | | | ~~3~~ | | | | | | | | | | | | | | | | | | |
| X | | | | | | 1 | | | TB101111 | 11 | 10 | 26 | 1320 | | | X | | | | | | | | 03 |

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

AMEC
2101 Webster St, 12th Floor
Oakland CA 94612
(510) 663-4153

PO#:

TAT: Standard

Comments: Field Filtered Y/N

- For TPH d, mo, mineral spirits soil samples: Use Silica gel cleanup
- For TPH d, mo water samples: Filter using 0.7 micron glass-fiber filter prior to analysis

## CHAIN OF CUSTODY RECORD

| Signature | Print Name | Company | Date/Time |
|---|---|---|---|
| Relinquished By (Signature): [signature] | Haely Young | AMEC | 10/26/11 @ 1615 |
| Received By (Signature): [signature] | Nhan Phan | FeBI | 10/27/11 0800 |
| Relinquished By (Signature) | | | |
| Received By (Signature): | | | |
| Relinquished By (Signature) | | | |
| Received By (Signature): | | | |

Method of Shipment:

Samples received at 2 °C

White - Laboratory Copy Yellow - Project Office Copy Pink - Field or Office Copy

F1008-E

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

November 17, 2011

Avery Patton, Project Manager
AMEC Geomatrix
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Ms. Patton:

Included are the amended results from the testing of material submitted on October 31, 2011 from the 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406 project. A qualifier has been added to the gas result.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
GMC1110R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

November 10, 2011

Avery Patton, Project Manager
AMEC Geomatrix
2101 Webster Street, 12th Floor
Oakland, CA 94612

Dear Ms. Patton:

Included are the results from the testing of material submitted on October 31, 2011 from the 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406 project. There are 16 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
GMC1110R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 31, 2011 by Friedman & Bruya, Inc. from the AMEC Geomatrix 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406 project. Samples were logged in under the laboratory ID's listed below.

| Laboratory ID | AMEC Geomatrix |
|---|---|
| 110406-01 | SUMP-EXB-Water-2-16 |
| 110406-02 | TB101311 |

The 8015M diesel method blank had a detection above the reporting limit. The data were flagged as due to laboratory contamination.

The 8260C vinyl chloride concentrations were flagged due to hydrochloric acid preservation per EPA SW-846 table 4-1.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406
Date Extracted: 10/31/11
Date Analyzed: 10/31/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING EPA METHOD 8015M**

Results Reported as ug/L (ppb)

| Sample ID<br>Laboratory ID | Gasoline Range<br>($C_6$-$C_{10}$) | Surrogate<br>(% Recovery)<br>(Limit 51-134) |
|---|---|---|
| SUMP-EXB-Water-2-16<br>110406-01 | 4,900 x J | 118 |
| Method Blank<br>01-1971 MB | <50 | 106 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406
Date Extracted: 11/03/11
Date Analyzed: 11/03/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING EPA METHOD 8015M**
**Samples Filtered Prior to Extraction**
Results Reported as ug/L (ppb)

| Sample ID<br>Laboratory ID | Diesel Range<br>($C_{10}$-$C_{25}$) | Surrogate<br>(% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXB-Water-2-16<br>110406-01 5/1 | 5,600 x J | 111 |
| Method Blank<br>01-1983 MB3 5/1 | 10 lc | 101 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406
Date Extracted: 11/03/11
Date Analyzed: 11/03/11

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL USING EPA METHOD 8015M**
**Samples Filtered Prior to Extraction**
Results Reported as ug/L (ppb)

| Sample ID<br>Laboratory ID | Motor Oil Range<br>($C_{25}$-$C_{36}$) | Surrogate<br>(% Recovery)<br>(Limit 50-150) |
|---|---|---|
| SUMP-EXB-Water-2-16<br>110406-01 | 64 x J | 112 |
| Method Blank<br>01-1983 MB3 | <50 | 92 |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SUMP-EXB-Water-2-16 | Client: | AMEC Geomatrix |
| Date Received: | 10/31/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/01/11 | Lab ID: | 110406-01 |
| Date Analyzed: | 11/01/11 | Data File: | 110114.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 100 | 63 | 127 |
| 4-Bromofluorobenzene | 95 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|---|---|
| Ethanol | <1,000 |
| Dichlorodifluoromethane | <1 |
| Chloromethane | <10 |
| Vinyl chloride | <0.2 pr |
| Bromomethane | <1 |
| Chloroethane | <1 |
| Trichlorofluoromethane | <1 |
| 2-Propanol | <10 |
| Acetone | 10 |
| 1,1-Dichloroethene | <1 |
| Hexane | <1 |
| Methylene chloride | <5 |
| t-Butyl alcohol (TBA) | <50 |
| Methyl t-butyl ether (MTBE) | <1 |
| trans-1,2-Dichloroethene | <1 |
| Diisopropyl ether (DIPE) | <1 |
| 1,1-Dichloroethane | <1 |
| Ethyl t-butyl ether (ETBE) | <1 |
| 2,2-Dichloropropane | <1 |
| cis-1,2-Dichloroethene | <1 |
| Chloroform | <1 |
| 2-Butanone (MEK) | <10 |
| t-Amyl methyl ether (TAME) | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| 1,1-Dichloropropene | <1 |
| Carbon tetrachloride | <1 |
| Benzene | 7.1 |
| Trichloroethene | <1 |
| 1,2-Dichloropropane | <1 |
| Bromodichloromethane | <1 |
| Dibromomethane | <1 |
| 4-Methyl-2-pentanone | <10 |
| cis-1,3-Dichloropropene | <1 |
| Toluene | <1 |

| Compounds: | Concentration ug/L (ppb) |
|---|---|
| trans-1,3-Dichloropropene | <1 |
| 1,1,2-Trichloroethane | <1 |
| 2-Hexanone | <10 |
| 1,3-Dichloropropane | <1 |
| Tetrachloroethene | 8.9 |
| Dibromochloromethane | <1 |
| 1,2-Dibromoethane (EDB) | <1 |
| Chlorobenzene | 1,800 ve R |
| Ethylbenzene | <1 |
| 1,1,1,2-Tetrachloroethane | <1 |
| m,p-Xylene | <2 |
| o-Xylene | <1 |
| Styrene | <1 |
| Isopropylbenzene | <1 |
| Bromoform | <1 |
| n-Propylbenzene | 1.3 |
| Bromobenzene | <1 |
| 1,3,5-Trimethylbenzene | 3.3 |
| 1,1,2,2-Tetrachloroethane | <1 |
| 1,2,3-Trichloropropane | <1 |
| 2-Chlorotoluene | <1 |
| 4-Chlorotoluene | <1 |
| tert-Butylbenzene | <1 |
| 1,2,4-Trimethylbenzene | 9.1 |
| sec-Butylbenzene | <1 |
| p-Isopropyltoluene | <1 |
| 1,3-Dichlorobenzene | 4.0 |
| 1,4-Dichlorobenzene | 130 |
| 1,2-Dichlorobenzene | 4,200 ve R |
| 1,2-Dibromo-3-chloropropane | <10 |
| 1,2,4-Trichlorobenzene | 5.1 |
| Hexachlorobutadiene | <1 |
| Naphthalene | <1 |
| 1,2,3-Trichlorobenzene | <1 |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | SUMP-EXB-Water-2-16 | Client: | AMEC Geomatrix |
| Date Received: | 10/31/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/02/11 | Lab ID: | 110406-01 1/1000 |
| Date Analyzed: | 11/02/11 | Data File: | 110213.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 100 | 63 | 127 |
| 4-Bromofluorobenzene | 102 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|---|---|
| Dichlorodifluoromethane | <1,000 R |
| Chloromethane | <10,000 |
| Vinyl chloride | <200 pr |
| Bromomethane | <1,000 |
| Chloroethane | <1,000 |
| Trichlorofluoromethane | <1,000 |
| Acetone | <10,000 |
| 1,1-Dichloroethene | <1,000 |
| Methylene chloride | <5,000 |
| Methyl t-butyl ether (MTBE) | <1,000 |
| trans-1,2-Dichloroethene | <1,000 |
| 1,1-Dichloroethane | <1,000 |
| 2,2-Dichloropropane | <1,000 |
| cis-1,2-Dichloroethene | <1,000 |
| Chloroform | <1,000 |
| 2-Butanone (MEK) | <10,000 |
| 1,2-Dichloroethane (EDC) | <1,000 |
| 1,1,1-Trichloroethane | <1,000 |
| 1,1-Dichloropropene | <1,000 |
| Carbon tetrachloride | <1,000 |
| Benzene | <350 |
| Trichloroethene | <1,000 |
| 1,2-Dichloropropane | <1,000 |
| Bromodichloromethane | <1,000 |
| Dibromomethane | <1,000 |
| 4-Methyl-2-pentanone | <10,000 |
| cis-1,3-Dichloropropene | <1,000 |
| Toluene | <1,000 |
| trans-1,3-Dichloropropene | <1,000 |
| 1,1,2-Trichloroethane | <1,000 |
| 2-Hexanone | <10,000 |

| Compounds: | Concentration ug/L (ppb) |
|---|---|
| 1,3-Dichloropropane | <1,000 R |
| Tetrachloroethene | <1,000 |
| Dibromochloromethane | <1,000 |
| 1,2-Dibromoethane (EDB) | <1,000 |
| Chlorobenzene | 2,100 |
| Ethylbenzene | <1,000 R |
| 1,1,1,2-Tetrachloroethane | <1,000 |
| m,p-Xylene | <2,000 |
| o-Xylene | <1,000 |
| Styrene | <1,000 |
| Isopropylbenzene | <1,000 |
| Bromoform | <1,000 |
| n-Propylbenzene | <1,000 |
| Bromobenzene | <1,000 |
| 1,3,5-Trimethylbenzene | <1,000 |
| 1,1,2,2-Tetrachloroethane | <1,000 |
| 1,2,3-Trichloropropane | <1,000 |
| 2-Chlorotoluene | <1,000 |
| 4-Chlorotoluene | <1,000 |
| tert-Butylbenzene | <1,000 |
| 1,2,4-Trimethylbenzene | <1,000 |
| sec-Butylbenzene | <1,000 |
| p-Isopropyltoluene | <1,000 |
| 1,3-Dichlorobenzene | <1,000 |
| 1,4-Dichlorobenzene | <1,000 |
| 1,2-Dichlorobenzene | 11,000 |
| 1,2-Dibromo-3-chloropropane | <10,000 R |
| 1,2,4-Trichlorobenzene | <1,000 |
| Hexachlorobutadiene | <1,000 |
| Naphthalene | <1,000 |
| 1,2,3-Trichlorobenzene | <1,000 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | TB101311 | Client: | AMEC Geomatrix |
| Date Received: | 10/31/11 | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/01/11 | Lab ID: | 110406-02 |
| Date Analyzed: | 11/01/11 | Data File: | 110109.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 57 | 121 |
| Toluene-d8 | 99 | 63 | 127 |
| 4-Bromofluorobenzene | 104 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|---|---|---|---|
| Ethanol | <1,000 | trans-1,3-Dichloropropene | <1 |
| Dichlorodifluoromethane | <1 | 1,1,2-Trichloroethane | <1 |
| Chloromethane | <10 | 2-Hexanone | <10 |
| Vinyl chloride | <0.2 pr | 1,3-Dichloropropane | <1 |
| Bromomethane | <1 | Tetrachloroethene | <1 |
| Chloroethane | <1 | Dibromochloromethane | <1 |
| Trichlorofluoromethane | <1 | 1,2-Dibromoethane (EDB) | <1 |
| 2-Propanol | <10 | Chlorobenzene | <1 |
| Acetone | <10 | Ethylbenzene | <1 |
| 1,1-Dichloroethene | <1 | 1,1,1,2-Tetrachloroethane | <1 |
| Hexane | <1 | m,p-Xylene | <2 |
| Methylene chloride | <5 | o-Xylene | <1 |
| t-Butyl alcohol (TBA) | <50 | Styrene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Isopropylbenzene | <1 |
| trans-1,2-Dichloroethene | <1 | Bromoform | <1 |
| Diisopropyl ether (DIPE) | <1 | n-Propylbenzene | <1 |
| 1,1-Dichloroethane | <1 | Bromobenzene | <1 |
| Ethyl t-butyl ether (ETBE) | <1 | 1,3,5-Trimethylbenzene | <1 |
| 2,2-Dichloropropane | <1 | 1,1,2,2-Tetrachloroethane | <1 |
| cis-1,2-Dichloroethene | <1 | 1,2,3-Trichloropropane | <1 |
| Chloroform | <1 | 2-Chlorotoluene | <1 |
| 2-Butanone (MEK) | <10 | 4-Chlorotoluene | <1 |
| t-Amyl methyl ether (TAME) | <1 | tert-Butylbenzene | <1 |
| 1,2-Dichloroethane (EDC) | <1 | 1,2,4-Trimethylbenzene | <1 |
| 1,1,1-Trichloroethane | <1 | sec-Butylbenzene | <1 |
| 1,1-Dichloropropene | <1 | p-Isopropyltoluene | <1 |
| Carbon tetrachloride | <1 | 1,3-Dichlorobenzene | <1 |
| Benzene | <0.35 | 1,4-Dichlorobenzene | <1 |
| Trichloroethene | <1 | 1,2-Dichlorobenzene | <1 |
| 1,2-Dichloropropane | <1 | 1,2-Dibromo-3-chloropropane | <10 |
| Bromodichloromethane | <1 | 1,2,4-Trichlorobenzene | <1 |
| Dibromomethane | <1 | Hexachlorobutadiene | <1 |
| 4-Methyl-2-pentanone | <10 | Naphthalene | <1 |
| cis-1,3-Dichloropropene | <1 | 1,2,3-Trichlorobenzene | <1 |
| Toluene | <1 | | |

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | Method Blank | Client: | AMEC Geomatrix |
| Date Received: | NA | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/01/11 | Lab ID: | 01-1936 mb |
| Date Analyzed: | 11/01/11 | Data File: | 110107.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 57 | 121 |
| Toluene-d8 | 98 | 63 | 127 |
| 4-Bromofluorobenzene | 103 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) |
|---|---|
| Ethanol | <1,000 |
| Dichlorodifluoromethane | <1 |
| Chloromethane | <10 |
| Vinyl chloride | <0.2 |
| Bromomethane | <1 |
| Chloroethane | <1 |
| Trichlorofluoromethane | <1 |
| 2-Propanol | <10 |
| Acetone | <10 |
| 1,1-Dichloroethene | <1 |
| Hexane | <1 |
| Methylene chloride | <5 |
| t-Butyl alcohol (TBA) | <50 |
| Methyl t-butyl ether (MTBE) | <1 |
| trans-1,2-Dichloroethene | <1 |
| Diisopropyl ether (DIPE) | <1 |
| 1,1-Dichloroethane | <1 |
| Ethyl t-butyl ether (ETBE) | <1 |
| 2,2-Dichloropropane | <1 |
| cis-1,2-Dichloroethene | <1 |
| Chloroform | <1 |
| 2-Butanone (MEK) | <10 |
| t-Amyl methyl ether (TAME) | <1 |
| 1,2-Dichloroethane (EDC) | <1 |
| 1,1,1-Trichloroethane | <1 |
| 1,1-Dichloropropene | <1 |
| Carbon tetrachloride | <1 |
| Benzene | <0.35 |
| Trichloroethene | <1 |
| 1,2-Dichloropropane | <1 |
| Bromodichloromethane | <1 |
| Dibromomethane | <1 |
| 4-Methyl-2-pentanone | <10 |
| cis-1,3-Dichloropropene | <1 |
| Toluene | <1 |

| Compounds: | Concentration ug/L (ppb) |
|---|---|
| trans-1,3-Dichloropropene | <1 |
| 1,1,2-Trichloroethane | <1 |
| 2-Hexanone | <10 |
| 1,3-Dichloropropane | <1 |
| Tetrachloroethene | <1 |
| Dibromochloromethane | <1 |
| 1,2-Dibromoethane (EDB) | <1 |
| Chlorobenzene | <1 |
| Ethylbenzene | <1 |
| 1,1,1,2-Tetrachloroethane | <1 |
| m,p-Xylene | <2 |
| o-Xylene | <1 |
| Styrene | <1 |
| Isopropylbenzene | <1 |
| Bromoform | <1 |
| n-Propylbenzene | <1 |
| Bromobenzene | <1 |
| 1,3,5-Trimethylbenzene | <1 |
| 1,1,2,2-Tetrachloroethane | <1 |
| 1,2,3-Trichloropropane | <1 |
| 2-Chlorotoluene | <1 |
| 4-Chlorotoluene | <1 |
| tert-Butylbenzene | <1 |
| 1,2,4-Trimethylbenzene | <1 |
| sec-Butylbenzene | <1 |
| p-Isopropyltoluene | <1 |
| 1,3-Dichlorobenzene | <1 |
| 1,4-Dichlorobenzene | <1 |
| 1,2-Dichlorobenzene | <1 |
| 1,2-Dibromo-3-chloropropane | <10 |
| 1,2,4-Trichlorobenzene | <1 |
| Hexachlorobutadiene | <1 |
| Naphthalene | <1 |
| 1,2,3-Trichlorobenzene | <1 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

| | | | |
|---|---|---|---|
| Client Sample ID: | Method Blank | Client: | AMEC Geomatrix |
| Date Received: | NA | Project: | 0D10160070.00005 Crown Chevrolet |
| Date Extracted: | 11/02/11 | Lab ID: | 01-1938 mb |
| Date Analyzed: | 11/02/11 | Data File: | 110207.D |
| Matrix: | Water | Instrument: | GCMS4 |
| Units: | ug/L (ppb) | Operator: | VM |

| Surrogates: | % Recovery: | Lower Limit: | Upper Limit: |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 57 | 121 |
| Toluene-d8 | 99 | 63 | 127 |
| 4-Bromofluorobenzene | 103 | 60 | 133 |

| Compounds: | Concentration ug/L (ppb) | Compounds: | Concentration ug/L (ppb) |
|---|---|---|---|
| Dichlorodifluoromethane | <1 | 1,3-Dichloropropane | <1 |
| Chloromethane | <10 | Tetrachloroethene | <1 |
| Vinyl chloride | <0.2 | Dibromochloromethane | <1 |
| Bromomethane | <1 | 1,2-Dibromoethane (EDB) | <1 |
| Chloroethane | <1 | Chlorobenzene | <1 |
| Trichlorofluoromethane | <1 | Ethylbenzene | <1 |
| Acetone | <10 | 1,1,1,2-Tetrachloroethane | <1 |
| 1,1-Dichloroethene | <1 | m,p-Xylene | <2 |
| Methylene chloride | <5 | o-Xylene | <1 |
| Methyl t-butyl ether (MTBE) | <1 | Styrene | <1 |
| trans-1,2-Dichloroethene | <1 | Isopropylbenzene | <1 |
| 1,1-Dichloroethane | <1 | Bromoform | <1 |
| 2,2-Dichloropropane | <1 | n-Propylbenzene | <1 |
| cis-1,2-Dichloroethene | <1 | Bromobenzene | <1 |
| Chloroform | <1 | 1,3,5-Trimethylbenzene | <1 |
| 2-Butanone (MEK) | <10 | 1,1,2,2-Tetrachloroethane | <1 |
| 1,2-Dichloroethane (EDC) | <1 | 1,2,3-Trichloropropane | <1 |
| 1,1,1-Trichloroethane | <1 | 2-Chlorotoluene | <1 |
| 1,1-Dichloropropene | <1 | 4-Chlorotoluene | <1 |
| Carbon tetrachloride | <1 | tert-Butylbenzene | <1 |
| Benzene | <0.35 | 1,2,4-Trimethylbenzene | <1 |
| Trichloroethene | <1 | sec-Butylbenzene | <1 |
| 1,2-Dichloropropane | <1 | p-Isopropyltoluene | <1 |
| Bromodichloromethane | <1 | 1,3-Dichlorobenzene | <1 |
| Dibromomethane | <1 | 1,4-Dichlorobenzene | <1 |
| 4-Methyl-2-pentanone | <10 | 1,2-Dichlorobenzene | <1 |
| cis-1,3-Dichloropropene | <1 | 1,2-Dibromo-3-chloropropane | <10 |
| Toluene | <1 | 1,2,4-Trichlorobenzene | <1 |
| trans-1,3-Dichloropropene | <1 | Hexachlorobutadiene | <1 |
| 1,1,2-Trichloroethane | <1 | Naphthalene | <1 |
| 2-Hexanone | <10 | 1,2,3-Trichlorobenzene | <1 |

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING EPA METHOD 8015M

Laboratory Code: 110390-12 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference (Limit 20) |
|---|---|---|---|---|
| Gasoline | ug/L (ppb) | <50 | <50 | nm |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|---|---|---|---|---|
| Gasoline | ug/L (ppb) | 1,000 | 99 | 69-134 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL USING EPA METHOD 8015M

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Diesel | ug/L (ppb) | 2,500 | 100 | 91 | 63-142 | 9 |

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406

## QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL USING EPA METHOD 8015M

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Motor Oil | ug/L (ppb) | 2,500 | 84 | 89 | 70-130 | 6 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 110397-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Acceptance Criteria |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L (ppb) | 50 | <10 | 109 | 10-172 |
| Chloromethane | ug/L (ppb) | 50 | <10 | 99 | 25-166 |
| Vinyl chloride | ug/L (ppb) | 50 | <0.2 | 109 | 36-166 |
| Bromomethane | ug/L (ppb) | 50 | <1 | 95 | 47-169 |
| Chloroethane | ug/L (ppb) | 50 | <1 | 104 | 46-160 |
| Trichlorofluoromethane | ug/L (ppb) | 50 | <1 | 103 | 44-165 |
| Acetone | ug/L (ppb) | 250 | <10 | 100 | 10-182 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | <1 | 98 | 60-136 |
| Methylene chloride | ug/L (ppb) | 50 | <5 | 95 | 67-132 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 50 | <1 | 98 | 74-127 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 98 | 72-129 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | <1 | 98 | 70-128 |
| 2,2-Dichloropropane | ug/L (ppb) | 50 | <1 | 93 | 36-154 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | <1 | 99 | 71-127 |
| Chloroform | ug/L (ppb) | 50 | <1 | 98 | 65-132 |
| 2-Butanone (MEK) | ug/L (ppb) | 250 | <10 | 99 | 10-129 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | <1 | 96 | 69-133 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | <1 | 102 | 60-146 |
| 1,1-Dichloropropene | ug/L (ppb) | 50 | <1 | 102 | 69-133 |
| Carbon tetrachloride | ug/L (ppb) | 50 | <1 | 104 | 56-152 |
| Benzene | ug/L (ppb) | 50 | <0.35 | 100 | 76-125 |
| Trichloroethene | ug/L (ppb) | 50 | <1 | 97 | 66-135 |
| 1,2-Dichloropropane | ug/L (ppb) | 50 | <1 | 100 | 78-125 |
| Bromodichloromethane | ug/L (ppb) | 50 | <1 | 104 | 61-150 |
| Dibromomethane | ug/L (ppb) | 50 | <1 | 98 | 66-141 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 250 | <10 | 100 | 10-185 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 50 | <1 | 101 | 72-132 |
| Toluene | ug/L (ppb) | 50 | <1 | 98 | 76-122 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 50 | <1 | 103 | 76-130 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 50 | <1 | 98 | 68-131 |
| 2-Hexanone | ug/L (ppb) | 250 | <10 | 101 | 10-185 |
| 1,3-Dichloropropane | ug/L (ppb) | 50 | <1 | 99 | 71-128 |
| Tetrachloroethene | ug/L (ppb) | 50 | <1 | 101 | 73-129 |
| Dibromochloromethane | ug/L (ppb) | 50 | <1 | 104 | 70-139 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 50 | <1 | 100 | 69-134 |
| Chlorobenzene | ug/L (ppb) | 50 | <1 | 97 | 77-122 |
| Ethylbenzene | ug/L (ppb) | 50 | <1 | 100 | 69-135 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 50 | <1 | 105 | 73-137 |
| m,p-Xylene | ug/L (ppb) | 100 | <2 | 101 | 69-135 |
| o-Xylene | ug/L (ppb) | 50 | <1 | 104 | 68-137 |
| Styrene | ug/L (ppb) | 50 | <1 | 103 | 71-133 |
| Isopropylbenzene | ug/L (ppb) | 50 | <1 | 102 | 65-142 |
| Bromoform | ug/L (ppb) | 50 | <1 | 107 | 65-142 |
| n-Propylbenzene | ug/L (ppb) | 50 | <1 | 101 | 58-144 |
| Bromobenzene | ug/L (ppb) | 50 | <1 | 98 | 75-124 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 50 | <1 | 102 | 66-137 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 50 | <1 | 99 | 51-154 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 50 | <1 | 97 | 53-150 |
| 2-Chlorotoluene | ug/L (ppb) | 50 | <1 | 100 | 66-127 |
| 4-Chlorotoluene | ug/L (ppb) | 50 | <1 | 100 | 65-130 |
| tert-Butylbenzene | ug/L (ppb) | 50 | <1 | 104 | 65-137 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 50 | <1 | 102 | 59-146 |
| sec-Butylbenzene | ug/L (ppb) | 50 | <1 | 102 | 64-140 |
| p-Isopropyltoluene | ug/L (ppb) | 50 | <1 | 103 | 65-141 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 50 | <1 | 97 | 72-123 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 50 | <1 | 95 | 69-126 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 50 | <1 | 100 | 69-128 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 50 | <10 | 100 | 32-164 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 50 | <1 | 102 | 76-132 |
| Hexachlorobutadiene | ug/L (ppb) | 50 | <1 | 96 | 60-143 |
| Naphthalene | ug/L (ppb) | 50 | <1 | 100 | 44-164 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 50 | <1 | 103 | 69-148 |

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406

# QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L (ppb) | 50 | 117 | 112 | 25-158 | 4 |
| Chloromethane | ug/L (ppb) | 50 | 99 | 97 | 45-156 | 2 |
| Vinyl chloride | ug/L (ppb) | 50 | 114 | 110 | 50-154 | 4 |
| Bromomethane | ug/L (ppb) | 50 | 97 | 97 | 55-143 | 0 |
| Chloroethane | ug/L (ppb) | 50 | 110 | 108 | 58-146 | 2 |
| Trichlorofluoromethane | ug/L (ppb) | 50 | 102 | 100 | 50-150 | 2 |
| Acetone | ug/L (ppb) | 250 | 98 | 96 | 60-155 | 2 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 101 | 99 | 67-136 | 2 |
| Methylene chloride | ug/L (ppb) | 50 | 90 | 90 | 39-148 | 0 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 50 | 101 | 101 | 64-147 | 0 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 97 | 97 | 68-128 | 0 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 98 | 98 | 79-121 | 0 |
| 2,2-Dichloropropane | ug/L (ppb) | 50 | 128 | 121 | 55-143 | 6 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 103 | 101 | 80-123 | 2 |
| Chloroform | ug/L (ppb) | 50 | 99 | 99 | 80-121 | 0 |
| 2-Butanone (MEK) | ug/L (ppb) | 250 | 102 | 101 | 57-149 | 1 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 95 | 95 | 73-132 | 0 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 107 | 106 | 83-130 | 1 |
| 1,1-Dichloropropene | ug/L (ppb) | 50 | 104 | 104 | 77-129 | 0 |
| Carbon tetrachloride | ug/L (ppb) | 50 | 110 | 110 | 75-158 | 0 |
| Benzene | ug/L (ppb) | 50 | 102 | 101 | 69-134 | 1 |
| Trichloroethene | ug/L (ppb) | 50 | 99 | 98 | 80-120 | 1 |
| 1,2-Dichloropropane | ug/L (ppb) | 50 | 101 | 101 | 77-123 | 0 |
| Bromodichloromethane | ug/L (ppb) | 50 | 107 | 108 | 81-133 | 1 |
| Dibromomethane | ug/L (ppb) | 50 | 99 | 98 | 82-125 | 1 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 250 | 104 | 102 | 70-140 | 2 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 50 | 110 | 110 | 82-132 | 0 |
| Toluene | ug/L (ppb) | 50 | 101 | 101 | 72-122 | 0 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 50 | 111 | 110 | 80-136 | 1 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 50 | 101 | 100 | 75-124 | 1 |
| 2-Hexanone | ug/L (ppb) | 250 | 101 | 100 | 64-152 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 50 | 101 | 101 | 76-126 | 0 |
| Tetrachloroethene | ug/L (ppb) | 50 | 108 | 108 | 76-121 | 0 |
| Dibromochloromethane | ug/L (ppb) | 50 | 108 | 108 | 84-133 | 0 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 50 | 102 | 103 | 82-125 | 1 |
| Chlorobenzene | ug/L (ppb) | 50 | 99 | 98 | 83-114 | 1 |
| Ethylbenzene | ug/L (ppb) | 50 | 102 | 102 | 77-124 | 0 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 50 | 107 | 108 | 84-127 | 1 |
| m,p-Xylene | ug/L (ppb) | 100 | 104 | 104 | 83-125 | 0 |
| o-Xylene | ug/L (ppb) | 50 | 107 | 107 | 86-121 | 0 |
| Styrene | ug/L (ppb) | 50 | 107 | 106 | 85-127 | 1 |
| Isopropylbenzene | ug/L (ppb) | 50 | 106 | 105 | 87-122 | 1 |
| Bromoform | ug/L (ppb) | 50 | 111 | 111 | 74-136 | 0 |
| n-Propylbenzene | ug/L (ppb) | 50 | 104 | 104 | 74-126 | 0 |
| Bromobenzene | ug/L (ppb) | 50 | 101 | 102 | 80-121 | 1 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 80-126 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 50 | 100 | 100 | 66-126 | 0 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 50 | 98 | 97 | 67-124 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 50 | 103 | 103 | 77-127 | 0 |
| 4-Chlorotoluene | ug/L (ppb) | 50 | 102 | 103 | 78-128 | 1 |
| tert-Butylbenzene | ug/L (ppb) | 50 | 106 | 106 | 85-127 | 0 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 82-125 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 50 | 105 | 105 | 80-125 | 0 |
| p-Isopropyltoluene | ug/L (ppb) | 50 | 108 | 107 | 82-127 | 1 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 50 | 101 | 101 | 85-116 | 0 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 50 | 99 | 98 | 84-121 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 50 | 103 | 102 | 85-116 | 1 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 50 | 106 | 103 | 57-141 | 3 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 50 | 109 | 108 | 72-130 | 1 |
| Hexachlorobutadiene | ug/L (ppb) | 50 | 104 | 103 | 53-141 | 1 |
| Naphthalene | ug/L (ppb) | 50 | 103 | 103 | 64-133 | 0 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 50 | 107 | 107 | 65-136 | 0 |

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/11
Date Received: 10/31/11
Project: 0D10160070.00005 Crown Chevrolet Sump Excavation, Dublin CA, F&BI 110406

# QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Percent Recovery LCSD | Acceptance Criteria | RPD (Limit 20) |
|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ug/L (ppb) | 50 | 113 | 115 | 25-158 | 2 |
| Chloromethane | ug/L (ppb) | 50 | 100 | 101 | 45-156 | 1 |
| Vinyl chloride | ug/L (ppb) | 50 | 111 | 112 | 50-154 | 1 |
| Bromomethane | ug/L (ppb) | 50 | 97 | 99 | 55-143 | 2 |
| Chloroethane | ug/L (ppb) | 50 | 109 | 110 | 58-146 | 1 |
| Trichlorofluoromethane | ug/L (ppb) | 50 | 102 | 106 | 50-150 | 4 |
| Acetone | ug/L (ppb) | 250 | 102 | 102 | 60-155 | 0 |
| 1,1-Dichloroethene | ug/L (ppb) | 50 | 101 | 104 | 67-136 | 3 |
| Methylene chloride | ug/L (ppb) | 50 | 92 | 94 | 39-148 | 2 |
| Methyl t-butyl ether (MTBE) | ug/L (ppb) | 50 | 102 | 101 | 64-147 | 1 |
| trans-1,2-Dichloroethene | ug/L (ppb) | 50 | 98 | 100 | 68-128 | 2 |
| 1,1-Dichloroethane | ug/L (ppb) | 50 | 100 | 101 | 79-121 | 1 |
| 2,2-Dichloropropane | ug/L (ppb) | 50 | 111 | 119 | 55-143 | 7 |
| cis-1,2-Dichloroethene | ug/L (ppb) | 50 | 102 | 105 | 80-123 | 3 |
| Chloroform | ug/L (ppb) | 50 | 100 | 101 | 80-121 | 1 |
| 2-Butanone (MEK) | ug/L (ppb) | 250 | 102 | 103 | 57-149 | 1 |
| 1,2-Dichloroethane (EDC) | ug/L (ppb) | 50 | 98 | 98 | 73-132 | 0 |
| 1,1,1-Trichloroethane | ug/L (ppb) | 50 | 105 | 107 | 83-130 | 2 |
| 1,1-Dichloropropene | ug/L (ppb) | 50 | 104 | 106 | 77-129 | 2 |
| Carbon tetrachloride | ug/L (ppb) | 50 | 111 | 112 | 75-158 | 1 |
| Benzene | ug/L (ppb) | 50 | 102 | 104 | 69-134 | 2 |
| Trichloroethene | ug/L (ppb) | 50 | 99 | 101 | 80-120 | 2 |
| 1,2-Dichloropropane | ug/L (ppb) | 50 | 102 | 104 | 77-123 | 2 |
| Bromodichloromethane | ug/L (ppb) | 50 | 107 | 109 | 81-133 | 2 |
| Dibromomethane | ug/L (ppb) | 50 | 100 | 102 | 82-125 | 2 |
| 4-Methyl-2-pentanone | ug/L (ppb) | 250 | 103 | 104 | 70-140 | 1 |
| cis-1,3-Dichloropropene | ug/L (ppb) | 50 | 109 | 112 | 82-132 | 3 |
| Toluene | ug/L (ppb) | 50 | 102 | 102 | 72-122 | 0 |
| trans-1,3-Dichloropropene | ug/L (ppb) | 50 | 111 | 111 | 80-136 | 0 |
| 1,1,2-Trichloroethane | ug/L (ppb) | 50 | 101 | 102 | 75-124 | 1 |
| 2-Hexanone | ug/L (ppb) | 250 | 104 | 103 | 64-152 | 1 |
| 1,3-Dichloropropane | ug/L (ppb) | 50 | 102 | 103 | 76-126 | 1 |
| Tetrachloroethene | ug/L (ppb) | 50 | 106 | 108 | 76-121 | 2 |
| Dibromochloromethane | ug/L (ppb) | 50 | 108 | 109 | 84-133 | 1 |
| 1,2-Dibromoethane (EDB) | ug/L (ppb) | 50 | 103 | 104 | 82-125 | 1 |
| Chlorobenzene | ug/L (ppb) | 50 | 99 | 100 | 83-114 | 1 |
| Ethylbenzene | ug/L (ppb) | 50 | 102 | 103 | 77-124 | 1 |
| 1,1,1,2-Tetrachloroethane | ug/L (ppb) | 50 | 107 | 109 | 84-127 | 2 |
| m,p-Xylene | ug/L (ppb) | 100 | 103 | 104 | 83-125 | 1 |
| o-Xylene | ug/L (ppb) | 50 | 107 | 108 | 86-121 | 1 |
| Styrene | ug/L (ppb) | 50 | 107 | 107 | 85-127 | 0 |
| Isopropylbenzene | ug/L (ppb) | 50 | 106 | 106 | 87-122 | 0 |
| Bromoform | ug/L (ppb) | 50 | 111 | 112 | 74-136 | 1 |
| n-Propylbenzene | ug/L (ppb) | 50 | 104 | 105 | 74-126 | 1 |
| Bromobenzene | ug/L (ppb) | 50 | 101 | 101 | 80-121 | 0 |
| 1,3,5-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 80-126 | 0 |
| 1,1,2,2-Tetrachloroethane | ug/L (ppb) | 50 | 102 | 102 | 66-126 | 0 |
| 1,2,3-Trichloropropane | ug/L (ppb) | 50 | 99 | 98 | 67-124 | 1 |
| 2-Chlorotoluene | ug/L (ppb) | 50 | 103 | 103 | 77-127 | 0 |
| 4-Chlorotoluene | ug/L (ppb) | 50 | 103 | 103 | 78-128 | 0 |
| tert-Butylbenzene | ug/L (ppb) | 50 | 107 | 107 | 85-127 | 0 |
| 1,2,4-Trimethylbenzene | ug/L (ppb) | 50 | 106 | 106 | 82-125 | 0 |
| sec-Butylbenzene | ug/L (ppb) | 50 | 105 | 106 | 80-125 | 1 |
| p-Isopropyltoluene | ug/L (ppb) | 50 | 108 | 108 | 82-127 | 0 |
| 1,3-Dichlorobenzene | ug/L (ppb) | 50 | 101 | 101 | 85-116 | 0 |
| 1,4-Dichlorobenzene | ug/L (ppb) | 50 | 99 | 100 | 84-121 | 1 |
| 1,2-Dichlorobenzene | ug/L (ppb) | 50 | 102 | 103 | 85-116 | 1 |
| 1,2-Dibromo-3-chloropropane | ug/L (ppb) | 50 | 104 | 106 | 57-141 | 2 |
| 1,2,4-Trichlorobenzene | ug/L (ppb) | 50 | 107 | 109 | 72-130 | 2 |
| Hexachlorobutadiene | ug/L (ppb) | 50 | 101 | 102 | 53-141 | 1 |
| Naphthalene | ug/L (ppb) | 50 | 103 | 104 | 64-133 | 1 |
| 1,2,3-Trichlorobenzene | ug/L (ppb) | 50 | 106 | 107 | 65-136 | 1 |

# Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

~~110406~~ ~~Seq. No.~~ 1043

Lab: Friedman & Bruya, Inc

1465 North McDowell Blvd.
Suite 200
Petaluma, CA 94954
(707) 793-3800

# CHAIN OF CUSTODY FORM

MP 10/31/11 V2/D02

amec

Samplers: Haely Young

Job Number: OD10160070.00005

Name/Location: Crown Chevrolet Sump Excavation, Dublin CA

Project Manager: Avery Patton

Recorder: [signature] (Signature Required)

| MATRIX: Water | Soil | Air | # CONTAINERS: Unpres. | H2SO4 | HNO3 | HCL | SAMPLE NUMBER | DATE: YR | MO | DAY | TIME | STATION DESCRIPTION | DEPTH | ANALYSIS REQUESTED: 8260B (VOCs) | 8270 | TITLE 22 METALS | TPHg (8260B) | TPHd/mo (8015) *Filter using 0.7 micron glass-fiber filter | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X | * | | 2 | | | 3 | Sump-EXB-Water-2-16 | 11 | 10 | 28 | 1230 | | | X | | | X | X | 01 A-E |
| X | | | | | | 1 | TB101311 | 11 | 10 | 28 | 1300 | | | X | | | | | 02 |

## ADDITIONAL INFORMATION

REPORT TO: Avery Patton

PO#:

TAT: Standard

Comments: Field Filtered Y/N

* Filter sample # Sump-EXB-Water-2-16 using a 0.7 micron glass-fiber filter prior to 8015 analysis.

AMEC
2101 Webster St, 12th Floor
Oakland, CA 94612
(510) 663-4153

## CHAIN OF CUSTODY RECORD

| Relinquished By (Signature) | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | Haely Young | AMEC | 10/28/11 @ 1446 |

| Received By (Signature): | (Print Name) | (Company) | (Date/Time) |
|---|---|---|---|
| [signature] | Nhan Phan | FeBT | 10/31/11 1415 |

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Relinquished By (Signature) (Print Name) (Company) (Date/Time)

Received By (Signature): (Print Name) (Company) (Date/Time)

Method of Shipment:

Samples received at 2 °C