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Mr. Gabe Stivala, P.G  
Cardno ATC  
701 University Drive Suite 701  
Sacramento, CA 95825

**Subject: Data Gap Assessment Report  
Alameda County LOP No. RO 3047  
Cardno ATC Project No. 75.75354.0002**

Dear Mr. Stivala:

I have reviewed and approved the subject report. Please submit it to the regulatory agencies listed in the distribution section of the report. Should any of the agencies require it, I am prepared to declare, under penalty of perjury, that to the best of my knowledge, the information contained in the report is true and correct.

Sincerely,



Charles Gurney

Weingarten Realty Investors

2600 Citadel Plaza Drive, Suite 300

Houston, Texas 77008

Date:

3/27/14

## **DATA GAP ASSESSMENT REPORT**

**580 Market Place Shopping Center  
3735–4065 East Castro Valley Boulevard  
Castro Valley, California**

ACEDH Case No. RO0003097

**Submitted to:**

Ms. Karel Detterman  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**Prepared on Behalf of:**

Mr. Charles Gurney  
Weingarten Realty Investors  
2600 Citadel Plaza Drive, Suite 300  
Houston, Texas 77008

**Submitted by:**

Cardno ATC  
701 University Drive, Suite 200  
Sacramento, California 95825

Cardno ATC Project No. 075.75354.0002

March 27, 2014

## CERTIFICATION\*

Information, conclusions, and recommendations contained in this *Data Gap Assessment Report* were prepared under the supervision of Cardno ATC California Professional Geologist.

Prepared by:



Scott Perkins  
Project Manager

Reviewed by:



Gabe Stivala, P.G.  
Senior Geologist

\* A professional geologist's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.

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## 1.0 INTRODUCTION

On behalf of Weingarten Realty Investors (Weingarten), Cardno ATC (Cardno) has prepared this report to summarize the data gap assessment performed at the 580 Market Place Shopping Center in January and February 2014. The work was performed in general accordance with scope of work outlined in Cardno's *Revised Data Gap Work Plan* dated November 6, 2013.

The scope of work performed included collection of sub-slab vapor samples from inside the Dryclean 580 building, collection of shallow soil vapor samples from the behind the Dryclean 580 facility, advancement of a Membrane Interface Probe (MIP) at select locations and the collection of soil samples from select locations and depths. Additionally, Cardno conducted a sensitive receptor study to identify potential receptors within a 2,000-foot radius of the site. Note that Cardno did not implement the following items originally proposed in the work plan scope:

- Installation of a semi-permanent soil vapor monitoring points outside of the drycleaner
- Indoor air survey

This portion of the scope was not completed based on results of the soil vapor and soil assessment Cardno feels the need for these scope items is not necessary at this time. This is further discussed in the conclusions and recommendations section of this report.

## 2.0 SITE LOCATION

The site is in a shopping center located north of Interstate 580, southeast of Castro Valley Boulevard, and west of Chaparral Lane in the city of Castro Valley, California, as shown on **Figure 1**. An extended site plan illustrating the layout of the shopping center is shown on **Figure 2**. A site plan illustrating the study area with dry cleaner features is shown on **Figure 3**.

### 2.1 Land Usage

The property and surrounding area was used as agricultural land with the rural residential developments prior to 1990. Current land use is commercial within the 580 Market Place Shopping Center surrounded by residential developments. Drycleaner 580 has operated at 3937 East Castro Valley Boulevard since 1990. In the past, dry cleaning was performed using tetrachloroethene (PCE). Dry cleaning is still performed at the site, however, PCE is no longer used. Current dry cleaning is performed using a hydrocarbon based solvent.

### 2.2 Background

#### 1994 CET Phase I ESA

In February 1994, Certified Engineering and Testing Co. (CET) conducted a Phase I Environmental Site Assessment of the subject property. CET's assessment found no significant onsite or offsite environmental concerns that they believed would affect the subject property.

### **1996 SEG Phase I Environmental Assessment Update**

In October 1996, Smith-Emery GeoServices, Inc. (SEG) performed a Phase I Environmental Site Assessment Update of the subject site. SEG concluded the subject property was unlikely to have been impacted by onsite activities or by activities on properties in the immediate vicinity. SEG concluded a Phase II Environmental Site Assessment was not warranted.

### **1996 SEG Environmental Soil Sampling**

In October 1996, SEG completed three soil borings and collected soil samples to evaluate the presence of PCE in the subsurface beneath Dryclean 580. One hand auger boring was completed near the dry-cleaning unit, and two borings were completed outside near the rear of the building. Samples were collected from depths ranging from 2 to 20 feet bgs. The results of analysis of the soil samples indicated the presence of PCE at 23 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ) at a depth of 2 feet bgs near the dry-cleaning unit. PCE was not detected in a deeper sample collected from this boring. PCE was also detected at 23  $\mu\text{g}/\text{kg}$  at a depth of 2.5 feet bgs near the rear of the building; however, PCE was not detected in three deeper samples collected from this boring at 10, 15 and 20 feet bgs. Low concentrations of 1,4-dichlorobenzene were detected in soil samples from two borings at concentrations up to 8  $\mu\text{g}/\text{kg}$ . SEG concluded no further action was required based on the data gathered.

### **1997 PES Phase I ESA and Phase II Subsurface Investigation**

In 1997 PES Environmental, Inc. (PES) performed a Phase I ESA which concluded significant chemical usage occurred at Dryclean 580, and the facility used PCE as a dry cleaning solvent and generated PCE wastes. Based on this, a Phase II ESA was performed including a soil vapor survey and the collection of one soil sample at Dryclean 580 to evaluate whether significant releases of dry-cleaning chemicals had occurred and affected subsurface conditions.

The soil vapor survey was conducted by Transglobal Environmental Geosciences, Inc. (TEG) under contract to PES as part of a Phase II Site Investigation in November 1997. Sixteen discrete soil vapor samples were collected from eleven locations (SG-1 through SG-11) at various depths using portable direct push equipment. These locations are shown on Figure 2.

One soil sample was collected outside the building using truck-mounted direct-push drilling equipment. Three soil vapor sampling locations were placed along the sanitary sewer line (SG-3, SG-5, and SG-11). The sampling points along the sanitary sewer line were placed adjacent to a sanitary sewer manhole (SG-3), adjacent to the location where the sewer line exits the building at the rear of Drycleaner 580 (SG-5), and downslope of the floor drain inside the building (SG-11). One soil vapor sampling location (SG-10) was located adjacent to a plastic bucket used to collect waste water from the dry-cleaning machine. One soil vapor sampling location (SG-8) was placed directly in front of the dry-cleaning machine, adjacent to an area used for storage of spot removers. One soil vapor sampling location (SG-9) was placed directly behind the dry-cleaning machine and adjacent to the waste storage drums. Three soil vapor sampling locations were placed outside and directly behind the dry-cleaning facility (SG-4, SG-6, and SG-7). Two soil vapor sampling locations were placed within the landscaped slope present approximately 100 feet south of the dry cleaning facility at areas where sandy deposits were observed on the ground surface during the site inspection (SG-1 and SG-2). Soil vapor samples were collected at depths ranging from 1 to 11.5 feet bgs.

At three locations (SG-3, SG-9, and SG-11) vapor could not be drawn for sampling at depths ranging from 1-foot bgs to 15 feet bgs. PES indicated inability to draw vapor in subsurface soils often corresponds to tight or fine-grained soil conditions. Soil vapor sampling location SG-3 was positioned adjacent to a junction in the sanitary sewer line approximately 100 feet south of Drycleaner 580. The depth of the sewer pipe at the junction was measured to be 6.5 feet bgs. Because vapor could not be drawn from soils

at depths ranging from 6 feet bgs to 15 feet bgs at SG-3, a soil matrix sample (SB1-7.0) was collected at a depth of 7 feet bgs, directly down-gradient of the sanitary sewer junction. The soil sample was collected using truck mounted pneumatic drilling equipment to assess whether potential leaks from the sanitary sewer junction have impacted subsurface soils.

A 5/8-inch diameter core was drilled through the asphalt at outdoor sampling locations, and through the concrete at the indoor locations. Soil vapor samples were collected by installing a 5/8-inch diameter, hollow, stainless-steel, soil vapor probe to the required sampling depth. A continuous length of inert 1/8-inch diameter polypropylene nylaflo tubing runs down the center of the probe to the sampling port beneath the tip. The probe was driven to the required depth using a hand-held electric rotary hammer.

Soil vapor was drawn through the nylaflo tubing for purging and sampling using a 20-cubic centimeter (cc) syringe which was connected to the nylaflo tubing via an on/off valve. Eight volumes of the tubing were flushed from the probe to evacuate the nylaflo tubing using the syringe. The next 20 cc of vapor were drawn and injected into a sealed Volatile Organic Analysis (VOA) container. The VOA container was immediately transferred to TEG's mobile laboratory for chemical analysis. This sampling technique allows a discrete soil vapor sample to be collected from the subsurface adjacent to the probe tip.

The soil vapor sample was analyzed within 15 minutes of collection using gas chromatography. Records were made on field data sheets of the sampling location, sampling depth, time of sample collection, time of sample analysis, probe evacuation volume, sample injection volume, and the concentration of soil vapor analyses. Following completion of the soil vapor survey, the boreholes were filled with a bentonite grout and the surface was patched with either cement or asphalt depending upon the existing surface conditions.

The sixteen soil vapor samples were collected by a TEG chemist and analyzed onsite using TEG's mobile laboratory. The one soil sample was collected using a brass tube sealed with teflon-lined plastic end caps, labeled, and delivered under chain of custody protocol to TEG's Rancho Cordova facility for analysis. The soil vapor and soil samples were analyzed for VOCs using EPA Test Method 8010.

During the soil vapor survey, a total of 16 soil vapor samples were collected from 11 soil vapor sampling locations (SG-1 through SG-11) at the site. Trichloroethene (TCE) was detected at concentrations ranging from 1,400 to 6,800 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). PCE was detected at concentrations ranging from 1,700 to 119,700  $\mu\text{g}/\text{m}^3$ . The soil sample collected at a depth of 7 feet below ground surface (bgs) from SB-1, located adjacent to an identified sewer line, did not contain detectable concentrations of TCE or PCE.

The highest concentration of PCE detected was 119,700  $\mu\text{g}/\text{m}^3$  in a sample collected at 7.5 feet bgs at the exterior, rear of the building adjacent to the sanitary sewer. However, PCE was detected at 4,000  $\mu\text{g}/\text{m}^3$  in a soil vapor sample collected at the same depth approximately 15 feet laterally from this location, indicating a potentially localized area of elevated concentrations of PCE. TCE was detected in four samples at concentrations up to 6,800  $\mu\text{g}/\text{m}^3$ .

The concentrations of PCE detected in soil vapor were highest at the locations along the sanitary sewer line inside and directly behind the dry-cleaning facility (SG-5 and SG-11). At location SG-5 the drill rods were observed to be wet upon withdrawing them from the borehole. Based on the proximity of SG-5 to a change in direction of the sanitary sewer line, it is possible that the moisture present on the drill rods is the result of a leak in the sanitary sewer line near SG-5. The concentration of PCE in soil vapor decreased from 119,700  $\mu\text{g}/\text{m}^3$  at 7.5 feet bgs to below the laboratory reporting limit of 1,000  $\mu\text{g}/\text{m}^3$  at 11.5 feet bgs at location SG-5. At location SG-11, where PCE was detected at 105,900  $\mu\text{g}/\text{m}^3$  at 2.0 feet bgs along the sanitary sewer line inside the building, no vapor was able to be drawn for sampling from 2 feet bgs to 8 feet bgs. Concentrations of PCE in soil vapor approximately 5 feet south of SG-11, at SG-4, were detected at 5,700  $\mu\text{g}/\text{m}^3$  at 2.5 feet bgs and decreased to 4,000  $\mu\text{g}/\text{m}^3$  at 7.5 feet bgs.

No groundwater was encountered at the subject property to the maximum depth explored of 20 feet bgs. The low levels of VOCs present in the subsurface do not appear to present a significant environmental concern to groundwater.

### **2012 Cardno ATC Limited Subsurface Assessment**

A limited subsurface assessment was conducted by Cardno ATC (formerly ATC Associates, Inc.) at the site in March 2012. These borings were drilled outside the rear of Dryclean 580. The purpose of the borings was to determine whether impacts to soil and groundwater were present in relation to the apparent chlorinated hydrocarbon release from Dryclean 580. Four soil borings (ATC-1 through ATC-4) were advanced to depths ranging from 24.5 to 31 feet bgs where refusal was encountered. Soil samples were collected continuously and field screened for the presence of VOCs. VOCs were detected in soil samples collected from borings ATC-1, ATC-2, and ATC-4 with one ESL exceedances report at 2 feet bgs in boring ATC-2. Groundwater was not encountered in any of the soil borings advanced.

### **2012 Cardno ATC Site Conceptual Model**

A site conceptual model (SCM) was prepared at the request of the ACEH in correspondence dated October 11, 2012. The SCM summarizes the site setting, environmental history, geologic and hydrogeologic characteristics, impacts to soil and groundwater, exposure pathways, remedial actions, and data gaps at the site. The SCM was developed to use as a guidance tool for future investigative or remedial activities.

## **3.0 SCOPE OF WORK**

In order to address the data gaps identified in the SCM, Cardno completed the following scope of work.

### **3.1 Pre-field Preparation and Utility Survey**

Prior to site mobilization for vapor assessment activities, Cardno obtained a well construction permit from the Alameda County Public Works Department for the construction of vapor wells and the advancement of soil borings. Additionally, Cardno marked the boring locations and notified Underground Service Alert to identify underground utilities and retained the services of a private utility locating company to identify underground utilities. The well construction permit is presented in **Appendix A**.

The main utility corridors include a sanitary sewer corridor from beneath the Dry Clean 580 extending to the southern edge of property, and a corridor of grouped utilities that runs east-west parallel to the south of the building. The corridor includes gas, electric, and telephone utilities and is approximately 2 feet in width. The depth of the utilities was not determined but is likely less than 5 feet below grade in the vicinity of the study area. Utility corridors identified during the utility survey are shown on **Figure 2**.

### **3.2 Sub-Slab Vapor / Soil Gas Assessment**

Cardno retained the services of TEG Northern California (TEG), a C-57 licensed drilling company and DHS certified mobile laboratory, to perform vapor sampling and onsite mobile laboratory services for the vapor assessment. On January 6, 7, and 17, 2014, TEG advanced a total of 10 sub-slab vapor points in the Dryclean 580 building and the adjoining Verizon and AT&T stores.

The sub-slab vapor points were installed using a handheld drill to core through the floor slab. The sub-slab vapor sampling probes were constructed using approximately two feet of 1/8-inch outside diameter Teflon tubing attached to a one-inch long filter screen. The tubing was emplaced approximately two inches below the concrete slab of the structure and above native soil. Dry granular bentonite was used to



fill the boring through the concrete slab and hydrated bentonite was then placed at the surface to create a leak tight seal. The tubing was fitted with a swag lock to facilitate sample collection. It should be noted, during the sub-slab vapor sampling, a synthetic moisture barrier was observed beneath the slab at all sub-slab vapor sampling locations.

A total of 15 soil gas points were installed outside, to the south of the building and were advanced to approximately five feet below grade using direct-push technology. Each vapor probe was constructed using 0.25-inch outer diameter (OD) Teflon tubing fitted with a stainless steel wire screen tip fitted with a swag lock to facilitate sample collection. The bottom of the boring around the screen tip and subsurface assembly was backfilled with approximately six inches of #2/12 Monterey sand and overlain with hydrated granular bentonite to seal the annular space above the sampling interval to prevent ambient air intrusion within the boring annulus.

Sub-slab and soil gas vapor samples were collected in accordance with the DTSC guidelines titled *Advisory-Active Soil Gas Investigations*, dated April 2012 and *Final – Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*, dated October 2011. Prior to sampling, vapor sampling probes were allowed to equilibrate for two hours following installation. A shut in test and a leak test were performed on each location. The leak test consisted of using 1,1-difluoroethane (1,1-DFA) to check the probe integrity. Prior to sample collection, a purge test was conducted to determine the appropriate number of purge volumes to remove from each probe. Flow rates were monitored during collection to insure a sampling rate of 100 to 200 milliliters per minute.

Vapor samples were collected in glass syringes and immediately transferred to the onsite mobile laboratory for VOC analysis by EPA Method 8260B, methane by EPA Method 8015M, and for oxygen and carbon dioxide using a gas chromatograph (GC) and a thermal conductivity detector (TCD).

Following sample collection, all sampling locations were destroyed by removing the tubing and grouting the hole to the surface except sub-slab vapor location SS-3 which was completed as a temporary location to facilitate future sample collection.

Laboratory analytical results for exterior soil vapor samples were compared to the California Human Health Screening Levels, Table 2. Soil Gas Screening Levels for Volatile Chemicals Below Buildings Constructed With Engineered Fill Below Sub-Slab Gravel, updated September 23, 2012 (CHHSLs). Concentrations of vinyl chloride, 1,1-dichloroethene (1,1-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), benzene, toluene, ethylbenzene, m,p-xylenes, o-xylenes, TCE, and PCE were detected in soil gas sample locations. Reported concentrations of vinyl chloride exceeded the CHHSL of 95  $\mu\text{g}/\text{m}^3$  collected from SV-1 (190  $\mu\text{g}/\text{m}^3$ ), SV-5 (110  $\mu\text{g}/\text{m}^3$ ), and SV-6 (110  $\mu\text{g}/\text{m}^3$ ). Reported concentrations of benzene exceeded the CHHSL of 280  $\mu\text{g}/\text{m}^3$  from SV-12 (290  $\mu\text{g}/\text{m}^3$ ) and SV-13 (400  $\mu\text{g}/\text{m}^3$ ). Reported concentrations of PCE exceeded the CHHSL of 1,600  $\mu\text{g}/\text{m}^3$  from SV-1 (9,500  $\mu\text{g}/\text{m}^3$ ), SV-6 (1,800  $\mu\text{g}/\text{m}^3$ ), SV-7 (3,600  $\mu\text{g}/\text{m}^3$ ) and SV-11 (2,200  $\mu\text{g}/\text{m}^3$ ). All other reported concentrations were below the corresponding CHHSL.

Laboratory analytical results for sub-slab vapor samples were compared to RWQCB Region 2 Environmental Screening Levels (ESLs) for indoor air in a commercial/industrial setting using a theoretical slab attenuation factor of 0.05, as recommended by DTSC guidance. Detections of PCE and TCE were reported above the respective screening values of 42  $\mu\text{g}/\text{m}^3$  and 62  $\mu\text{g}/\text{m}^3$ . The exceedances ranged from 120  $\mu\text{g}/\text{m}^3$  to 1200  $\mu\text{g}/\text{m}^3$  for PCE and 160  $\mu\text{g}/\text{m}^3$  to 380  $\mu\text{g}/\text{m}^3$  for TCE. It should be note that the detection limits used in the investigation were slightly above the theoretical screening values for some compounds.

Analytical results for historic and current sub-slab vapor and soil gas samples are presented in **Table 1**. Analytical results for soil vapor data are presented on **Figure 4**. Mobile laboratory analytical results are presented in **Appendix B**.

### 3.3 MIP Assessment

The MIP is a screening tool with semi-quantitative capabilities which acts as an interface between the contaminants in the subsurface and gas phase detectors at the surface. The MIP detectors include a photoionization detector (PID), electron capture detector (ECD) and flame ionization detector (FID). Each detector is designed for sensitivity to a group or type of contaminants. The ECD was used for chlorinated compounds, the PID was used for volatile aromatic hydrocarbons (benzene and related compounds) and the FID was used to detect petroleum hydrocarbons such as gasoline and diesel. Additionally, the MIP tooling measures electrical conductivity (or resistance) of soil to provide a general result for grain size.

Cardno retained the services of Vironex, a C-57 licensed drilling company, to perform the MIP assessment and confirmation soil sample collection. The MIP assessment was conducted on February 2 and February 6, 2014. A total of 15 MIP locations were selected based on the sub-slab and soil gas analytical results. Total depth assessed at each boring ranges from 22 to 26 feet bgs. The most significant MIP readings collected were at location MIP- 12. This location reported the highest response and indicated the presence of impacts from approximately 2 to 25 feet bgs. Data indicated fairly consistent attenuation of detections with depth. There were detections in the top 4 feet at several locations throughout the assessment.

MIP locations are presented on **Figure 3**. MIP logs are presented in **Appendix C**.

### 3.4 Confirmation Soil Sampling

Confirmation soil borings and sampling depths were selected based on results of the MIP assessment. Cardno supervised Vironex in the drilling of eight confirmation soil borings and the collection of soil samples using direct-push technology on February 5 through February 7, 2014. Soil borings were continuously cored using a 4-foot long by 1.5-inch outside diameter core sampler equipped with an acetate liner. Soil was logged continuously for lithology by a Cardno field staff under the responsible charge of a California Professional Geologist. Soil was also field screened at regular intervals using a photoionization detector (PID). Samples were selected for laboratory analysis based on MIP results and observations made during confirmation sampling. After completion all soil borings were grouted to the surface by emplacing cement slurry in the bottom of each boring with a tremie pipe according to permit conditions.

Soil sample collection was performed by cutting the desired sample interval from the acetate liner and placing Teflon® sheeting and plastic end caps on the ends of the sample section. Each sample was labeled, placed in an ice filled sample cooler and transported to TestAmerica Laboratory under chain of custody protocol. Soil samples were analyzed for VOCs by EPA Method 8260B.

Soil laboratory analytical results were compared to the Regional Water Quality Control Board – San Francisco Bay Region Environmental Screening Levels (ESLs) for shallow soil where water is potable, Table E-2. PCE concentrations were reported above the ESL of 0.7 milligrams per kilogram (mg/kg) in boring CB10 at a depth of 3 feet below ground surface (bgs) (0.87 mg/kg). Concentrations exceeding the ESL were also reported in boring CB12 at depths of 2-2.5 feet bgs (16 mg/kg) and 14-14.5 feet bgs (3.6 mg/kg). Naphthalene was reported above the ESL of 1.2 mg/kg in boring CB8 at a depth of 10-10.5 bgs (18 mg/kg). All other detected compounds were reported below their respective ESL.

Lithology encountered in the confirmation borings consisted mainly of low permeability silts and clays from surface to the maximum explored depth of 32 bgs. These unconsolidated sediments are underlain by what is assumed to be competent bedrock, which caused refusal. The classification of the bedrock was not determined. No groundwater was encountered during this investigation. A summary of historical

and current laboratory analytical results is presented in **Table 2**. Analytical results for chlorinated hydrocarbons collected to a depth of 15 feet bgs are presented on **Figure 5**. Results for chlorinated hydrocarbons reported below 15 feet bgs are presented on **Figure 6**. Non-chlorinated organic compounds collected to a depth of 15 feet bgs are presented on **Figure 7**. Non-chlorinated organic compounds collected below 15 feet bgs are presented on **Figure 8**. Geologic cross-sections are provided in **Figure 9** through **Figure 11**. The soil laboratory analytical report is included as **Appendix D**. Soil boring logs are presented in **Appendix E**.

### 3.5 Sensitive Receptor Survey

Cardno conducted a sensitive receptor survey within a 2,000-foot search radius of the site. The purpose of this survey was to identify domestic water supply wells, schools, hospitals, elderly care homes, daycare centers, and other public domains.

Cardno submitted Well Data Requests to the Department of Water Resources (DWR) and the Alameda County Public Works Department. No well information was provided by Alameda County Public Works Department. Well data provided by the DWR included three domestic wells within the search radius classified as domestic and/or irrigation. Well information is provided in **Table 3**.

Cardno conducted an internet based search for public domains within the search radius and found several locations including; Independent Elementary School located at 21201 Independent School Road, Transfiguration Catholic Church located at 4000 East Castro Valley Boulevard, and Castro Valley Masonic Center located at 4521 Crow Canyon Place. All of these locations are located up-gradient of the site. Additionally, Don Castro Reservoir is located approximately 1,200 feet to the southwest of the site. Locations of wells and public domains are presented on **Figure 12**.

Results of the survey show no public domains or domestic wells are located down-gradient of the site. Don Castro Reservoir is located approximately 1,200 feet down-gradient of the site.

## 4.0 RESULTS

Soil vapor data collected during this investigation indicated VOCs in sub-slab soil vapor beneath occupied tenant units are below applicable CHHSLs for commercial properties. As such, there does not appear to be a current vapor intrusion concern beneath the three tenant units in the study area. Although some soil vapor indicated exceedances of CHHSLs, these exceedances were detected at points outside of the shopping center building. The horizontal extent of CHHSL exceedances has been defined for soil vapor and is limited to the paved area south of the shopping center building and its occupied units.

The data also indicate a significant reduction of PCE concentrations in soil vapor since 1997. The previous highest concentration of PCE in vapor was detected in soil gas at locations SG5 and SG11 by PES. These locations were adjacent to the subsurface sanitary sewer piping. PES postulated that the source of the moisture could have been a leak from a sewer pipe that changed direction in the vicinity of this location. The outside surfaces of retracted drilling rods from these borings were described as being "wet upon withdrawing them from the borehole". The release at this location would be consistent with an unintentional release via the disposal of condensate process water (incorrectly assumed to be free of PCE) via the sewer, however, PES did not have adequate data from outside the building to confirm this conclusion.

Data also suggests a source area near SV-1 and CB-12 attenuates radially in all directions. The

increased presence of PCE daughter products and the significant reduction of previously detected PCE concentrations indicate active biodegradation is occurring at the site.

MIP data showed limited response, possibly due to the relatively low concentrations of VOCs and soil type at the site. The most notable MIP response was at MIP-12 starting at the surface and attenuating with depth. MIP boring MIP-12 was advanced near the possible source area identified in the vapor assessment (SV-1). Other responses were noted from surface to 6 feet bgs in several borings. Most shallow MIP detections appear to correlate with, and are interpreted to be due to, the presence of soil vapor impacts and not soil impacts. Confirmation soil sample laboratory analytical data generally correlates with the MIP results, with the exception of MIP detections in the shallow soils, as noted above. Confirmation soil data indicates the extent of VOCs exceeding ESLs is limited to approximately the upper 15 feet of soil in the vicinity of borings CB-10 and CB-12, with the likely source area at or near CB-12. The possible source location is confirmed by vapor data, MIP data, and past soil data collect at boring ATC-2. Vertically, concentrations attenuate with depth to below ESLs at 16.5 feet bgs. Though detections of VOCs were detected as deep as 23.5 feet bgs, at the soil/bedrock interface, the detections were below the ESLs. It should be noted the ESL values used for comparison are protective of groundwater. Cardno does not suspect VOCs have significantly penetrated bedrock, if at all.

No groundwater was encountered during this investigation or previous investigations. The site appears to be located on a topographic high and the surface of the shopping center in which the site is located, is almost completely paved. As such, it is possible groundwater is never present in soil at the site due to 1) the topographic setting and 2) paving inhibiting significant infiltration of meteoric water into the subsurface. Based on the results, VOCs at the site do not appear to threaten groundwater.

## 5.0 CONCLUSIONS

Currently, the contaminants of concern include chlorinated hydrocarbons and daughter breakdown products from these chlorinated solvents including:

- Trichloroethene (TCE)
- Perchloroethylene/Tetrachloroethene (PCE)
- Cis-1,2-Dichloroethene (cis-1,2-DCE)
- Trans-1,2-Dichloroethene (trans-1,2-DCE)

Chlorinated hydrocarbons have been detected in both soil vapor and soil. The source of these impacts is assumed to be activities associated with the drycleaner Dryclean 580 and the subsequent degradation of chlorinated hydrocarbons released to the subsurface. Certainty regarding the actual source of the release remains unknown. However, this assessment indicates a point source location is outside and approximately 15 feet south of the Dryclean 580 tenant unit. This is indicated by the detection of the highest impacts in soil and soil vapor near the surface in the vicinity of soil vapor point SV-1, soil boring CB-12, and MIP-12. It is uncertain what the mechanism was for the release.

Concentrations of PCE and TCE reported for sub-slab vapor samples were above screening levels but show significant attenuation away from the location with the highest concentrations SS-3. Based on this attenuation and the very conservative nature of the screening value (indoor air ESL adjusted with a 0.005 attenuation factor) and the observed presence of a synthetic vapor barrier beneath the slab, concentration in sub-slab vapor are adequately delineated. Sub-slab vapor concentrations collected from beneath the Dryclean 580 and adjacent tenant units indicate the release location may not have occurred from dry cleaning machinery or from activities inside the building; VOC concentrations in vapor detected beneath the building attenuate away from the identified source location outside the building. As VOCs in the source area continue to biodegrade, it is expected additional migration of VOC vapors underneath occupied areas will decrease without remediation.

Non-chlorinated organic compounds were detected in soil and outdoor soil vapor including:

- Benzene
- Ethylbenzene
- Xylenes
- Acetone
- Naphthalene

The source of the non-chlorinated organic compounds remains unknown. The distribution of acetone appears to be associated with the chlorinated hydrocarbon impacts, while the distribution of benzene, ethylbenzene, xylenes, and naphthalene appear to be unrelated. Of these compounds, detections of naphthalene and benzene in outdoor soil vapor represent the only CHHSL exceedances for non-chlorinated compounds; however, these exceedances do not appear to pose a threat to human health or environmental risk for the current property use.

A sensitive receptor survey was conducted and, although some sensitive receptors were identified within a 2,000-foot radius, no sensitive receptors were identified onsite or within the immediate vicinity. Identified receptors are not likely to be affected by the impacts at the site as the extent of impacts have been adequately defined and remain onsite within close proximity of the source area, centrally located within the large 580 Market Place shopping mall property. Additionally, there is no indication groundwater has been impacted. Therefore, the impacts do not pose a threat of migration to public water supply wells or surface water bodies.

## 6.0 RECOMMENDATIONS

Based on the conclusions of this investigation, Cardno has the following comments and recommendations.

Other than vapor monitoring No additional assessment is necessary as the site has been adequately assessed:

- The lateral and vertical extent of soil vapor impacts exceeding CHHSLs and sub-slab indoor air ESL-based screening levels has been adequately defined;
- Data collected during this investigation and previous investigations have adequately defined the extent of impacts in soil and soil vapor, both laterally and vertically;
- No groundwater was encountered and soil and soil vapor impacts do not appear significant enough to affect regional groundwater; no assessment of deeper, regional groundwater is necessary.

Sub-slab vapor data indicates concentrations of sub-slab soil vapor beneath occupied tenant spaces slightly exceed conservative indoor air ESL-based screening levels with the exception of the sample from SS-3 and do not pose an acute vapor intrusion risk. Therefore, the indoor air survey proposed in the work plan was not completed and is not necessary at this time. Also, installation of additional semi-permanent vapor probes were not installed and are not necessary at this time; the semi-permanent sub-slab vapor point installed in Dryclean 580 should be sufficient to monitor seasonal variations of sub-slab vapor concentrations.

Cardno recommends quarterly monitoring of sub-slab vapor concentrations at point SS-3 for at least one year to assess seasonal variations in sub-slab VOC concentrations. Based on monitoring the monitoring results, Cardno will evaluate the need for indoor air sampling or site specific risk analysis.

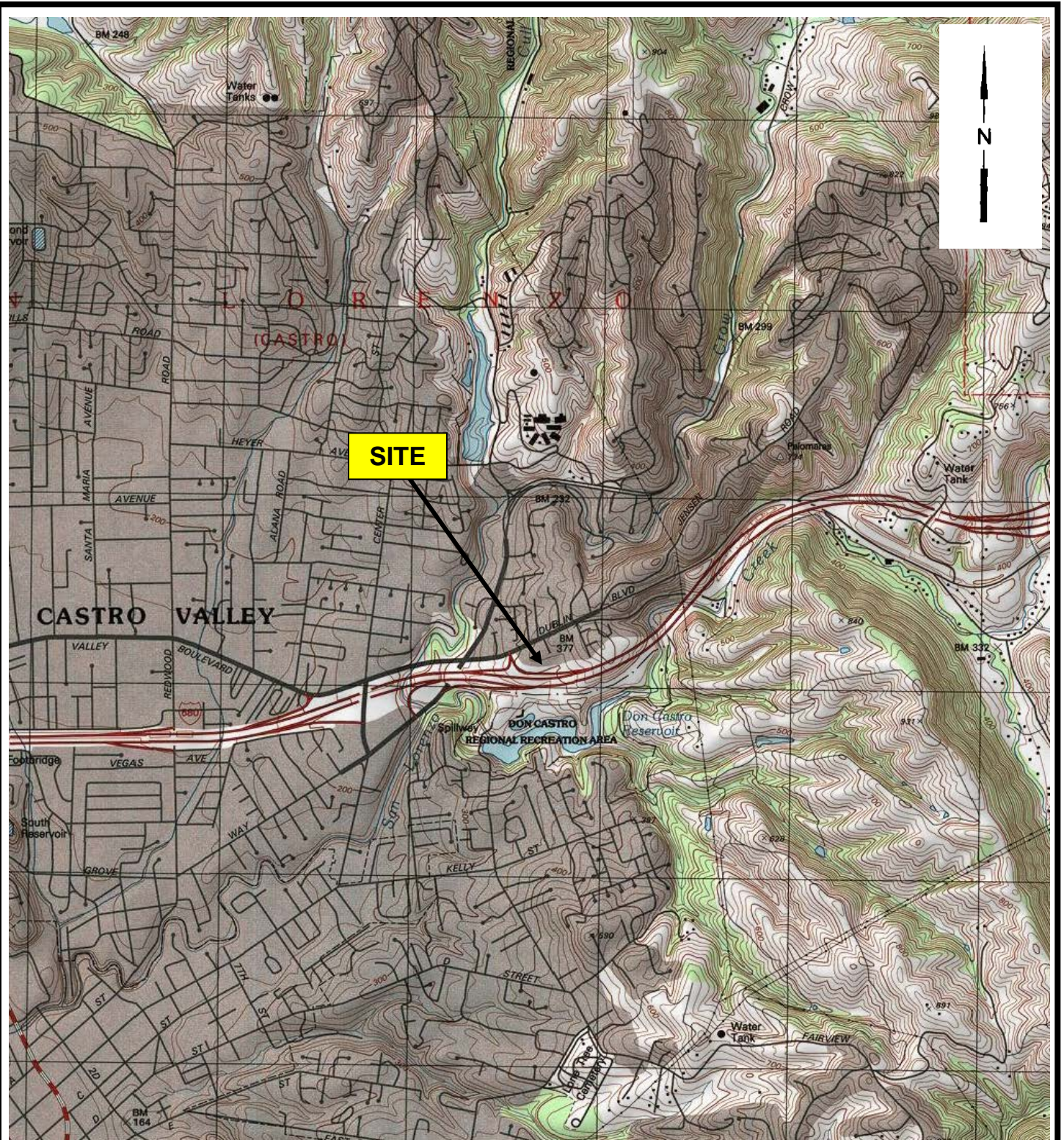
Cardno recommends remediating shallow impacted soils in the immediate vicinity of boring CB-12. Remediating these impacts will reduce the majority of residual source that potentially affects sub-slab vapor, thereby reducing vapor intrusion risks. Additionally, remediation of these soils will reduce human health risks for future construction work involving excavation and vapor intrusion risks should occupied spaces ever be constructed over this area.

Results of this investigation have been used to update the tabular site conceptual model (SCM) for the site. The SCM is included as **Table 4**. Data gaps and proposed additional Investigation are summarized in **Table 5**

## **7.0 LIMITATIONS AND CERTIFICATIONS**

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

## FIGURES



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP  
 CASTRO VALLEY QUADRANGLE, CALIFORNIA, DATED 1968, PHOTOREVISED 1987.

FIGURE 1

**SITE VICINITY MAP**

**580 MARKET PLACE SHOPPING CENTER  
 3735-4065 EAST CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA 94552**



1117 Lone Palm Ave, Ste 201B  
 Modesto, CA 95351  
 (209) 579-2221

PROJECT NO: 075.75356.0002

DESIGNED BY: JK

SCALE: 1:24,000

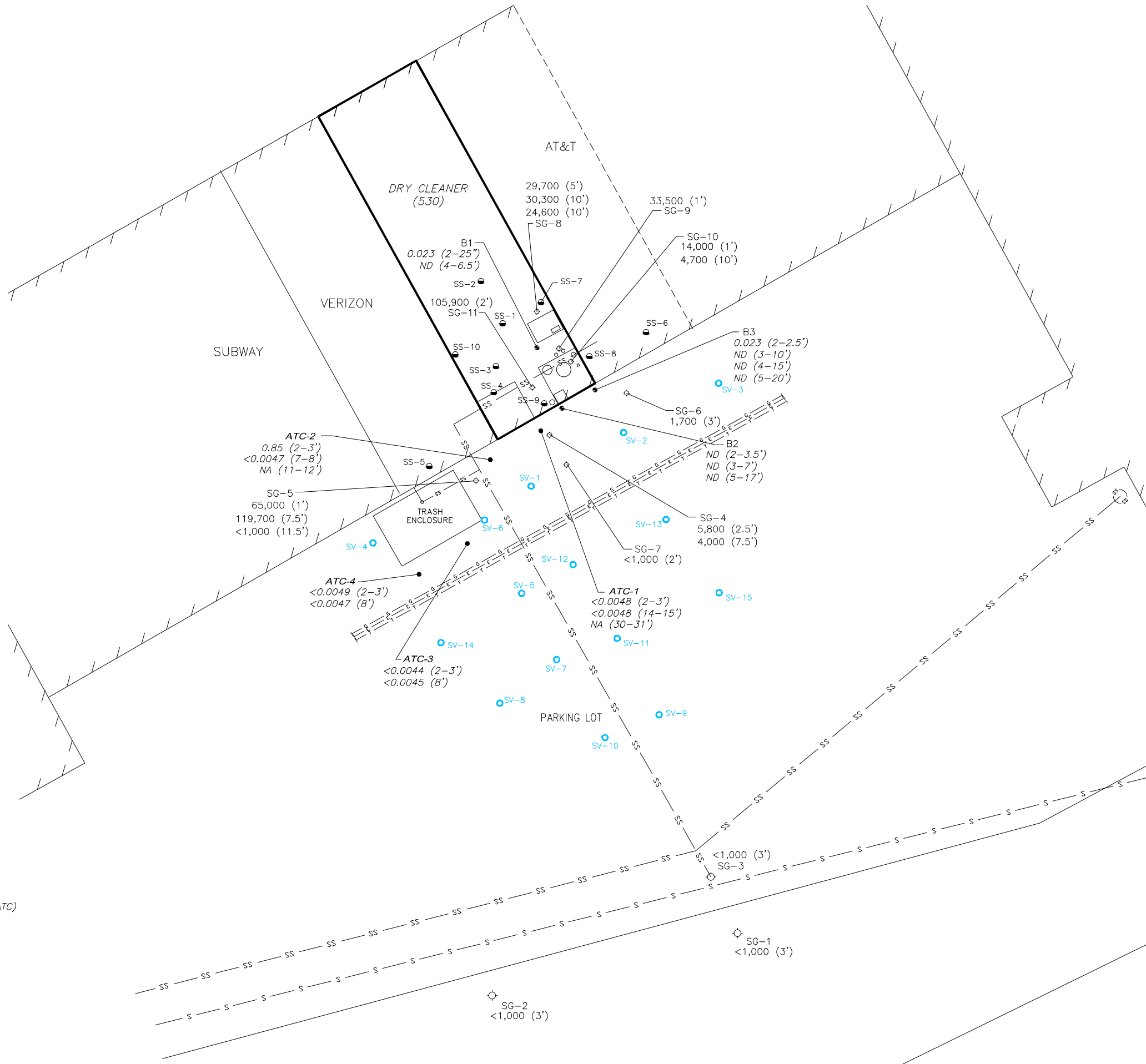
REVIEWED BY: JH

DRAWN BY: JK

DATE: 10/12

FILE: LOCATION





**LEGEND**

- SUBSLAB SAMPLE POINT
- SOIL GAS SAMPLE POINT
- ⊕ SOIL BORING (SEG, 1996)
- SOIL BORING (CARDNO ATC, 2012)
- ⊕ SOIL GAS SAMPLE (PES, 1997)
- ss — ss — SANITARY SEWER
- s — s — STORM SEWER
- 33.5 (1') PCE CONCENTRATION-DEPTH, FT,  $\mu\text{g}/\text{m}^3$
- <math><0.0048</math> (7.5') PCE CONCENTRATION-DEPTH, FT,  $\text{mg}/\text{kg}$  (ATC)
- ND NOT DETECTED ABOVE METHOD DETECTION LIMIT/NO DETECTION LIMIT AVAILABLE



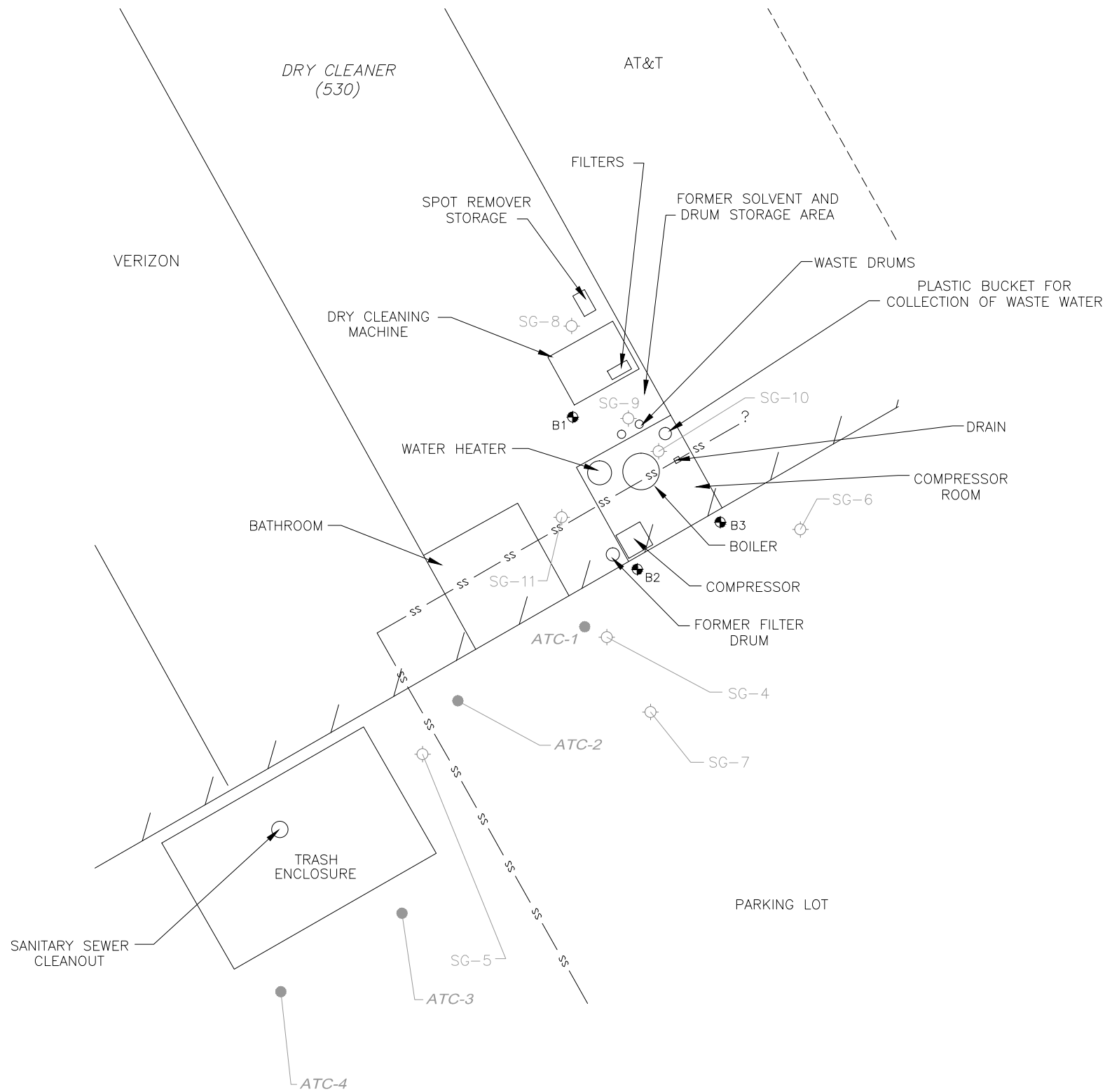
NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

PROJECT NUMBER: 75.75354.0002  
 DATE: 3/27/14  
 DRAWN BY: BK  
 APPROVED BY: GS  
**Cardno ATC**  
 Sacramento, California 95825  
 Ph: (916) 923-1097 \*\*\* Fax: (916) 923-6251

**SITE PLAN (EXTENDED)**  
 580 MARKET PLACE  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA

FIGURE 2

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**LEGEND**

- SOIL BORING (SEG, 1996)
- SOIL BORING (CARDNO ATC, 2012)
- SOIL GAS SAMPLE (PES, 1997)
- ss — SANITARY SEWER



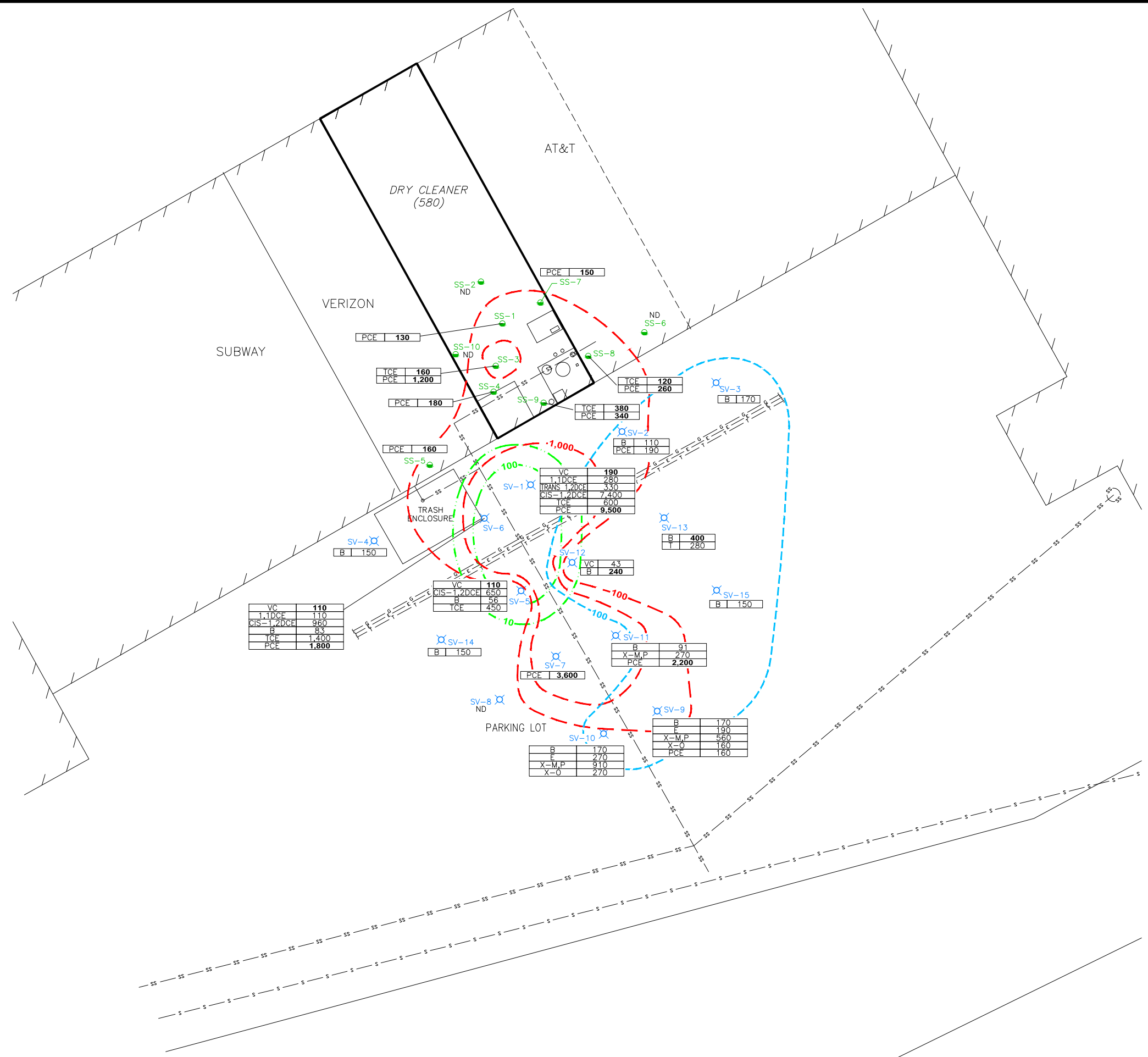
NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

**SITE PLAN WITH DRY CLEANER FEATURES**

580 MARKET PLACE  
3735 E. CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CA

PROJECT NUMBER: 75:75354-0002	DATE: 3/27/14	FIGURE
APPROVED BY: GS	DRAWN BY: BK	3
701 University Avenue, Ste. #200 Sacramento, California 95825 Ph: (916) 923-1097 *** Fax: (916) 923-6251		

**SHALLOW SOIL VAPOR CONCENTRATIONS - DETECTED**  
 DRYCLEAN 580  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA



**LEGEND**

- SUBSLAB SAMPLE POINT
- ⊗ SOIL GAS SAMPLE POINT
- g—g— GAS LINE
- e—e— ELECTRIC LINE
- t—t— TELEPHONE LINE
- ss—ss— SANITARY SEWER
- s—s— STORM SEWER
- PCE,  $\mu\text{g}/\text{m}^3$
- BENZENE,  $\mu\text{g}/\text{m}^3$
- VINYL CHLORIDE,  $\mu\text{g}/\text{m}^3$

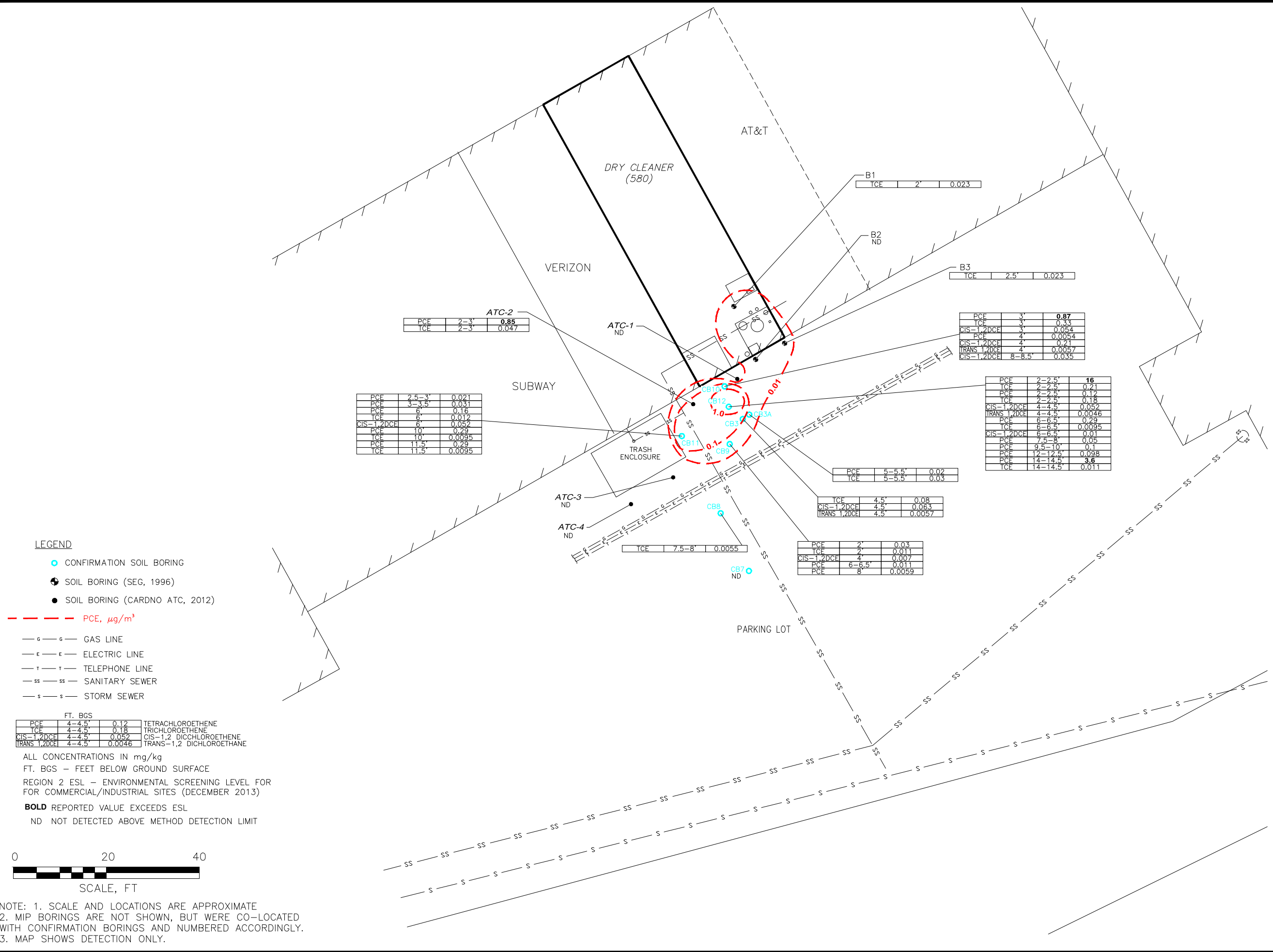
VC	190	VINYL CHLORIDE
1,1DCE	280	1,1-DICHLOROETHANE
TRANS-1,2DCE	330	TRANS-1,2-DICHLOROETHANE
CIS-1,2DCE	7,400	CIS-1,2-DICHLOROETHENE
B	400	BENZENE
T	280	TOULENE
E	270	ETHYLBENZENE
X-M,P	910	M,P. XYLENE
X-O	270	O XYLENE
TCE	600	TRICHLOROETHENE
PCE	9,500	TETRACHLOROETHENE

ALL CONCENTRATIONS IN  $\mu\text{g}/\text{m}^3$   
 ND NOT DETECTED ABOVE METHOD DETECTION LIMIT  
**BOLD** CONCENTRATION EQUALS OR EXCEEDS CHHSL OR INDOOR AIR-BASED ESL SCREENING VALUE



NOTE: 1. SCALE AND LOCATIONS ARE APPROXIMATE.  
 2. MAP SHOWS DETECTION ONLY.

**CHLORINATED HYDROCARBONS DETECTED IN SOIL**  
**(0 - 15' BGS)**  
 DRYCLEAN 580  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA



S:\Projects\7575354\_Markplace\002\5CHLHY 0-15.dwg



**LEGEND**

- CONFIRMATION SOIL BORING
- PCE,  $\mu\text{g}/\text{m}^3$
- g—g— GAS LINE
- E—E— ELECTRIC LINE
- T—T— TELEPHONE LINE
- SS—SS— SANITARY SEWER
- S—S— STORM SEWER

FT. BGS  
**PCE 16.5-17' 0.091** TETRACHLOROETHENE  
 ALL CONCENTRATIONS IN  $\text{mg}/\text{kg}$   
 FT. BGS - FEET BELOW GROUND SURFACE  
 REGION 2 ESL - ENVIRONMENTAL SCREENING LEVEL FOR  
 FOR COMMERCIAL/INDUSTRIAL SITES (DECEMBER 2013)  
**BOLD** REPORTED VALUE EXCEEDS ESL  
 ND NOT DETECTED ABOVE METHOD DETECTION LIMIT



NOTE: 1. SCALE AND LOCATIONS ARE APPROXIMATE  
 2. MIP BORINGS ARE NOT SHOWN, BUT WERE CO-LOCATED  
 WITH CONFIRMATION BORINGS AND NUMBERED ACCORDINGLY.  
 3. MAP SHOWS DETECTION ONLY.

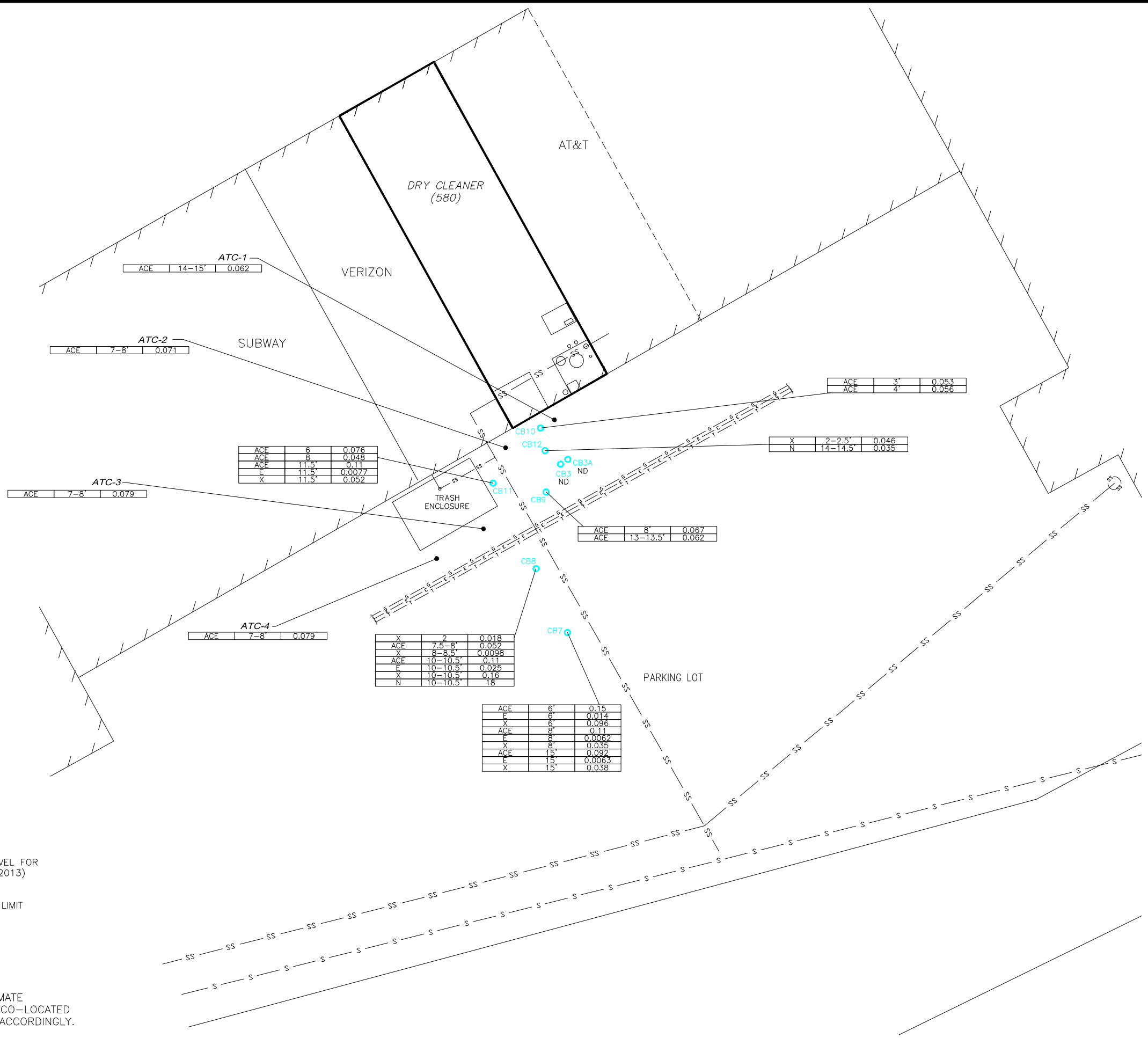
**CHLORINATED HYDROCARBONS DETECTED IN SOIL  
 (16 - 30' BGS)**

DRYCLEAN 580  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA

PROJECT NUMBER: 75.75354.0002  
 APPROVED BY: GS  
 DATE: 3/27/14  
 DRAWN BY: BK  
**FIGURE 6**

**Cardno ATC**  
 Sacramento, California 95825  
 Ph: (916) 923-1097 \*\*\* Fax: (916) 923-6251

**NON-CHLORINATED HYDROCARBONS**  
**(0 - 15' BGS)**  
 DRYCLEAN 580  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA



**LEGEND**

- CONFIRMATION SOIL BORING
- SOIL BORING (CARDNO ATC, 2012)
- g—g— GAS LINE
- e—e— ELECTRIC LINE
- t—t— TELEPHONE LINE
- ss—ss— SANITARY SEWER
- s—s— STORM SEWER

FT. BGS		
ACE	10-10.5'	0.11
E	10-10.5'	0.025
X	10-10.5'	0.16
N	10-10.5'	18

ALL CONCENTRATIONS IN mg/kg  
 FT. BGS - FEET BELOW GROUND SURFACE  
 REGION 2 ESL - ENVIRONMENTAL SCREENING LEVEL FOR  
 FOR COMMERCIAL/INDUSTRIAL SITES (DECEMBER 2013)

**BOLD** REPORTED VALUE EXCEEDS ESL  
 ND NOT DETECTED ABOVE METHOD DETECTION LIMIT



NOTE: 1. SCALE AND LOCATIONS ARE APPROXIMATE  
 2. MIP BORINGS ARE NOT SHOWN, BUT WERE CO-LOCATED  
 WITH CONFIRMATION BORINGS AND NUMBERED ACCORDINGLY.  
 3. MAP SHOW DETECTION ONLY.



**LEGEND**

- CONFIRMATION SOIL BORING
- g—g— GAS LINE
- e—e— ELECTRIC LINE
- t—t— TELEPHONE LINE
- ss—ss— SANITARY SEWER
- s—s— STORM SEWER

FT. BGS			
ACE	20'	0.073	ACETONE
E	20'	0.0049	ETHYLBENZENE
X	20'	0.03	TOTAL XYLENES

ALL CONCENTRATIONS IN mg/kg

FT. BGS - FEET BELOW GROUND SURFACE

REGION 2 ESL - ENVIRONMENTAL SCREENING LEVEL FOR COMMERCIAL/INDUSTRIAL SITES (DECEMBER 2013)

**BOLD** REPORTED VALUE EXCEEDS ESL

ND NOT DETECTED ABOVE METHOD DETECTION LIMIT/NO DETECTION LIMIT AVAILABLE



SCALE, FT

NOTE: 1. SCALE AND LOCATIONS ARE APPROXIMATE  
 2. MIP BORINGS ARE NOT SHOWN, BUT WERE CO-LOCATED WITH CONFIRMATION BORINGS AND NUMBERED ACCORDINGLY.  
 3. MAP SHOWS DETECTION ONLY.

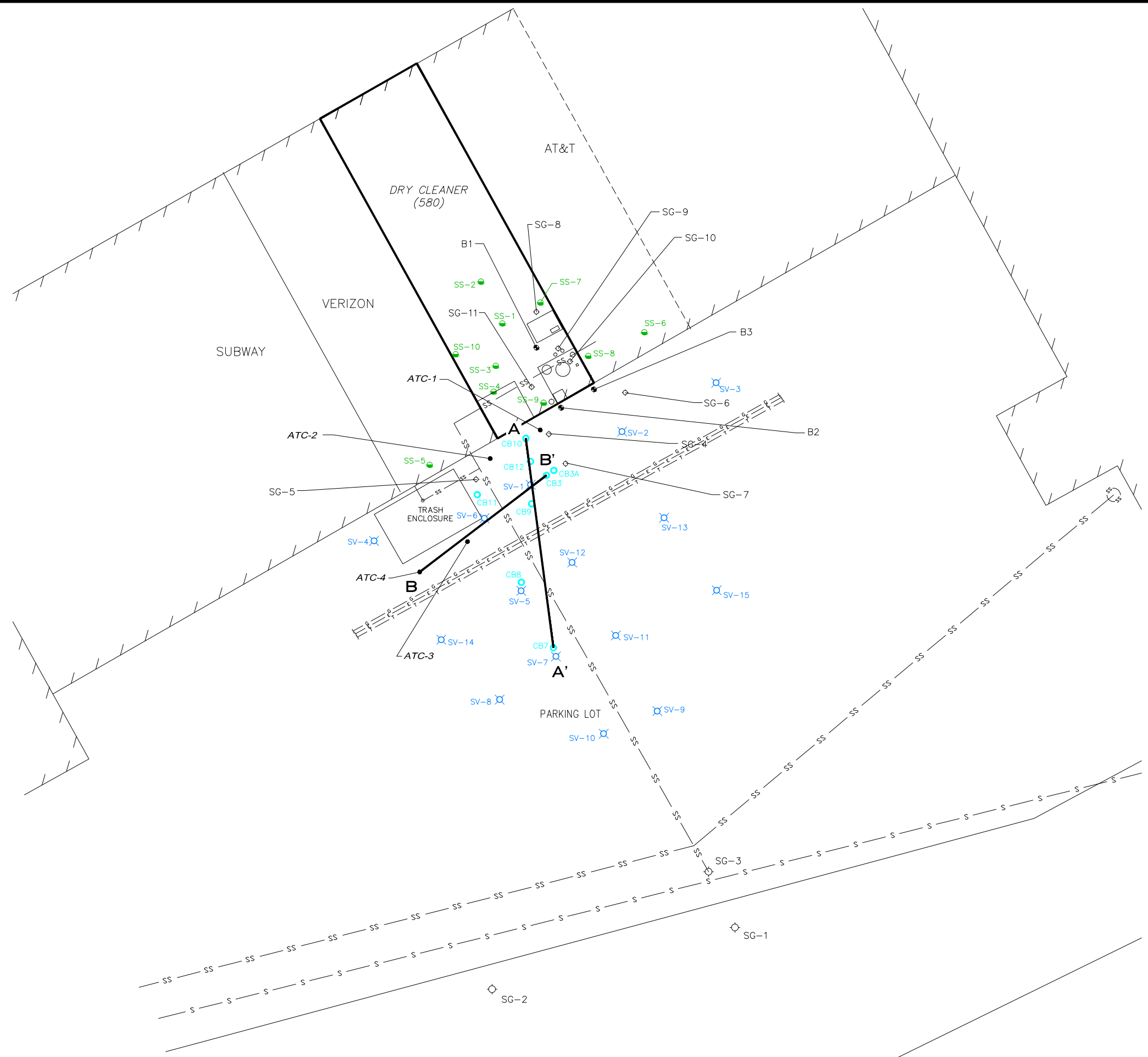
**NON-CHLORINATED HYDROCARBONS  
 (16 - 30' BGS)**

DRYCLEAN 580  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA

PROJECT NUMBER: 75.75354.0002  
 DATE: 3/27/14  
 APPROVED BY: GS  
 DRAWN BY: BK

**FIGURE 8**  
**Cardno ATC**  
 701 University Avenue, Ste. #200  
 Sacramento, California 95825  
 Ph: (916) 923-1097 \*\*\* Fax: (916) 923-6251

**CROSS SECTION MAP**  
 DRYCLEAN 580  
 3735 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA



- LEGEND**
- SUBSLAB SAMPLE POINT
  - ⊗ SOIL GAS SAMPLE POINT
  - CONFIRMATION SOIL BORING
  - ⊕ SOIL BORING (SEG, 1996)
  - SOIL BORING (CARDNO ATC, 2012)
  - ⊗ SOIL GAS SAMPLE (PES, 1997)
  - g—g— GAS LINE
  - E—E— ELECTRIC LINE
  - T—T— TELEPHONE LINE
  - SS—SS— SANITARY SEWER
  - S—S— STORM SEWER

**A-A'** CROSS SECTION

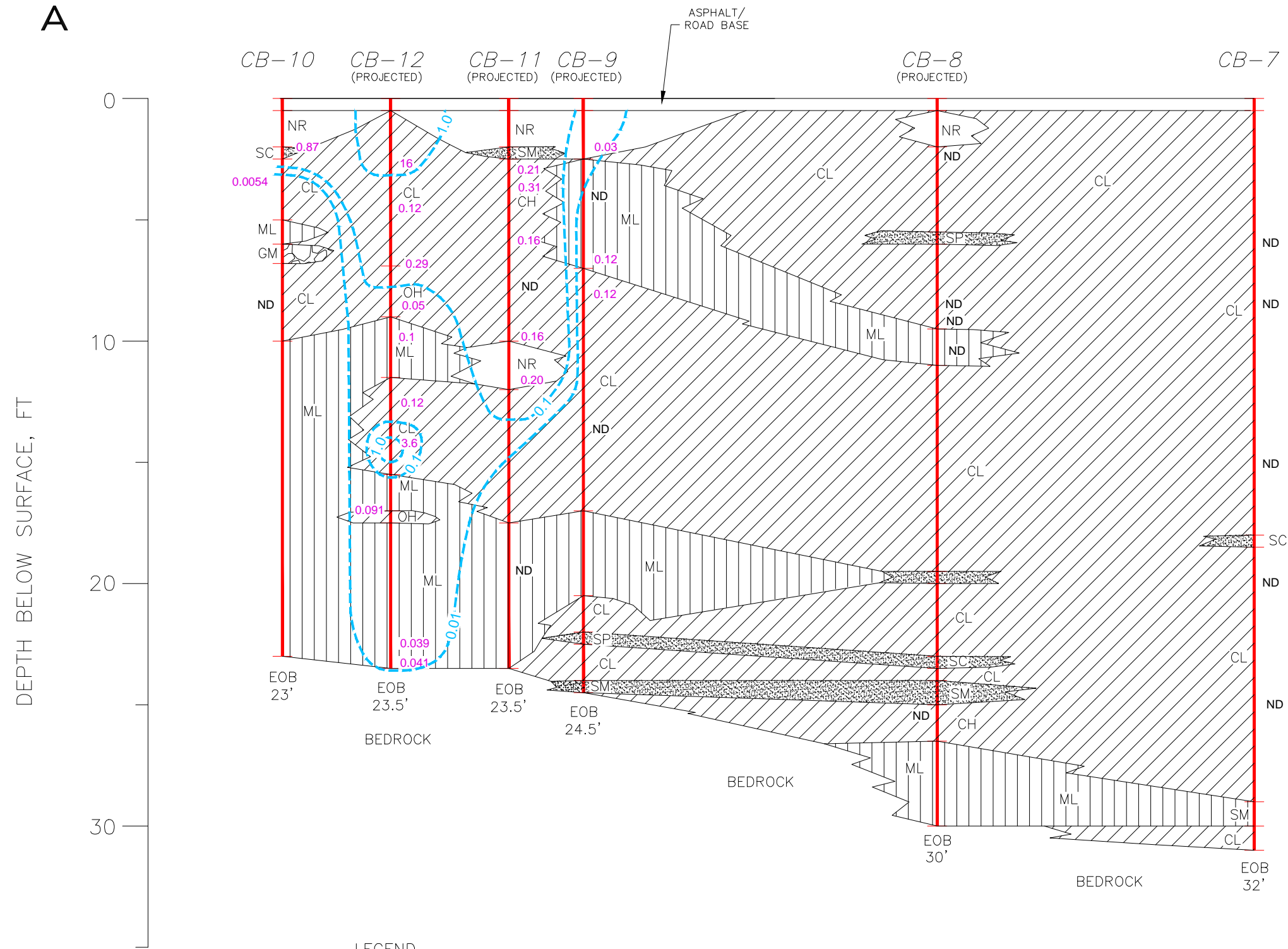


NOTE: SCALE AND LOCATIONS ARE APPROXIMATE



A

A'

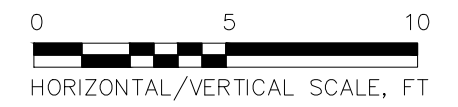


LEGEND

- CLAY (CL)
- SILT (ML)
- SAND (SP, SC, SM)
- GRAVEL (GM)
- BOREHOLE
- PCE ISOCONTOUR, mg/kg
- NR NO RECOVERY
- EOB - END OF BORING
- ND NOT DETECTED
- 0.12 PCE, mg/kg

**NOTES:**

1. THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTIONS WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE SOIL BORINGS MAY VARY FROM THOSE INDICATED.
2. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.

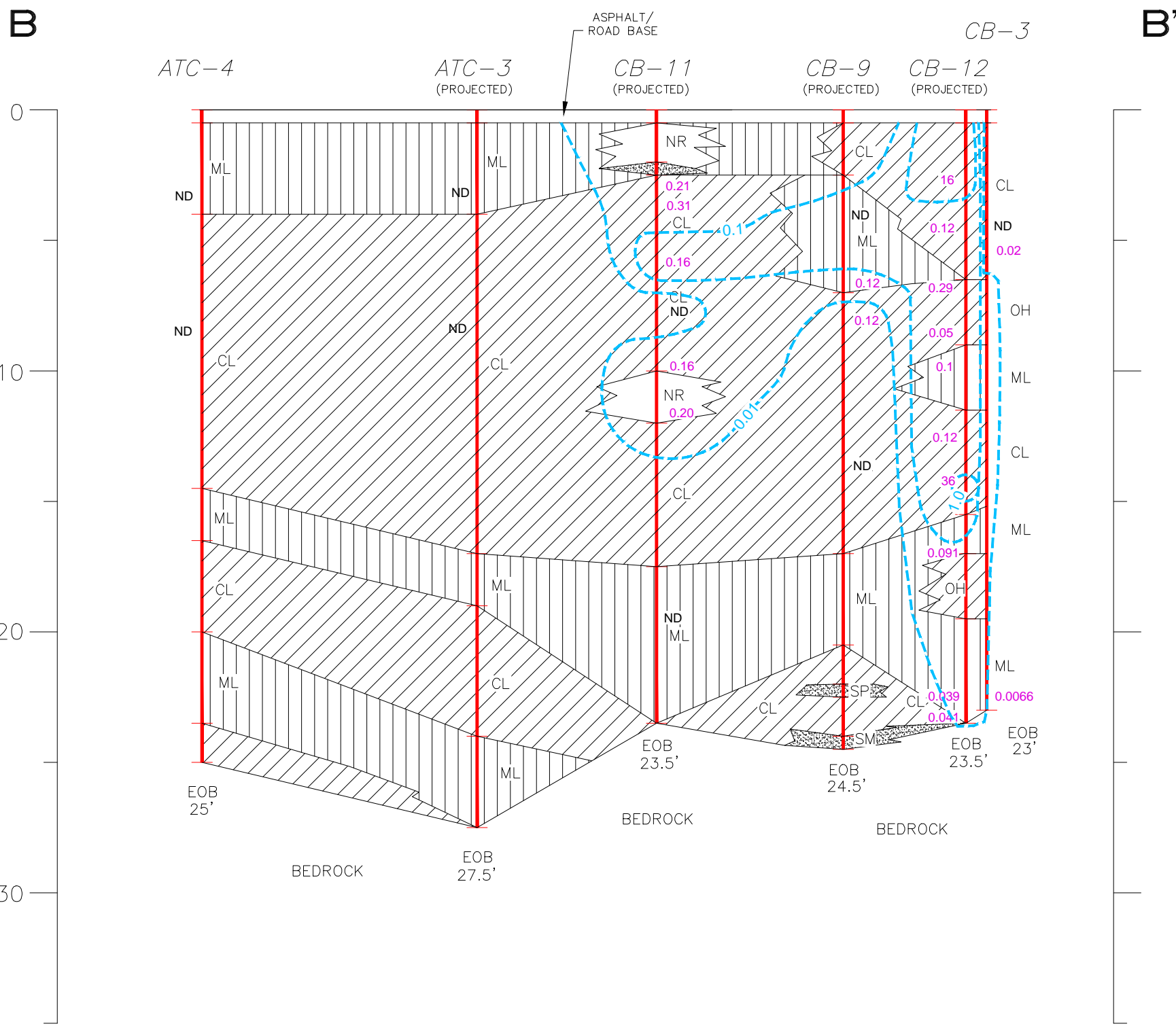


NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

**GENERALIZED CROSS SECTION A - A'**  
 580 MARKET PLACE  
 3735 - 4065 E. CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CA

PROJECT NUMBER: 75.75354.0002	DATE: 3/26/14	FIGURE
APPROVED BY: GS	DRAWN BY: BK	10
701 University Avenue, Ste. #200 Sacramento, California 95825 Ph: (916) 923-1097 *** Fax: (916) 923-6251		

S:\Projects\7575354\_Marketplace\0002\SECTIONA.dwg

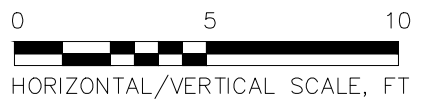


**LEGEND**

- CLAY (CL)
- SILT (ML)
- SAND (SP,SC,SM)
- NR NO RECOVERY
- BOREHOLE
- EOB - END OF BORING
- ND NOT DETECTED
- 0.12 PCE, mg/kg
- PCE ISOCONTOUR, mg/kg

**NOTES:**

1. THE DEPTH AND THICKNESS OF THE SUBSURFACE STRATA INDICATED ON THE SECTIONS WERE GENERALIZED FROM AND INTERPOLATED BETWEEN THE SOIL BORINGS. INFORMATION ON ACTUAL SUBSURFACE CONDITIONS EXISTS ONLY AT THE LOCATION OF THE SOIL BORINGS AND IT IS POSSIBLE THAT SUBSURFACE CONDITIONS BETWEEN THE SOIL BORINGS MAY VARY FROM THOSE INDICATED.
2. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SOIL CONDITIONS AND WATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE CONDITIONS AT THESE BORING LOCATIONS.



NOTE: SCALE AND LOCATIONS ARE APPROXIMATE


**GENERALIZED CROSS SECTION B - B'**



580 MARKET PLACE  
3735 - 4065 E. CASTRO VALLEY BOULEVARD  
CASTRO VALLEY, CA


PROJECT NUMBER: 75.75354.0002	DATE: 3/26/14	FIGURE 11
APPROVED BY: GS	DRAWN BY: BK	
701 University Avenue, Ste. #200 Sacramento, California 95825		
Ph: (916) 923-1097 *** Fax: (916) 923-6251		



SOURCE: 2012 AERIAL PHOTOGRAPH, PROVIDED BY U.S. FISH AND WILDLIFE SERVICE

  
 North

-  DWR Log No. 291581
-  DWR Log No. 14753

			6602 Owens Drive, Suite 100 Pleasanton, California 94588 (925) 460-5300		
PROJECT NO: 075.75354.0002					
DESIGNED BY: SMP		SCALE: NTS		REVIEWED BY: GS	
DRAWN BY: SMP		DATE: 2/14		FILE: SRS Search Area	

**FIGURE 12**  
**Sensitive Receptor Survey Well Locations**  
 580 Market Place Shopping Center  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California

## TABLES

**TABLE 1**  
**Summary of Detected Vapor Laboratory Analytical Data**

580 Marketplace  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California

Well Number	Date	Depth (feet bgs)	Vinyl Chloride	1,1-Dichloroethene	trans 1,2-Dichloroethene	cis-1,2-Dichloroethene	Benzene	Toluene	Ethylbenzene	m, p - Xylene*	o - Xylene	TCE	PCE
			All results in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).										
Indoor Air/Commercial ESL ( $\mu\text{g}/\text{m}^3$ ) with 0.05 attenuation factor (sub slab vapor screening) <sup>†</sup>			3	17,600	5,200	620	8.4	26,000	98	8,800	8,800	60	42
CHHSL ( $\mu\text{g}/\text{m}^3$ ) (soil vapor screening)			95	NE	240,000	120,000	280	890,000	3,600	2,200,000	2,100,000	4,400	1,600
<b>Historical Vapor Data - Reported by PES Environmental, Inc.</b>													
<b>Environmental Protection Agency (EPA) Method 8010</b>													
SG-1	11/11/97	3.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	<1000
SG-2	11/11/97	3.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	<1000
SG-3	11/11/97	3.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	<1000
SG-4	11/11/97	2.5	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	5,800
SG-4	11/11/97	7.5	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	4,000
SG-5	11/11/97	1.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	65,000
SG-5	11/11/97	7.5	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	6,800	119,700
SG-5	11/11/97	11.5	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	<1000
SG-6	11/11/97	3.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	1,700
SG-7	11/11/97	2.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	<1000
SG-8	11/12/97	5.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	2,100	29,700
SG-8	11/12/97	10.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	1,400	30,300
SG-8 (DUP)	11/12/97	10.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	1,100	24,600
SG-9	11/12/97	1.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	33,500
SG-10	11/12/97	1.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	14,000
SG-10	11/12/97	10.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	<1000	4,700
SG-11	11/12/97	2.0	<1000	NA	<1000	<1000	NA	NA	NA	NA	NA	1,400	105,900
<b>Current Vapor Data - Reported by Cardno ATC</b>													
<b>EPA Method 8260B</b>													
SS-1	01/06/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	130
SS-2	01/06/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	<100
SS-3	01/06/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	160	1,200
SS-4	01/06/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	180
SS-5	01/07/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	160
SS-6	01/07/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	<100
SS-7	01/07/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	150
SS-8	01/07/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	120	260
SS-9	01/17/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	380	340
SS-10	01/17/14	0.66	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	<100
SV-1	01/06/14	5.0	190	280	330	7,400	<35	<200	<100	<200	<100	600	9,500
SV-2	01/06/14	5.0	<13	<100	<100	<100	110	<200	<100	<200	<100	<100	190

**TABLE 1**  
**Summary of Detected Vapor Laboratory Analytical Data**

580 Marketplace  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California

Well Number	Date	Depth (feet bgs)	Vinyl Chloride	1,1-Dichloroethene	trans 1,2-Dichloroethene	cis-1,2-Dichloroethene	Benzene	Toluene	Ethylbenzene	m, p - Xylene*	o - Xylene	TCE	PCE
			All results in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).										
Indoor Air/Commercial ESL ( $\mu\text{g}/\text{m}^3$ ) with 0.05 attenuation factor (sub slab vapor screening) <sup>+</sup>			3	17,600	5,200	620	8.4	26,000	98	8,800	8,800	60	42
CHHSL ( $\mu\text{g}/\text{m}^3$ ) (soil vapor screening)			95	NE	240,000	120,000	280	890,000	3,600	2,200,000	2,100,000	4,400	1,600
SV-3	01/06/14	5.0	<13	<100	<100	<100	170	<200	<100	<200	<100	<100	<100
SV-4	01/07/14	5.0	<13	<100	<100	<100	72	<200	<100	<200	<100	<100	<100
SV-5	01/07/14	5.0	<b>110</b>	<100	<100	650	56	<200	<100	<200	<100	450	<100
SV-6	01/07/14	5.0	<b>110</b>	110	<100	960	83	<200	<100	<200	<100	1,400	<b>1,800</b>
SV-7	01/07/14	5.0	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	<b>3,600</b>
SV-8	01/07/14	5.0	<13	<100	<100	<100	<35	<200	<100	<200	<100	<100	<100
SV-9	01/17/14	5.0	<13	<100	<100	<100	170	<200	190	560	160	<100	160
SV-10	01/17/14	5.0	<13	<100	<100	<100	170	<200	270	910	270	<100	<100
SV-11	01/17/14	5.0	<13	<100	<100	<100	91	<200	<100	270	<100	<100	<b>2,200</b>
SV-12	01/17/14	5.0	43	<100	<100	<100	<b>290</b>	<200	<100	<200	<100	<100	<100
SV-13	01/17/14	5.0	<13	<100	<100	<100	<b>400</b>	280	<100	<200	<100	<100	<100
SV-14	01/17/14	5.0	<13	<100	<100	<100	150	<200	<100	<200	<100	<100	<100
SV-15	01/17/14	5.0	<13	<100	<100	<100	150	<200	<100	<200	<100	<100	<100
Notes:			<ul style="list-style-type: none"> <li>bgs - Below ground surface.</li> <li>* CHHSL listed is the more conservative value for p-xylene.</li> <li>TCE - Trichloroethene</li> <li>PCE - Tetrachloroethene</li> <li>CHHSLs - California Human Health Screening Levels Table 2 - September 2010</li> <li>NE - Not established.</li> <li>NA - Not analyzed.</li> <li>&lt;5.0 - Constituent not detected above specific minimum laboratory method reporting limit.</li> <li><b>Bold</b> - Concentration equals or exceeds CHHSL.</li> <li>+ - The sub slab soil analytical results were compared to theoretical calculated commercial indoor air ESLs using a default attenuation factor of 0.05, as recommended by DTSC</li> </ul>										

**TABLE 2**  
**Summary of Detected Soil Laboratory Analytical Data**

580 Market Place Shopping Center  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California 94552

Sample ID	Depth (feet bgs)	Sample Date	PCE (mg/kg)	TCE (mg/kg)	cis-1,2 DCE (mg/kg)	trans-1,2 DCE (mg/kg)	Acetone (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Napthalene (mg/kg)
			EPA Method 8260B							
<b>Historical Soil Analytical Data</b>										
ATC-1 (2')	2-3	3/1/2012	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0048	<0.0097	<0.0097
ATC-1 (15')	14-15	3/1/2012	<0.0048	<0.0048	<0.0048	<0.0048	0.062	<0.0048	<0.0097	<0.0097
ATC-1 (31')	30-31	3/1/2012	---	---	---	---	---	---	---	---
ATC-2 (2')	2-3	3/1/2012	<b>0.85</b>	0.047	<0.022	<0.022	<0.22	<0.022	<0.043	<0.043
ATC-2 (7.5')	7-8	3/1/2012	<0.0047	<0.0047	<0.0047	<0.0047	0.071	<0.0047	<0.0093	<0.0093
ATC-2 (12')	11-12	3/1/2012	---	---	---	---	---	---	---	---
ATC-3 (2')	2-3	3/1/2012	<0.0044	<0.0044	<0.0044	<0.0044	<0.044	<0.0044	<0.0088	<0.0088
ATC-3 (8')	7-8	3/1/2012	<0.0045	<0.0045	<0.0045	<0.0045	<0.045	<0.0045	<0.0090	<0.0090
ATC-4 (2')	2-3	3/1/2012	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0097	<0.0097
ATC-4 (8')	7-8	3/1/2012	<0.0047	<0.0047	<0.0047	<0.0047	0.079	<0.0047	<0.0094	<0.0094
<b>Current Soil Analytical Data</b>										
CB3-4.5	4.5	2/6/2014	<0.0049	0.08	0.063	0.0057	<0.049	<0.0049	<0.0097	<0.0097
CB3 22-22.5	22-22.5	2/6/2014	0.0066	<0.0046	<0.0046	<0.0046	0.12	<0.0046	<0.0092	<0.0092
CB3A 5-5.5	5-5.5	2/7/2014	0.02	0.03	<0.0044	<0.0044	<0.044	<0.0044	<0.0088	<0.0088
CB7-6	6	2/5/2014	<0.0043	<0.0043	<0.0043	<0.0043	0.15	0.014	0.096	<0.0086
CB7-8	8	2/5/2014	<0.0049	<0.0049	<0.0049	<0.0049	0.11	0.0062	0.035	<0.0098
CB7-15	15	2/5/2014	<0.0044	<0.0044	<0.0044	<0.0044	0.092	0.0063	0.038	<0.0088
CB7-20	20	2/5/2014	<0.0048	<0.0048	<0.0048	<0.0048	0.073	0.0049	0.03	<0.0095
CB7-25	25	2/5/2014	<0.0046	<0.0046	<0.0046	<0.0046	0.077	<0.0046	<0.0091	<0.0091
CB8-2	2	2/5/2014	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0048	0.018	<0.0097
CB8 7.5-8	7.5-8	2/5/2014	<0.0045	0.0055	<0.0045	<0.0045	0.052	<0.0045	<0.0091	<0.0091
CB8 8-8.5	8-8.5	2/5/2014	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	0.0098	<0.0098
CB8 10-10.5	10-10.5	2/5/2014	<0.0043	<0.0043	<0.0043	<0.0043	0.11	0.025	0.16	<b>18</b>
CB8 25-25.5	25-25.5	2/5/2014	<0.0044	<0.0044	<0.0044	<0.0044	0.074	<0.0044	<0.0088	<0.0088
CB9-2	2	2/6/2014	0.03	0.011	<0.0047	<0.0047	<0.047	<0.0047	<0.0094	<0.0094
CB9-4	4	2/6/2014	<0.0049	<0.0049	0.007	<0.0049	<0.049	<0.0049	<0.0099	<0.0099
CB9 6-6.5	6-6.5	2/6/2014	0.011	<0.0048	<0.0048	<0.0048	<0.048	<0.0048	<0.0096	<0.0096
CB9-8	8	2/6/2014	0.0059	<0.0048	<0.0048	<0.0048	0.067	<0.0048	<0.0096	<0.0096
CB9 13-13.5	13-13.5	2/6/2014	<0.0049	<0.0049	<0.0049	<0.0049	0.062	<0.0049	<0.0098	<0.0098
CB10-3	3	2/6/2014	<b>0.87</b>	0.33	0.054	<0.0045	0.053	<0.0045	<0.0090	<0.0090
CB10-4	4	2/6/2014	0.0054	<0.47	0.21	0.0057	0.056	<0.0046	<0.0091	<0.0091
CB10 8-8.5	8-8.5	2/6/2014	<0.0046	<0.0046	0.035	<0.0046	<0.046	<0.0046	<0.0091	<0.0091
CB11 2.5-3	2.5-3	2/6/2014	0.021	<0.0042	<0.0042	<0.0042	<0.042	<0.0042	<0.0084	<0.0084
CB11 3-3.5	3-3.5	2/6/2014	0.031	<0.0045	<0.0045	<0.0045	<0.045	<0.0045	<0.0090	<0.0090
CB11-6	6	2/6/2014	0.16	0.012	0.0058	<0.0044	0.076	<0.0044	<0.0088	<0.0088
CB11-8	8	2/6/2014	<0.0047	<0.0047	<0.0047	<0.0047	0.048	<0.0047	<0.0093	<0.0093
CB11-10	10	2/6/2014	0.016	0.021	<0.0045	<0.0045	<0.045	<0.0045	<0.0090	<0.0090
CB11-11.5	11.5	2/6/2014	0.29	0.0098	<0.0045	<0.0045	0.11	0.0077	0.052	<0.0089
CB11 19-19.5	19-19.5	2/6/2014	<0.0047	<0.0047	<0.0047	<0.0047	0.052	<0.0047	<0.0095	<0.0095
CB12 2-2.5	2-2.5	2/7/2014	<b>16</b>	0.21	<0.023	<0.023	<0.23	<0.023	<0.046	0.046
CB12 4-4.5	4-4.5	2/7/2014	0.12	0.18	0.052	0.0046	<0.045	<0.0045	<0.0090	<0.0090
CB12 6-6.5	6-6.5	2/7/2014	0.29	0.0095	0.01	<0.0048	<0.048	<0.0048	<0.0095	<0.0095
CB12 7.5-8	7.5-8	2/7/2014	0.05	<0.0044	<0.0044	<0.0044	<0.049	<0.0044	<0.0088	<0.0088
CB12 9.5-10	9.5-10	2/7/2014	0.1	<0.0046	<0.0046	<0.0046	<0.046	<0.0046	<0.0091	<0.0091
CB12 12-12.5	12-12.5	2/7/2014	0.098	<0.0044	<0.0044	<0.0044	<0.044	<0.0044	<0.0087	<0.0087
CB12 14-14.5	14-14.5	2/7/2014	<b>3.6</b>	0.011	<0.0044	<0.0044	<0.044	0.0058	0.035	<0.0089
CB12 16.5-17	16.5-17	2/7/2014	0.091	<0.0045	<0.0045	<0.0045	0.11	<0.0045	<0.0091	<0.0091
CB12 22-22.5	22-22.5	2/7/2014	0.039	<0.0048	<0.0048	<0.0048	0.12	<0.0048	<0.0095	<0.0095
CB12 23-23.5	23-23.5	2/7/2014	0.041	<0.0046	<0.0046	<0.0046	<0.046	<0.0046	<0.0091	<0.0091
ESL Shallow (<9.8 feet)			0.7	0.46	0.19	0.67	0.5	3.3	2.3	1.2
ESL Deep (>9.8 feet)			0.7	0.46	0.19	0.67	0.5	3.3	2.3	1.2

**NOTES:**

- bgs Below ground surface.
- PCE Tetrachloroethene
- TCE Trichloroethene
- cis-1,2 DCE Cis-1,2 dichloroethene
- trans-1,2 DCE Trans-1,2 dichloroethene
- mg/kg Milligrams per kilogram.
- EPA Environmental Protection Agency
- No Data / Not Analyzed
- <0.0048 Constituent not detected above specific minimum laboratory reporting limit.
- BOLD** Reported value exceeds ESL.
- ESL Shallow Environmental screening level (Table A-2 : Commercial Land Use)/SWRCB Region 2 ESL Tables Interim Final - December 2013
- ESL Deep Environmental screening level (Table C-2 : Commercial Land Use)/SWRCB Region 2 ESL Tables Interim Final - December 2013

**TABLE 3  
Well Search Results**

580 Market Place Shopping Center  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California 94552

Location Number	DWR Log Number	Location of Well	Year Installed	Well Use	Total Depth (feet bgs)	Depth of Sanitary Seal (feet bgs)	Screened Interval (feet bgs)	Approximate Distance and Direction from Site	Field Verified
1	291581	Crow Canyon Place & Crow Canyon Road	1989	Irrigation	260	25	25 - 245	1,455 feet Northwest	N
2	14753	4000 Fraga Road	1971	Domestic	120	None	28 - 84	2,000 feet Southeast	N

Notes:

bgs Below ground surface



**Table 4**  
**Site Conceptual Model**  
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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
Geology	Site Geology	<p>Based on a review of geological maps obtained from the USGS, the site is situated on top of a thin veneer of Pleistocene aged alluvium overlying consolidated rocks of the Panoche Formation. The older alluvium is described as dissected alluvial deposits while the Panoche Formation is described as marine sandstone, siltstone, and shale with conglomerate lenses.</p> <p>The subsurface geologic materials encountered during subsurface investigation activities at the site have been described as unconsolidated silt and clay. It is assumed consolidated bedrock is present where direct-push drilling was met by refusal. The top of the assumed bedrock was encountered at various depths ranging from 23 feet bgs to 30 feet bgs. Cross-section diagrams illustrating the distribution of subsurface geology encountered beneath the site are provided as <b>Figures 9 through 11</b>. Copies of soil boring logs are provided in <b>Appendix A</b>.</p>	No data gap	No resolution needed
Hydrology	Regional Hydrology	<p>The site is located within the Castro Valley Groundwater Basin of the San Francisco Bay Hydrologic Region. This groundwater basin is described as an intermountain valley located approximately five miles east of the San Francisco Bay. The Castro Valley Groundwater Basin is bound by the San Lorenzo Creek to the east and by the Hayward Fault to the west extending from Lake Chabot to the intersection of Highway 238 and Jackson Street in Hayward. The basin is primarily drained by the San Lorenzo Creek and its tributaries.</p> <p>The principal water bearing formation within this groundwater basin is alluvium of Pleistocene age described as a heterogeneous unconsolidated mixture of gravel, sand, silt, and clay with a maximum thickness of 80 feet. Groundwater encountered within the alluvium is typically unconfined with limited yields to supply wells. The Pleistocene alluvium unconformably overlies</p>	No data gap	No resolution needed

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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
		<p>consolidated bedrock that is not considered to be water bearing.</p> <p>The closest surface water to the subject property has been identified as San Lorenzo Creek located approximately 700 feet south of the subject property.</p> <p>Presence of and depth to groundwater have not been determined as no groundwater was observed before encountering the assumed bedrock at depths between 23 and 32 feet bgs.</p>		
Hydrology	Site Hydrology	<p>A review of other contamination sites located within a one-mile search radius suggests that groundwater is encountered at depths ranging from 20 to 50 feet below grade. Groundwater has been reported to flow in a westerly direction. However, topography in the vicinity of the site is variable. As such, it is difficult to correlate depth to water data between other sites and this site. No groundwater has been encountered during investigations at this site to the maximum explored depth of 32 feet bgs. Bedrock was encountered at depths between 23 and 32 feet bgs. The site appears to sit upon a topographic high or ridge. The majority of the immediate vicinity of the site is paved which may inhibit infiltration of meteoric water into the subsurface. Therefore, it is likely that no groundwater is ever present above the assumed bedrock layer.</p> <p>Soil contamination has been documented to attenuate with depth and diminishes to concentration below ESLs. Therefore, concentrations are unlikely to impact deeper regional groundwater.</p>	No data gap	No resolution needed
Site History		<p>Current land use is the 580 Market Place Shopping Center, a 10.21-acre commercial shopping center developed in 1990, consisting of four buildings with 26 tenant spaces, of which 25 are currently occupied.</p> <p>580 Market Place is surrounded by residential developments.</p> <p>Prior to 1990, the property and surrounding area was used as</p>	No data gap	No resolution needed

**Table 4**  
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 580 Market Place Shopping Center  
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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
		<p>agricultural land with rural residential developments. Dryclean 580 has operated in its current location at 3937 East Castro Valley Boulevard since 1990. Site location is shown on <b>Figure 1</b>. Site plans and the location of drycleaner equipment are shown on <b>Figures 2 and 3</b>.</p>		
Release Source		<p>Certainty regarding the actual source of the release remains unknown. However, the most recent assessment indicates the likely release location was outside and approximately 15 feet south of the Dryclean 580 tenant unit. This is indicated by detection of the highest impacts in soil and soil vapor near the surface in the vicinity of boring soil vapor point SV-1, soil boring CB-12, and MIP-12. The mechanism responsible for the release has not been positively determined.</p> <p>Lower concentrations in sub-slab vapor collected from beneath the Dryclean 580 and adjacent tenant units indicate the release location may not have occurred from dry cleaning machinery or from activities inside the building. VOC concentrations in vapor detected beneath the building attenuate away from the identified source location outside the building. The vapors appear to have also migrated along the sewer utility trench to a greater extent to the south of the identified source location.</p> <p>The previously highest concentration of PCE in the subsurface was detected in soil gas at locations SG-5 and SG-11 by PES. These locations were adjacent to the subsurface sanitary sewer piping. PES postulated that the source of the moisture could have been a leak from a sewer pipe that changed direction in the vicinity of this location. The outside surfaces of retracted drilling rods from these borings were described as being "wet upon withdrawing them from the borehole". The release at this location would be consistent with an unintentional release via the disposal of condensate process water via the sewer; however PES did not have adequate data from outside the building to confirm this conclusion.</p>	No data gap	No resolution needed

**Table 4**  
**Site Conceptual Model**  
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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
		<p>Vapor samples collected from subslab borings inside the dry cleaning plant were greatest near the surface and attenuate with depth.</p> <p>Cardno ATC performed a Phase II Environmental Assessment in at the rear of Dryclean 580, advancing 4 borings to as deep as 15 feet bgs with no detection over the laboratory detection limit in any of the soil samples collected, with the exception of ATC-2 at 2 feet bgs where PCE was detected at 850 µg/kg. A sample obtained from the same boring, ATC-2 five feet deeper, the soil did not to contain PCE above the detection limit.</p> <p>Cardno ATC's most recent assessment showed significant decreases in VOC concentrations in sub-slab vapor and external (outside of the building) shallow soil vapor. Additionally, PCE daughter compounds were detected, which were not readily detected in previous assessments. Cardno ATC also conducted soil assessment using a membrane interface probe (MIP) followed by collection of soil samples adjacent to the MIP borings. Results of the soil assessment indicate that the likely release location was in the vicinity of MIP-12/CB-12.</p> <p>In addition to chlorinated VOCs, non-chlorinated VOCs were detected in soil and soil vapor. The source of these compounds is unknown. The distribution of acetone appears to be associated with the chlorinated hydrocarbon impacts, while the distribution of benzene, ethylbenzene, xylenes, and naphthalene appear to be unrelated. Of these compounds, detections of naphthalene and benzene in soil and external soil vapor were the only CHHSL exceedances; however these exceedances do not appear to pose a human health or environmental risk for the current property use. Therefore, Cardno ATC does not feel additional assessment of these compounds is necessary.</p>		

**Table 4**  
**Site Conceptual Model**  
 580 Market Place Shopping Center  
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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
Release Source	Source Removal	<p>According to the Phase I Environmental Assessment Report prepared by ATC Associates in February 2012 Dryclean 580 no longer utilizes PCE as a dry cleaning solvent, but currently uses a non-chlorinated hydrocarbon-based solvent in a closed loop system. Thus, the original source of the detected release has been removed.</p> <p>The release mechanism has not been identified, however Cardno ATC has identified the likely release point to be outside the Dryclean 580 and approximately 15 feet south of the back side of the Dryclean 580 tenant unit at boring CB-12. Soil impacts in this location represent a secondary source.</p>	No data gap	No resolution needed
Release Characteristics	Contaminants of Concern	<p>Currently the contaminants of concern include chlorinated hydrocarbons and daughter breakdown products from these chlorinated solvents including:</p> <ul style="list-style-type: none"> <li>• Trichloroethene (TCE)</li> <li>• Perchloroethylene/Tetrachloroethene (PCE)</li> <li>• Cis-1,2-Dichloroethene (cis-1,2-DCE)</li> <li>• Trans-1,2-Dichloroethene (trans-1,2-DCE)</li> <li>• Vinyl Chloride</li> </ul> <p>Chlorinated hydrocarbons have been detected in both soil vapor and soil and found to exceed CHHSLs in soil vapor samples, ESL in soil samples; sub-slab data exceeded commercial ESL for indoor air adjusted using a 0.05 slab attenuation factor.</p> <p>The source of these impacts is assumed to be activities associated with the Dryclean 580 and the subsequent degradation of chlorinated hydrocarbons released to the subsurface.</p> <p>Additionally, non-chlorinated organic compounds were detected in soil and external soil vapor including:</p>	Data Gap No. 1 – sub-slab data exceed indoor air-based ESL screening levels.	Perform quarterly sampling of semi-permanent sub-slab vapor Prove SS-3 and remediate residual contaminants in soil behind building.

**Table 4**  
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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
		<ul style="list-style-type: none"> <li>• Benzene</li> <li>• Ethylbenzene</li> <li>• Xylenes</li> <li>• Acetone</li> <li>• Naphthalene</li> </ul> <p>The source of these compounds is unknown. The distribution of acetone appears to be associated with the chlorinated hydrocarbon impacts, while the distribution of benzene, ethylbenzene, xylenes and naphthalene appear to be unrelated. Of these compounds, detections of naphthalene and benzene in soil and external soil vapor represent the only CHHSL exceedances. These compounds were not detected in sub-slab vapor.</p> <p>Maximum reported concentrations for compounds detected in soil are as follows:</p> <ul style="list-style-type: none"> <li>• TCE – 0.33 mg/kg</li> <li>• PCE – 16 mg/kg</li> <li>• cis-1,2 DCE – 0.21 mg/kg</li> <li>• trans-1,2 DCE - 0.0057</li> <li>• Ethylbenzene – 0.025 mg/kg</li> <li>• Xylenes – 0.16 mg/kg</li> <li>• Acetone – 0.15 mg/kg</li> <li>• Naphthalene – 18 mg/kg</li> </ul> <p>Current maximum reported concentrations for compounds detected in soil vapor are as follows:</p> <ul style="list-style-type: none"> <li>• TCE – 1,400 µg/m<sup>3</sup></li> <li>• PCE - 9,500 µg/m<sup>3</sup></li> </ul>		

**Table 4**  
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CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
		<ul style="list-style-type: none"> <li>• cis-1,2 DCE- 7,400 µg/m<sup>3</sup></li> <li>• trans-1,2 DCE – 300 µg/m<sup>3</sup></li> <li>• Vinyl chloride – 190 µg/m<sup>3</sup></li> <li>• Benzene – 400 µg/m<sup>3</sup></li> <li>• Ethylbenzene - 270 µg/m<sup>3</sup></li> <li>• Xylenes – 910 µg/m<sup>3</sup></li> </ul> <p>Current maximum reported concentration for compounds detected in in sub-slab vapor are as follows:</p> <ul style="list-style-type: none"> <li>• TCE – 1,200 µg/m<sup>3</sup></li> <li>• PCE – 380 µg/m<sup>3</sup></li> </ul> <p>Current and historical data are summarized in <b>Tables 1 and 2</b>. The horizontal and vertical distribution of contaminants is shown on <b>Figures 4 through 8, 10, and 11</b>.</p>		
Release Characteristics	Estimated Mass in Soil	Concentrations of contaminants are not significant enough to warrant mass estimation.	No data gap	No resolution needed
Release Characteristics	Observed LNAPL	No observations, up to this point, have indicated the presence of LNAPL.	No data gap	No resolution needed
Release Characteristics	Groundwater Impact	No saturated soil indicative of groundwater was observed at any of the boring locations and soil attenuates to below ESLs before reaching bedrock. No groundwater impact is suspected.	No groundwater encountered.	No resolution needed
Release Characteristics	Estimated Mass in Groundwater	Not applicable.	No data gap	No resolution needed

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580 Market Place Shopping Center  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California 94552

CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
Sensitive Receptor Survey	Building Occupants	<p>Sub-slab vapor data indicates concentrations of sub-slab soil vapor beneath occupied tenant spaces are slightly exceed conservative indoor air ESL-based screening levels with the exception of the sample from SS-3 and do not pose an acute vapor intrusion risk. Therefore, the indoor air survey proposed in in the work plan was not completed and is not necessary at this time.</p> <p>Additional shallow soil vapor sample data collected from exterior points indicates the presence of VOC concentrations exceeding applicable CHHSLs. However, because no structures overlay these points, there is no apparent vapor intrusion risk to building occupants with the current property use.</p> <p>During sub-slab vapor installation it was noted that the building slab is underlain by moisture barrier that may further inhibit vapor intrusion risks.</p>	Data Gap No. 1 – sub-slab data exceed indoor air-based ESL screening levels.	Perform quarterly sampling of semi-permanent sub-slab vapor Prove SS-3 and remediate residual contaminants in soil behind building.
Sensitive Receptor Survey	Sensitive Human Receptors	<p>Cardno conducted a sensitive receptor survey within a 2,000-foot search radius of the site. The purpose of this survey was to identify domestic water supply wells, schools, hospitals, elderly care homes, daycare centers, and other public domains.</p> <p>Cardno conducted an internet based search for public domains within the search radius and found several locations including; Independent Elementary School located at 21201 Independent School Road, Transfiguration Catholic Church located at 4000 East Castro Valley Boulevard, and Castro Valley Masonic Center located at 4521 Crow Canyon Place.</p> <p>The impacts in soil and soil vapor have been adequately defined and are contained to the central portion of this large shopping center property. There are no offsite impacts.</p>	No data gap	No resolution needed



**Table 4**  
**Site Conceptual Model**  
580 Market Place Shopping Center  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California 94552

CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
		<p>Risks to onsite occupants have been address through comparison of soil vapor data to applicable CHHSLs. Comparison indicates soil vapor beneath the tenant units in the study area do not pose a threat to human health.</p> <p>Locations of wells and public domains are presented on <b>Figure 12</b>.</p>		
Sensitive Receptor Survey	Surface Water Bodies	Don Castro Reservoir is located approximately 1,200 feet down-gradient of the site. Impacts are to soil and soil vapor only. There is no indication that groundwater has been impact, there is no means to transport contaminants to this surface water body.	No data gap	No resolution needed
Sensitive Receptor Survey	Nearby Wells	Cardno submitted Well Data Requests to the Department of Water Resources (DWR) and the Alameda County Public Works Department. No well information was provided by Alameda County Public Works Department. Well data provided by the DWR included three domestic wells within the search radius classified as domestic and/or irrigation. Impacts are to soil and soil vapor only. There is no indication that groundwater has been impacted, there is no means to transport contaminants to these wells. Well information is provided in <b>Table 3</b> .	No data gap	No resolution needed
Risk Evaluation	man-made conduits/ other potential preferential pathways	A physical utility survey was conducted as part of the recent 2014 Data Gap Investigation utility conduits identified in the study area include sanitary sewer and a combined telephone/gas/electrical corridor. These utilities are shown on Figures 2 and 3..	No data gap	No resolution needed
Risk Evaluation	Plume Stability	Not applicable. No groundwater contamination is suspected.	No data gap	No resolution needed
Risk Evaluation	Return to	Not applicable. No groundwater contamination is suspected.	No data gap.	No resolution

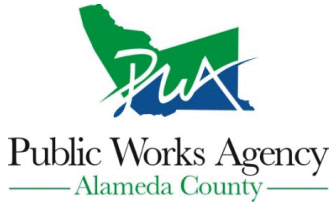
**Table 4**  
**Site Conceptual Model**  
 580 Market Place Shopping Center  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California 94552

CSM Element	CSM Sub-Element	Description	Data Gap Item # / description	Resolution
	WQO			needed
Source Removal Activities		Cardno recommends remediating shallow impacts soils in the immediate vicinity of boring CB-12. Remediating these impacts will reduce the majority of residual impacts that potentially affect sub-slab vapor, thereby reducing vapor intrusion risks. Additionally, remediation of these soils will reduce human health risks for future construction work involving excavation and vapor intrusion risks should occupied spaces ever be constructed over this area.	Data gap #2: Remediation methods for impacts exceeding CHSSLs and ESLs in the source area should be evaluated.	Prepare a remediation Feasibility Study



**APPENDIX A**  
**WELL CONSTRUCTION PERMIT**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/30/2013 By jamesy

Permit Numbers: W2013-1040 to W2013-1041  
Permits Valid from 01/06/2014 to 02/03/2014

Application Id: 1388101592655  
Site Location: 3735-4065 Castro Valley Blvd  
Project Start Date: 01/06/2014  
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Castro Valley

Completion Date: 02/03/2014

Applicant: Cardno ATC - Scott Perkins  
6602 Owens Dr #100, Pleasanton, CA 94588  
Property Owner: Weingarten Realty Investors  
2600 Citadel Plaza Dr #200, Houston, TX 77008  
Client: \*\* same as Property Owner \*\*

Phone: 925-460-5300

Phone: 713-866-6855

Receipt Number: WR2013-0490 Total Due: \$530.00  
Payer Name : ATC Associates Total Amount Paid: \$530.00  
Paid By: CHECK PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 21 Boreholes  
Driller: Vironex - Lic #: 705927 - Method: DP

Work Total: \$265.00

## Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-1040	12/30/2013	04/06/2014	21	2.00 in.	25.00 ft

## Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least

## Alameda County Public Works Agency - Water Resources Well Permit

five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

### 7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

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Well Construction-Vapor monitoring well-Vapor monitoring well - 9 Wells

Driller: Teg Northern CA - Lic #: 706568 - Method: other

**Work Total: \$265.00**

### Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2013-1041	12/30/2013	04/06/2014	VP10	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP11	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP12	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP4	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP5	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP6	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP7	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP8	0.00 in.	0.00 in.	2.00 ft	0.00 ft
W2013-1041	12/30/2013	04/06/2014	VP9	0.00 in.	0.00 in.	2.00 ft	0.00 ft

### Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

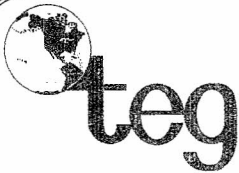
2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

## Alameda County Public Works Agency - Water Resources Well Permit

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
  4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
  5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
  6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.
  7. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
  8. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to [stevem@acpwa.org](mailto:stevem@acpwa.org) at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
  9. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
  10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
  11. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.
- Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.
-

**APPENDIX B**  
**MOBILE LABORATORY ANALYTICAL RESULTS**





Cardno ATC Project # 75.75354.0002  
 580 Market Place  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California

TEG Project #40106F

Analyses of SOIL VAPOR

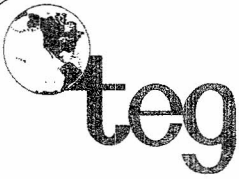
EPA Method 8260B VOC Analyses in micrograms per cubic meter of Vapor

Methane in ppmV; Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		Probe Blank	Probe Blank	Probe Blank	SS-1	SS-2	SS-3	SS-3 dup
SAMPLE DEPTH (feet):					0.58	0.58	0.58	0.58
PURGE VOLUME:					3	3	3	3
COLLECTION DATE:		01/06/14	01/07/14	01/17/14	01/06/14	01/06/14	01/06/14	01/06/14
COLLECTION TIME:		10:22	08:08	09:10	11:25	11:54	12:22	12:50
DILUTION FACTOR (VOCs):		1	1	1	1	1	1	1
	RL							
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd
<b>Vinyl Chloride</b>	13	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd
<b>1,1-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd
<b>trans-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>cis-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	nd	nd	nd	nd	nd	nd
<b>Benzene</b>	35	nd	nd	nd	nd	nd	nd	nd
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd	160	150
<b>Toluene</b>	200	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	nd	nd	nd	130	nd	1200	1100
<b>Ethylbenzene</b>	100	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>m,p-Xylene</b>	200	nd	nd	nd	nd	nd	nd	nd
<b>o-Xylene</b>	100	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd	nd	nd
Oxygen	1.0	21	21	21	21	21	21	21
Carbon Dioxide	1.0	nd	nd	nd	nd	nd	nd	nd
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		93%	95%	118%	99%	99%	100%	101%
Surrogate Recovery (1,2-DCA-d4)		93%	106%	110%	100%	102%	98%	97%
Surrogate Recovery (1,4-BFB)		97%	106%	119%	101%	103%	103%	100%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Cardno ATC Project # 75.75354.0002  
 580 Market Place  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California

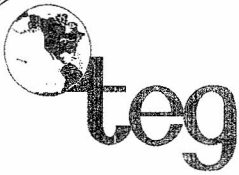
TEG Project #40106F

Analyses of SOIL VAPOR  
 EPA Method 8260B VOC Analyses in micrograms per cubic meter of Vapor  
 Methane in ppmV; Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:	SS-4	SS-5	SS-5 dup	SS-6	SS-7	SS-8	SS-9
SAMPLE DEPTH (feet):	0.58	0.58	0.58	0.58	0.58	0.58	0.66
PURGE VOLUME:	3	3	3	3	3	3	3
COLLECTION DATE:	01/06/14	01/07/14	01/07/14	01/07/14	01/07/14	01/07/14	01/17/14
COLLECTION TIME:	13:18	10:28	10:28	09:55	12:05	12:39	09:36
DILUTION FACTOR (VOCs):	1	1	1	1	1	1	1
	RL						
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd
<b>Vinyl Chloride</b>	13	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd
<b>1,1-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd
<b>trans-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd
<b>cis-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	nd	nd	nd	nd	nd
<b>Benzene</b>	35	nd	nd	nd	nd	nd	nd
<b>Trichloroethene</b>	100	nd	nd	nd	nd	120	380
<b>Toluene</b>	200	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	180	160	160	nd	150	260
<b>Ethylbenzene</b>	100	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
<b>m,p-Xylene</b>	200	nd	nd	nd	nd	nd	nd
<b>o-Xylene</b>	100	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd	nd
Oxygen	1.0	21	21	21	21	21	19
Carbon Dioxide	1.0	nd	nd	nd	nd	nd	nd
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		105%	92%	90%	91%	88%	97%
Surrogate Recovery (1,2-DCA-d4)		105%	90%	92%	97%	87%	93%
Surrogate Recovery (1,4-BFB)		107%	99%	96%	102%	96%	100%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Cardno ATC Project # 75.75354.0002  
 580 Market Place  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California

TEG Project #40106F

Analyses of SOIL VAPOR

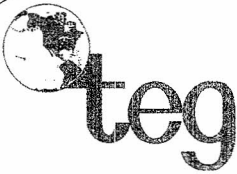
EPA Method 8260B VOC Analyses in micrograms per cubic meter of Vapor

Methane in ppmV; Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:	SS-10	SS-10 dup	SV-1	SV-1	SV-1	SV-2	SV-3
SAMPLE DEPTH (feet):	0.66	0.66	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:	3	3	1	3	10	1	1
COLLECTION DATE:	01/17/14	01/17/14	01/06/14	01/06/14	01/06/14	01/06/14	01/06/14
COLLECTION TIME:	10:02	10:02	14:18	14:45	15:10	15:40	16:05
DILUTION FACTOR (VOCs):	1	1	1	1	1	1	1
	RL						
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd
<b>Vinyl Chloride</b>	13	nd	nd	190	160	97	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd
<b>1,1-Dichloroethene</b>	100	nd	nd	280	220	170	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd
<b>trans-1,2-Dichloroethene</b>	100	nd	nd	330	230	180	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd
<b>cis-1,2-Dichloroethene</b>	100	nd	nd	7400	4600	3700	nd
Chloroform	100	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	nd	nd	nd	nd	nd
<b>Benzene</b>	35	nd	nd	nd	nd	nd	110
<b>Trichloroethene</b>	100	nd	nd	600	380	400	nd
<b>Toluene</b>	200	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	nd	nd	9500	5900	5000	190
<b>Ethylbenzene</b>	100	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
<b>m,p-Xylene</b>	200	nd	nd	nd	nd	nd	nd
<b>o-Xylene</b>	100	nd	nd	nd	nd	nd	nd
1,1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd	nd
Oxygen	1.0	20	20	19	21	21	9.8
Carbon Dioxide	1.0	nd	nd	3.2	nd	nd	25
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		100%	107%	99%	91%	90%	96%
Surrogate Recovery (1,2-DCA-d4)		97%	111%	99%	92%	93%	102%
Surrogate Recovery (1,4-BFB)		101%	115%	102%	98%	95%	100%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Cardno ATC Project # 75.75354.0002  
 580 Market Place  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California

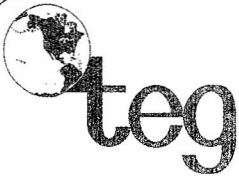
TEG Project #40106F

Analyses of SOIL VAPOR  
 EPA Method 8260B VOC Analyses in micrograms per cubic meter of Vapor  
 Methane in ppmV; Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		SV-4	SV-5	SV-6	SV-7	SV-8	SV-9	SV-10
SAMPLE DEPTH (feet):		5.0	5.0	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:		1	1	1	1	1	1	1
COLLECTION DATE:		01/07/14	01/07/14	01/07/14	01/07/14	01/07/14	01/17/14	01/17/14
COLLECTION TIME:		09:25	11:38	14:50	15:26	15:40	10:48	11:12
DILUTION FACTOR (VOCs):		1	1	1	1	1	1	1
	RL							
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd
<b>Vinyl Chloride</b>	13	nd	110	110	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd
<b>1,1-Dichloroethene</b>	100	nd	nd	110	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd
<b>trans-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>cis-1,2-Dichloroethene</b>	100	nd	650	960	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	nd	nd	nd	nd	nd	nd
<b>Benzene</b>	35	72	56	83	nd	nd	170	170
<b>Trichloroethene</b>	100	nd	450	1400	nd	nd	nd	nd
<b>Toluene</b>	200	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	nd	nd	1800	3600	nd	160	nd
<b>Ethylbenzene</b>	100	nd	nd	nd	nd	nd	190	270
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
<b>m,p-Xylene</b>	200	nd	nd	nd	nd	nd	560	910
<b>o-Xylene</b>	100	nd	nd	nd	nd	nd	160	270
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd	nd	nd
Oxygen	1.0	12	17	18	10	17	13	10
Carbon Dioxide	1.0	9.3	3.2	3.3	6.4	2.7	2.9	5.3
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		96%	93%	91%	106%	90%	104%	102%
Surrogate Recovery (1,2-DCA-d4)		100%	91%	94%	106%	89%	112%	105%
Surrogate Recovery (1,4-BFB)		102%	98%	102%	111%	95%	113%	111%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Cardno ATC Project # 75.75354.0002  
 580 Market Place  
 3735-4065 East Castro Valley Boulevard  
 Castro Valley, California

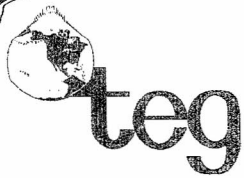
TEG Project #40106F

Analyses of SOIL VAPOR  
 EPA Method 8260B VOC Analyses in micrograms per cubic meter of Vapor  
 Methane in ppmV; Oxygen and Carbon Dioxide in percent by Volume

SAMPLE NUMBER:		SV-11	SV-12	SV-13	SV-14	SV-15
SAMPLE DEPTH (feet):		5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:		1	1	1	1	1
COLLECTION DATE:		01/17/14	01/17/14	01/17/14	01/17/14	01/17/14
COLLECTION TIME:		11:34	11:53	12:18	12:45	13:55
DILUTION FACTOR (VOCs):		1	1	1	1	1
	RL					
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd
<b>Vinyl Chloride</b>	13	nd	43	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd
<b>1,1-Dichloroethene</b>	100	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd
<b>trans-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd
<b>cis-1,2-Dichloroethene</b>	100	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd
Carbon Tetrachloride	25	nd	nd	nd	nd	nd
1,2-Dichloroethane	45	nd	nd	nd	nd	nd
<b>Benzene</b>	35	93	290	400	150	150
<b>Trichloroethene</b>	100	nd	nd	nd	nd	nd
<b>Toluene</b>	200	nd	nd	280	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd
<b>Tetrachloroethene</b>	100	2200	nd	nd	nd	nd
<b>Ethylbenzene</b>	100	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd
<b>m,p-Xylene</b>	200	270	nd	nd	nd	nd
<b>o-Xylene</b>	100	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd
Methane	1000	nd	nd	nd	nd	nd
Oxygen	1.0	11	8.8	13	5.5	4.9
Carbon Dioxide	1.0	6.9	7.5	7.7	11	8.9
1,1-Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		98%	106%	101%	107%	99%
Surrogate Recovery (1,2-DCA-d4)		104%	103%	103%	107%	102%
Surrogate Recovery (1,4-BFB)		112%	114%	109%	115%	101%

'RL' Indicates reporting limit at a dilution factor of 1  
 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab  
 Analyses performed by: Mr. Lane Sharon



Cardno ATC Project # 75.75354.0002  
580 Market Place  
3735-4065 East Castro Valley Boulevard  
Castro Valley, California

TEG Project #40106F

CALIBRATION DATA - Calibration Check Compounds

	Vinyl Chloride	1,1 DCE	Chloroform	1,2 DCP	Toluene	Ethylbenzene
Midpoint	10.0	10.0	10.0	10.0	10.0	10.0

Continuing Calibration - Midpoint

01/06/14	10.0 100%	10.0 100%	10.2 102%	10.9 109%	11.3 113%	11.6 116%
01/07/14	8.1 81%	8.3 83%	9.2 92%	9.9 99%	10.0 100%	10.1 101%
01/17/14	11.7 117%	11.3 113%	11.2 112%	11.7 117%	11.7 117%	10.0 100%

**APPENDIX C**  
**MEMBRANE INTERFACE PROBE LOGS**



## **Membrane Interface Probe Investigation Report**

**580 Marketplace  
3735 E Castro Valley Boulevard  
Castro Valley, California 94552**

### **Prepared for:**

Cardno ATC  
6602 Owens Drive  
Suite 100  
Pleasanton, California 94588

### **Prepared by:**

Vironex, Inc.  
1641 Challenge Drive  
Concord, California 94520

February 12, 2014

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## Project Summary

**Project Name:** 580 Marketplace

**Project Dates:** February 3<sup>rd</sup> through 5<sup>th</sup>, 2014

**Equipment/Manpower:** Vironex mobilized one custom Membrane Interface Probe (MIP) System, one specialist and two team members to the project site.

**Project Summary:** Vironex advanced 15 direct push MIP borings from the ground surface to between approximately 21 feet and 35 feet below ground surface (bgs). For the purposes of this project, the MIP system was equipped with an electron capture detector (ECD), halogen-specific detector (XSD), photo-ionization detector (PID), and flame-ionization detector (FID). During the advancement of each boring, the response of each detector, relative to depth, was recorded in accordance with the standard operating procedures for the MIP system. The details associated with each boring are presented below.

MIP Boring	Date	Time	Total Depth	Notes
MIP-01	02.03.14	09:00	26.45	Hand auger to 3 feet bgs.
MIP-02	02.03.14	10:09	25.95	Hand auger to 3 feet bgs.
MIP-03	02.03.14	11:02	23.85	Hand auger to 3 feet bgs. Advanced MIP to refusal.
MIP-04	02.03.14	13:11	25.50	Hand auger to 3 feet bgs. Advanced MIP to refusal.
MIP-05	02.03.14	13:58	24.50	Hand auger to 3 feet bgs. Advanced MIP to refusal.
MIP-06	02.04.14	08:03	25.65	None.
MIP-07	02.04.14	08:54	26.20	None.
MIP-08	02.04.14	09:53	25.50	None.
MIP-09	02.04.14	11:39	24.40	Advanced MIP to refusal.
MIP-10	02.04.14	12:34	23.45	Hand auger to 3 feet bgs. Advanced MIP to refusal.
MIP-11	02.04.14	13:30	23.80	Advanced MIP to refusal.
MIP-12	02.04.14	14:13	26.05	None.
MIP-13	02.05.14	09:26	21.15	Advanced MIP to refusal.
MIP-14	02.05.14	11:10	34.80	Advanced MIP to refusal.
MIP-15	02.05.14	13:27	31.80	Advanced MIP to refusal.

The MIP boring logs are presented in Appendix A and B. The detector response scales for boring logs in Appendix A are automatically chosen based on the highest response during each boring. The detector response scales for boring logs in Appendix B are set to a common scaled based on the highest detector response observed across all borings at the site. Additional information regarding the principals and procedures associated with the MIP system is presented in Appendix C.

**Quality Assurance/Quality Control:** In order to maintain quality assurance and quality control standards during the course of the project, a response test was completed before and after each MIP boring (additional details regarding response testing are provided in Appendix C). The response test indicates that the MIP system is operating properly, and therefore, may be advanced into the subsurface. All response testing conducted during the project were within the applicable Geoprobe guidelines. Additionally, the internal carrier gas pressure of the system and MIP temperature were monitored during the advancement of each MIP boring to ensure the system was functioning properly.

## Appendix A – MIP Boring Logs (Auto-Scale)

---



1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
 www.vironex.com

### Boring Name : MIP-01

Total Depth : 26.45  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

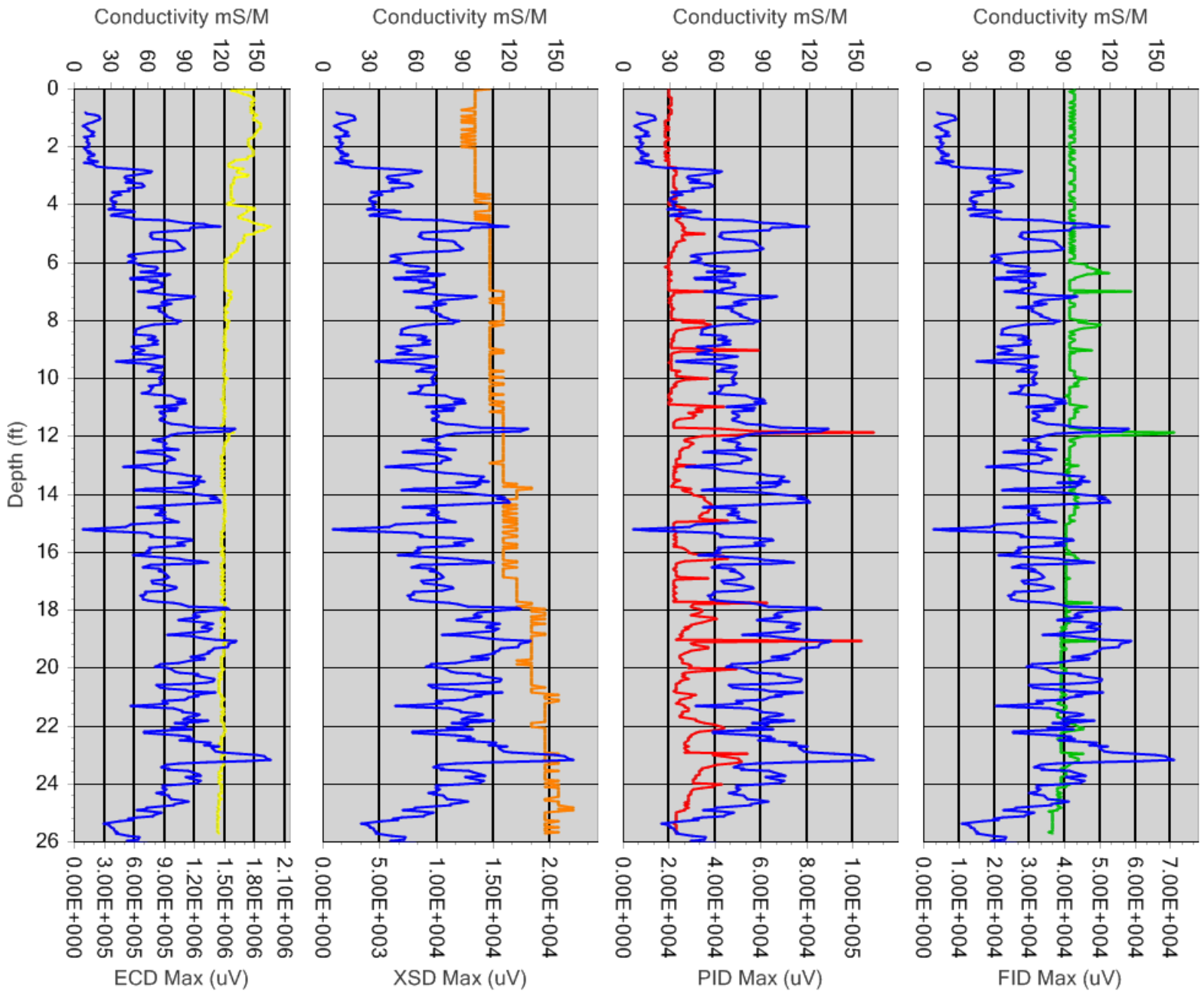
Hand auger to 3 feet bgs.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 09:00:07
End Boring Time :	Feb 03 2014 09:49:38
MIP Specialist :	Jeff Paul





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 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
 www.vironex.com

### Boring Name : MIP-02

Total Depth : 25.95  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

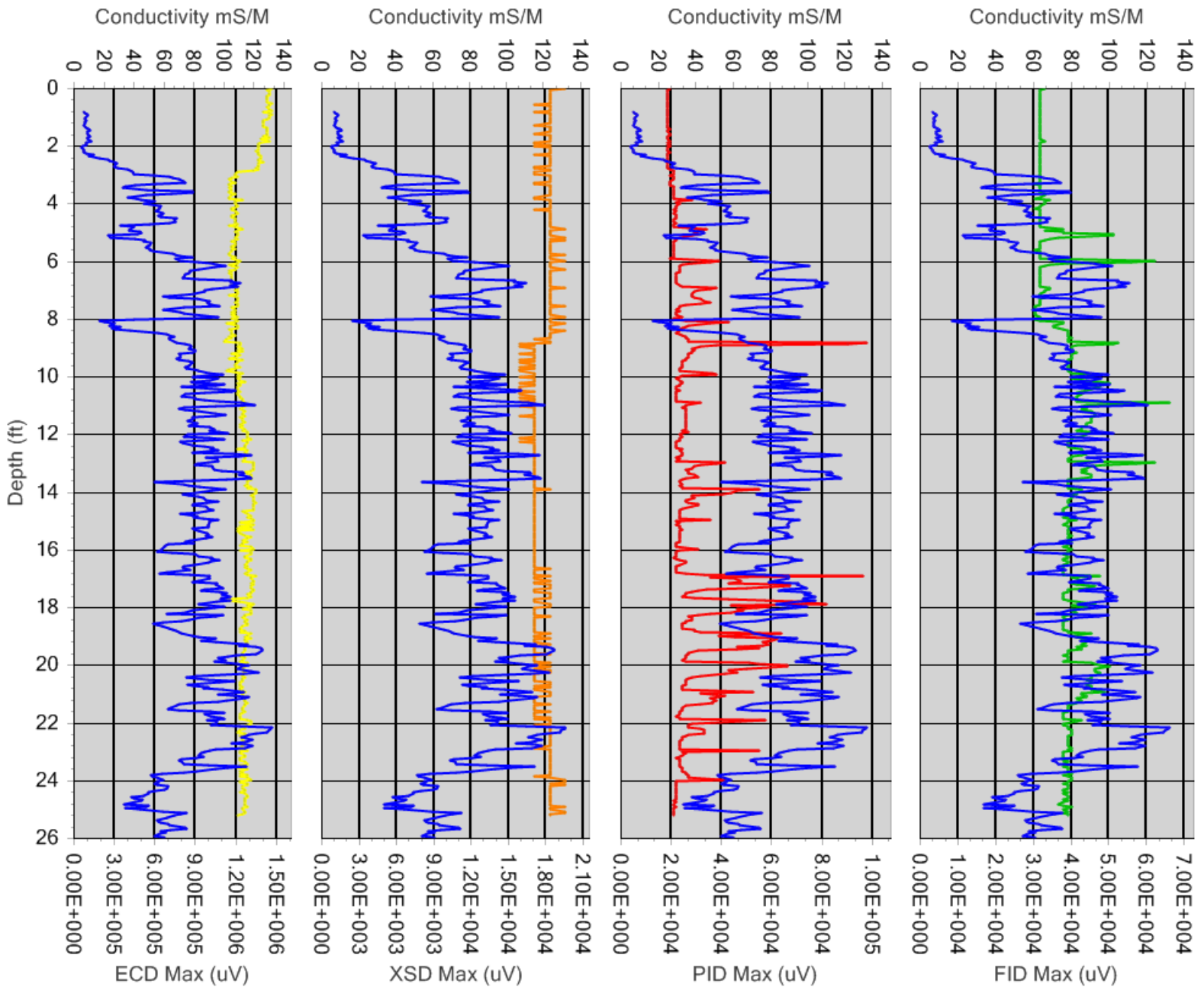
Hand auger to 3 feet bgs.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 10:09:09
End Boring Time :	Feb 03 2014 10:40:25
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
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### Boring Name : MIP-03

Total Depth : 23.85  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

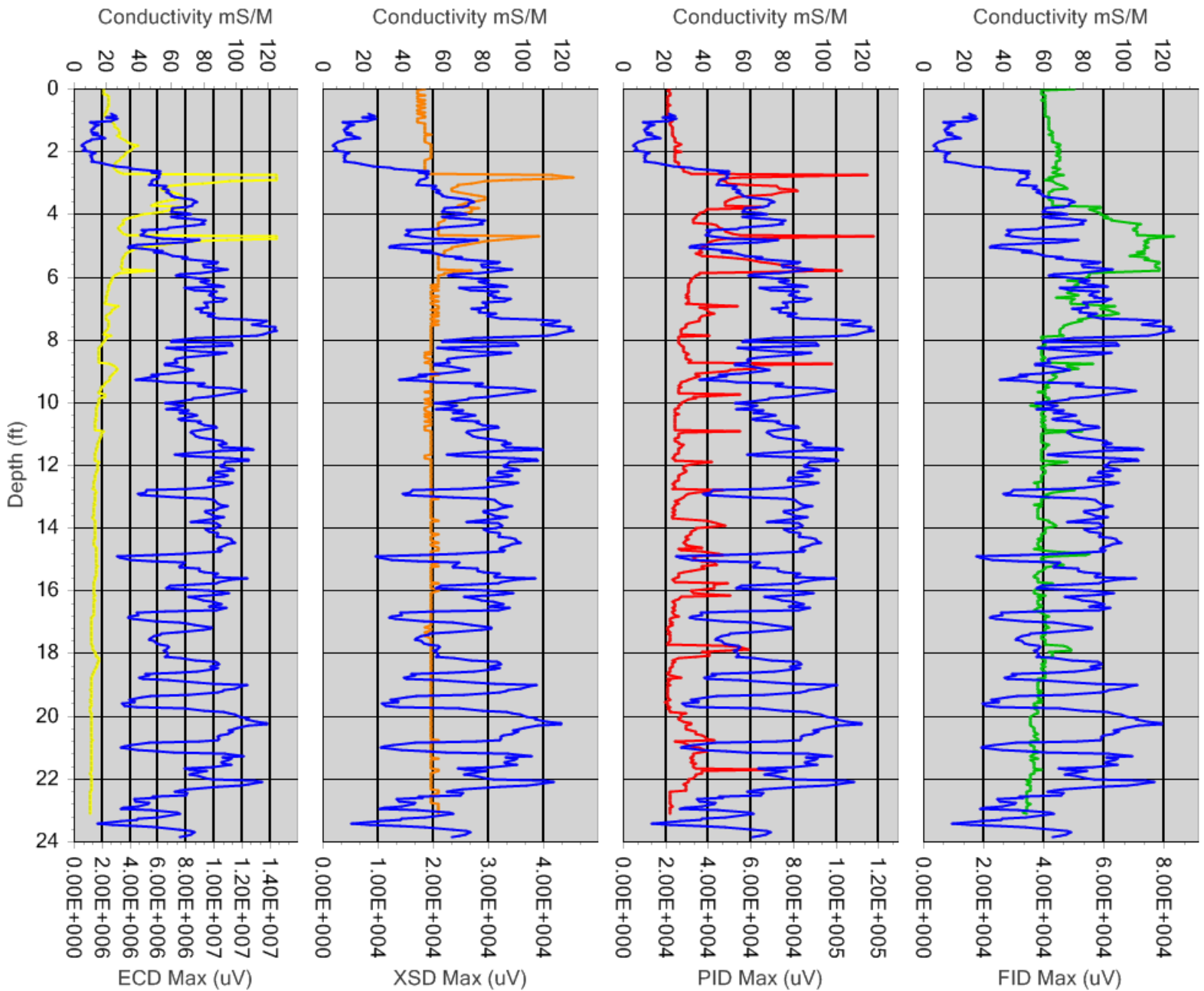
Hand auger to 3 feet bgs. Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 11:02:37
End Boring Time :	Feb 03 2014 11:36:51
MIP Specialist :	Jeff Paul





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 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
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## Boring Name : MIP-04

Total Depth : 25.50  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

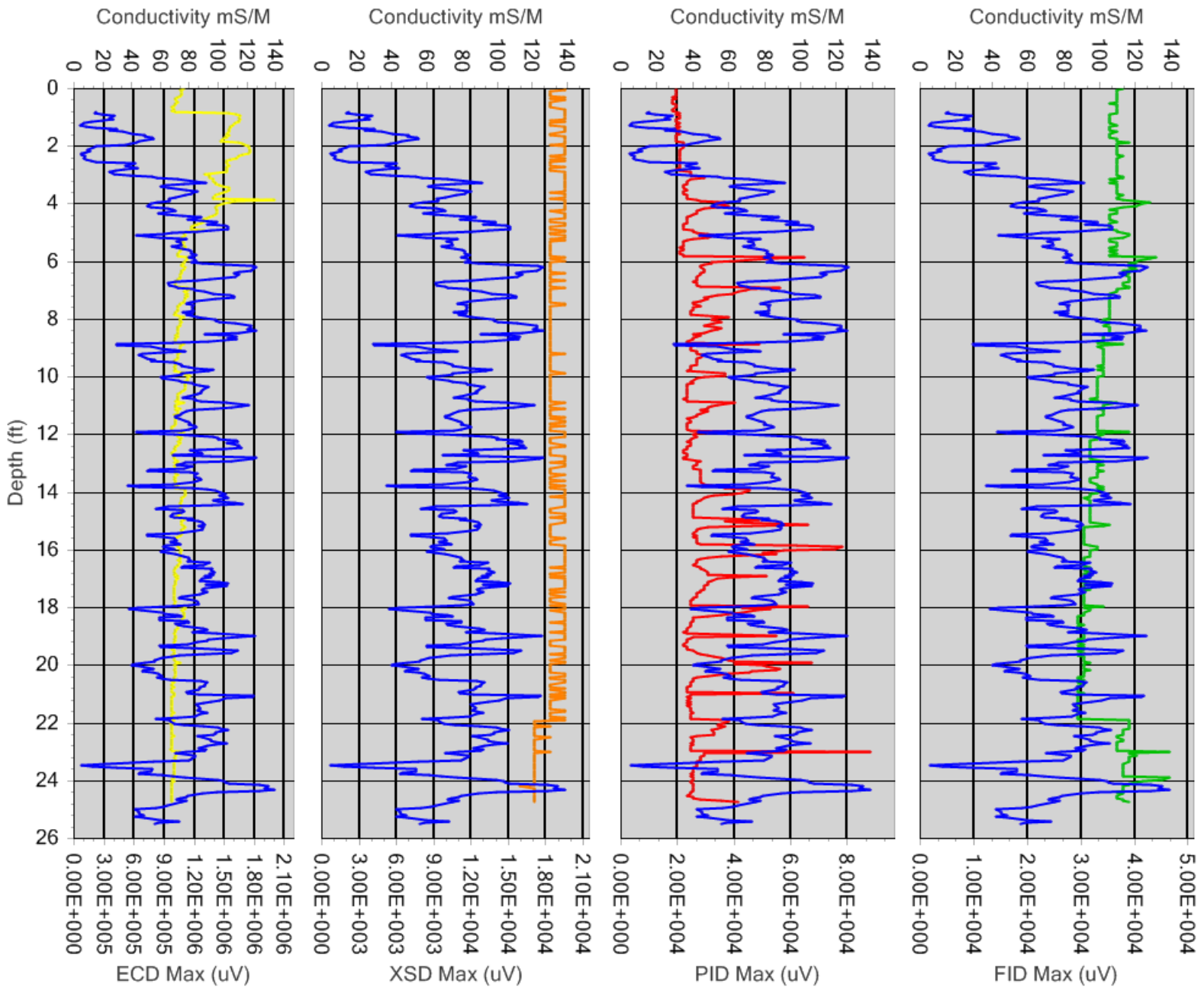
Hand auger to 3 feet bgs. Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 03 2014 13:11:52
End Boring Time :	Feb 03 2014 13:47:22
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
Concord, CA 94520  
P: 925-849-6970  
F: 925-849-6973  
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### Boring Name : MIP-05

Total Depth : 24.50  
GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

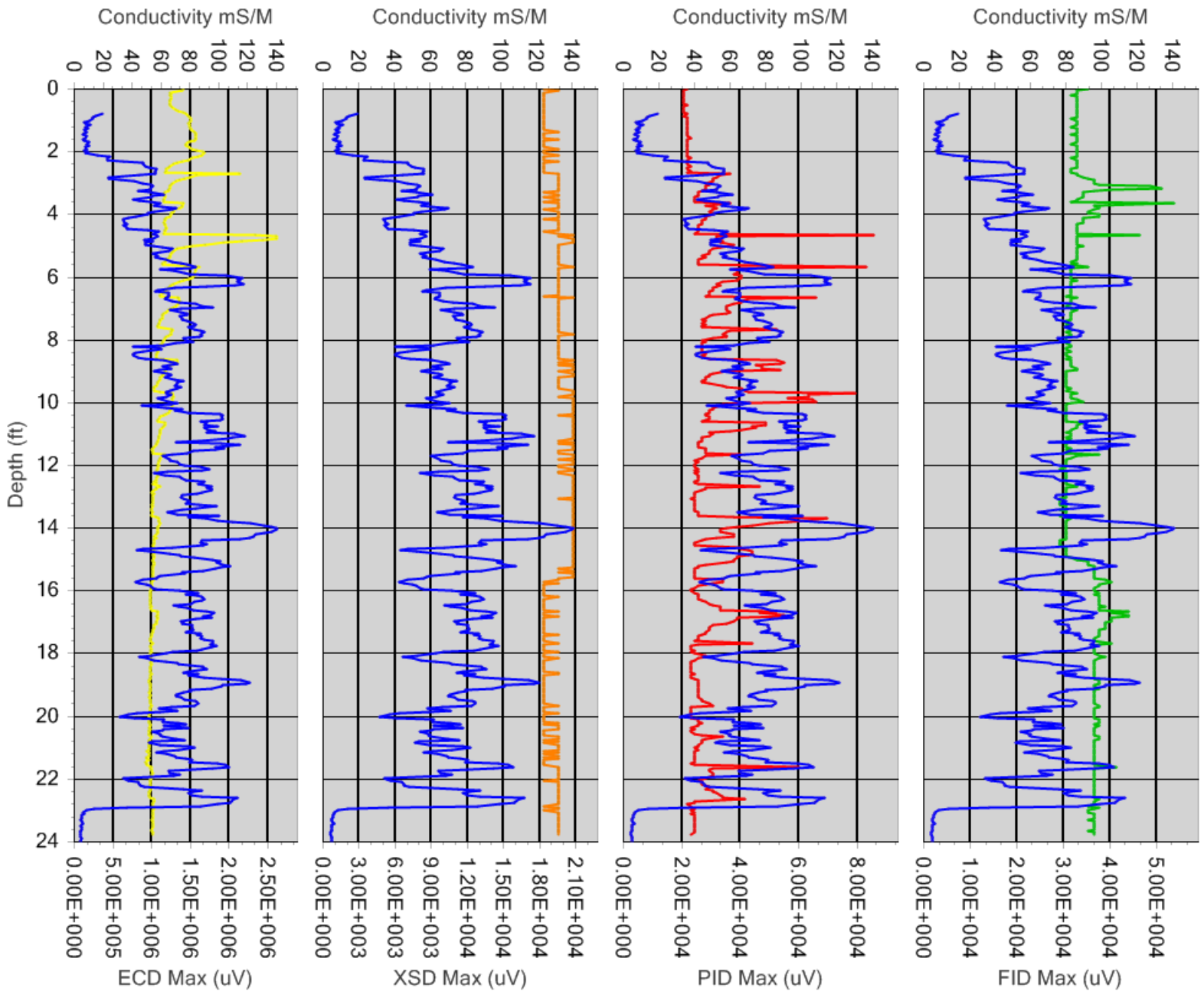
Hand auger to 3 feet bgs. Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 13:58:40
End Boring Time :	Feb 03 2014 14:27:49
MIP Specialist :	Jeff Paul







1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
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### Boring Name : MIP-06

None.

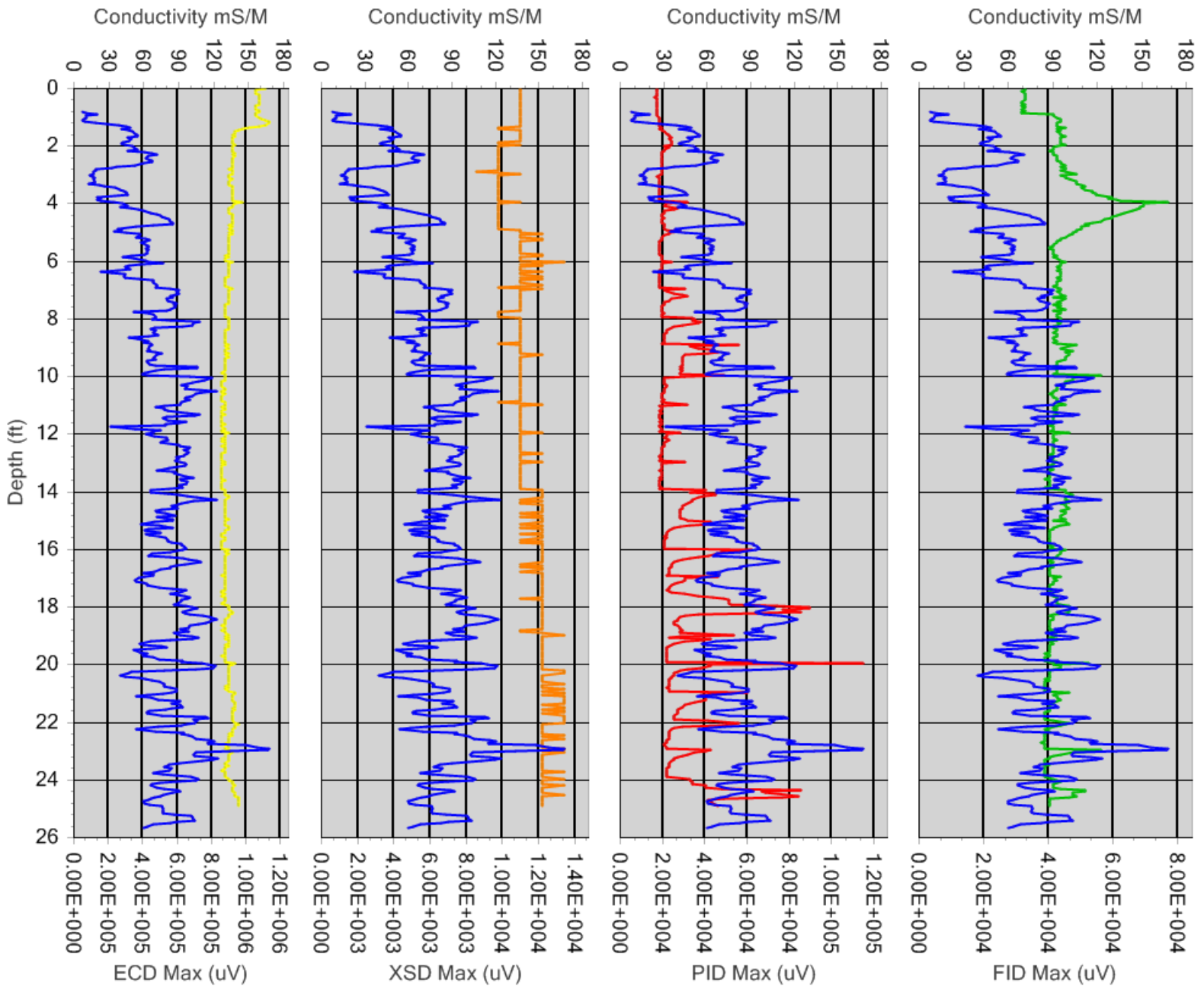
Total Depth : 25.65  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 08:03:28
End Boring Time :	Feb 04 2014 08:35:43
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
 www.vironex.com

### Boring Name : MIP-07

None.

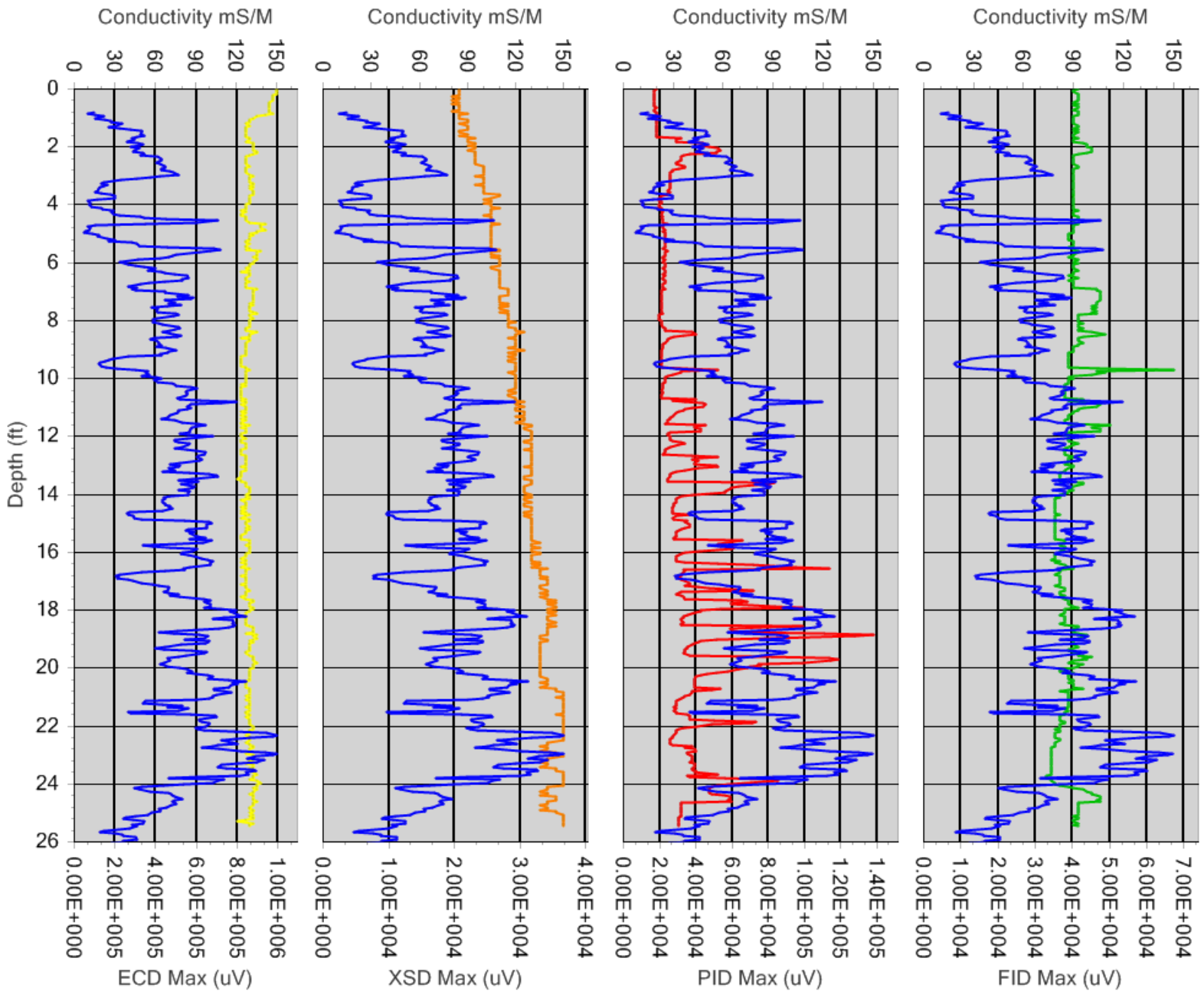
Total Depth : 26.20  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 08:54:46
End Boring Time :	Feb 04 2014 09:29:50
MIP Specialist :	Jeff Paul





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### Boring Name : MIP-08

Total Depth : 25.50  
GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

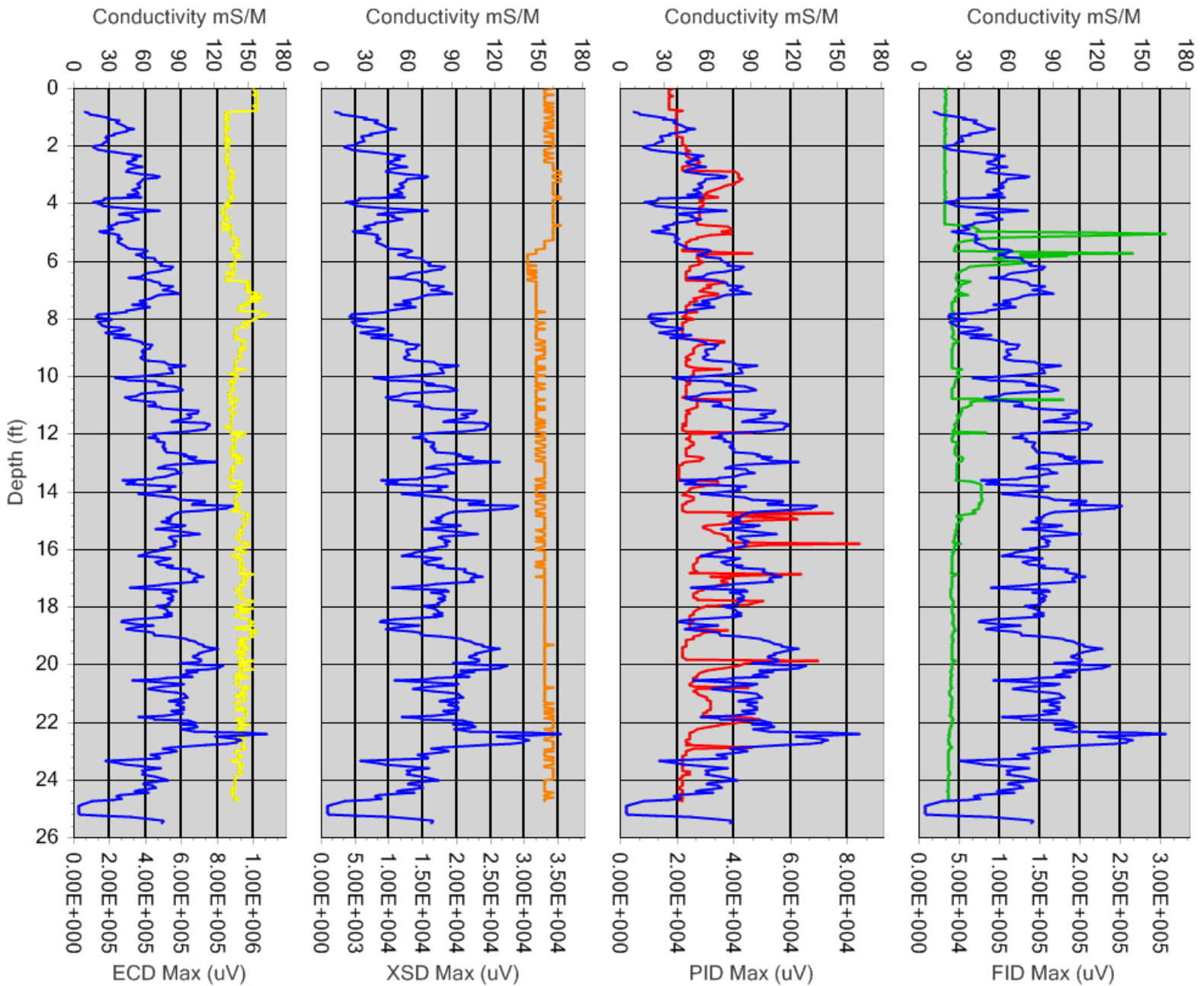
None.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 09:53:48
End Boring Time :	Feb 04 2014 10:24:20
MIP Specialist :	Jeff Paul





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P: 925-849-6970  
F: 925-849-6973  
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### Boring Name : MIP-09

Total Depth : 24.40  
GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

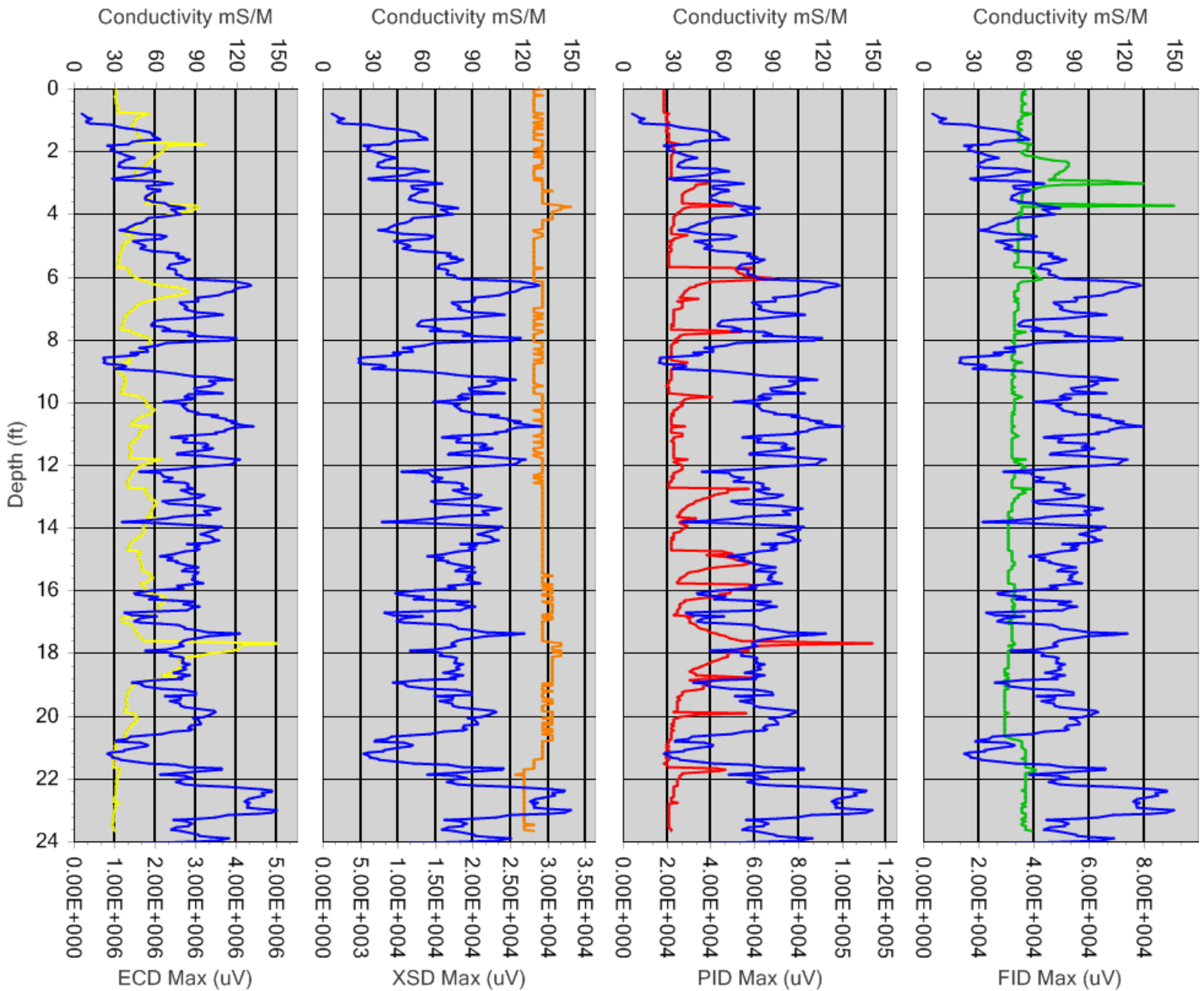
Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 11:39:53
End Boring Time :	Feb 04 2014 12:07:40
MIP Specialist :	Jeff Paul





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 P: 925-849-6970  
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## Boring Name : MIP-10

Total Depth : 23.45  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

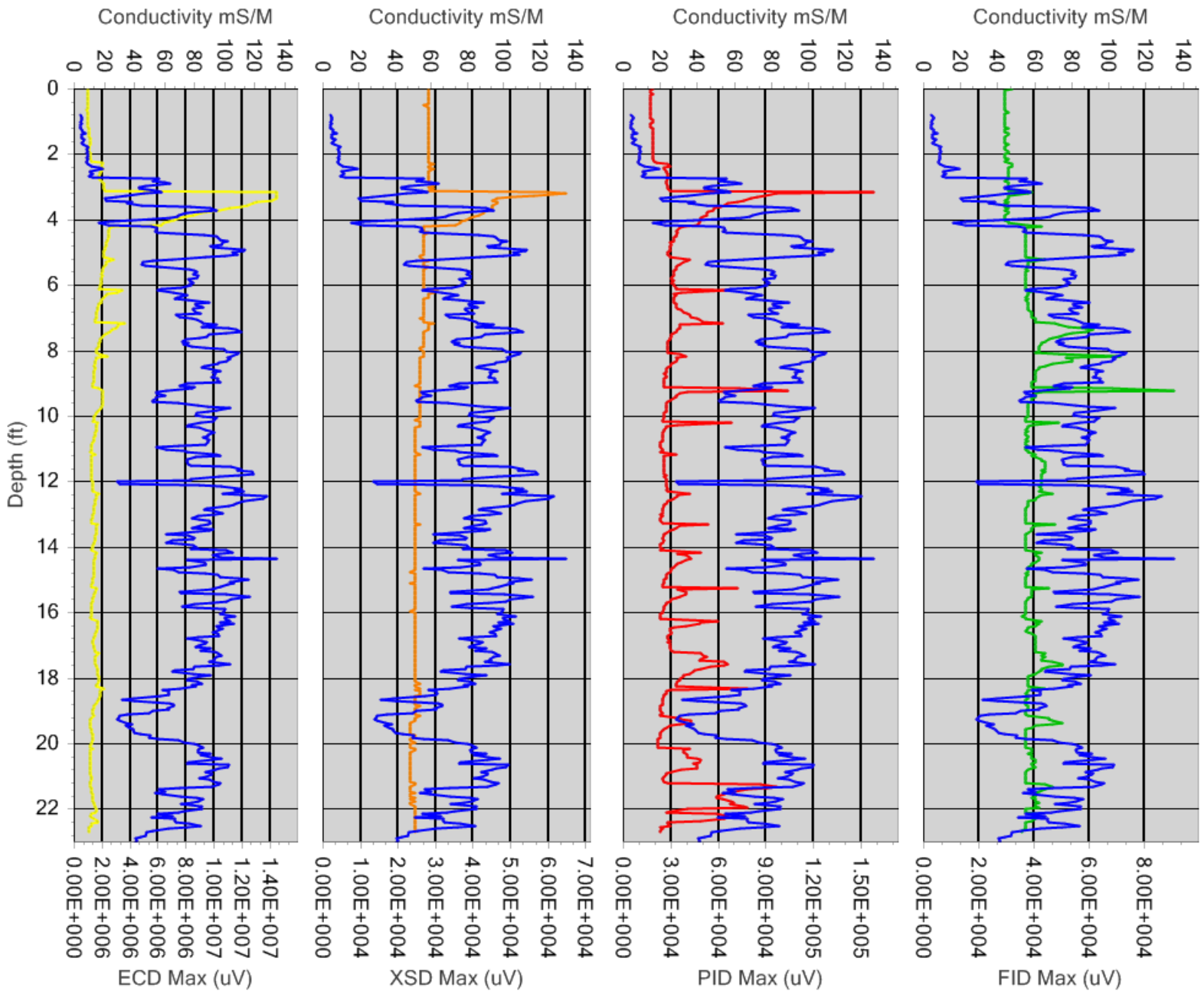
Hand auger to 3 feet bgs. Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 04 2014 12:34:26
End Boring Time :	Feb 04 2014 13:04:51
MIP Specialist :	Jeff Paul





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 P: 925-849-6970  
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## Boring Name : MIP-11

Total Depth : 23.80  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

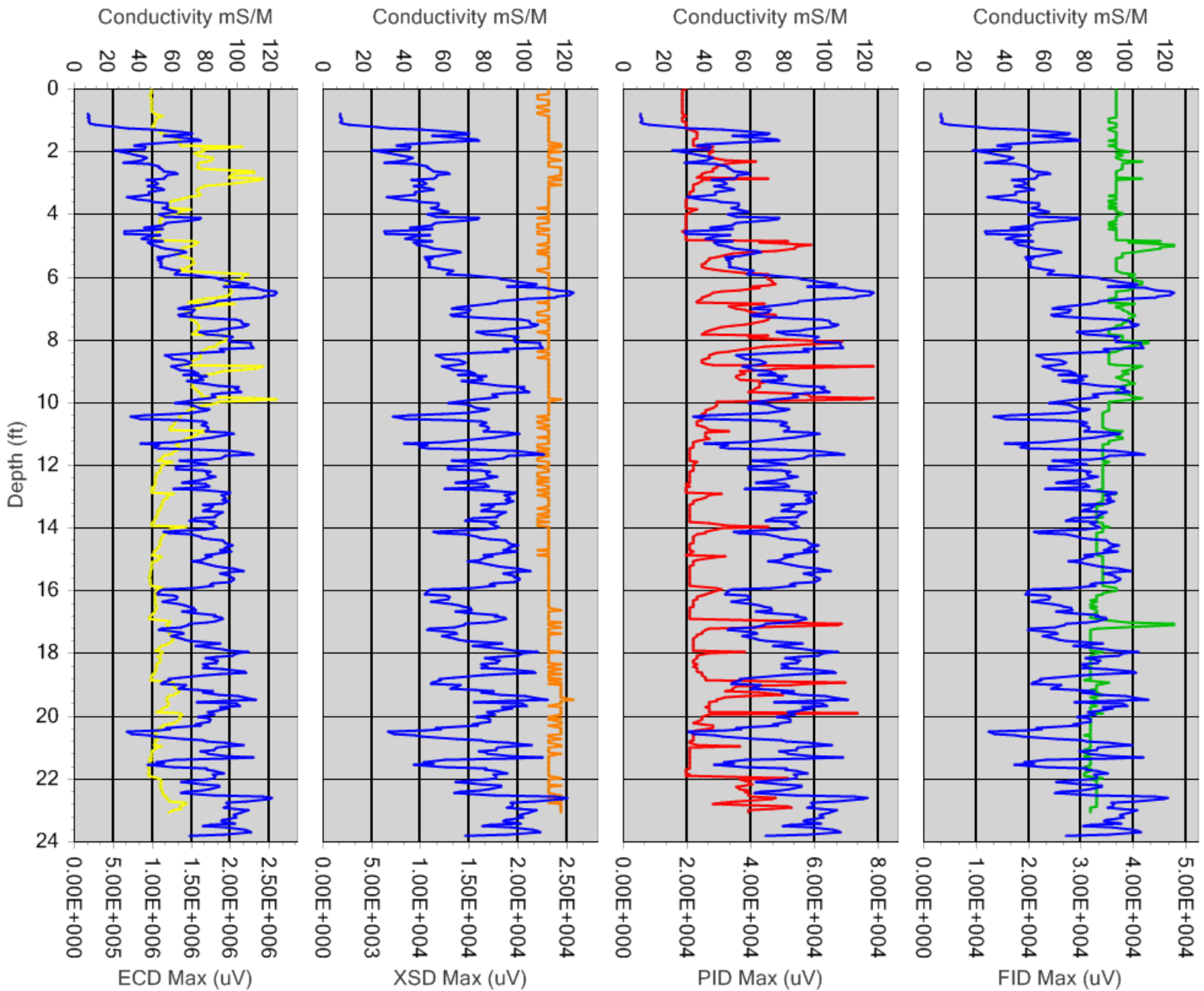
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 04 2014 13:30:59
End Boring Time :	Feb 04 2014 14:02:32
MIP Specialist :	Jeff Paul





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 P: 925-849-6970  
 F: 925-849-6973  
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### Boring Name : MIP-12

Total Depth : 26.05  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

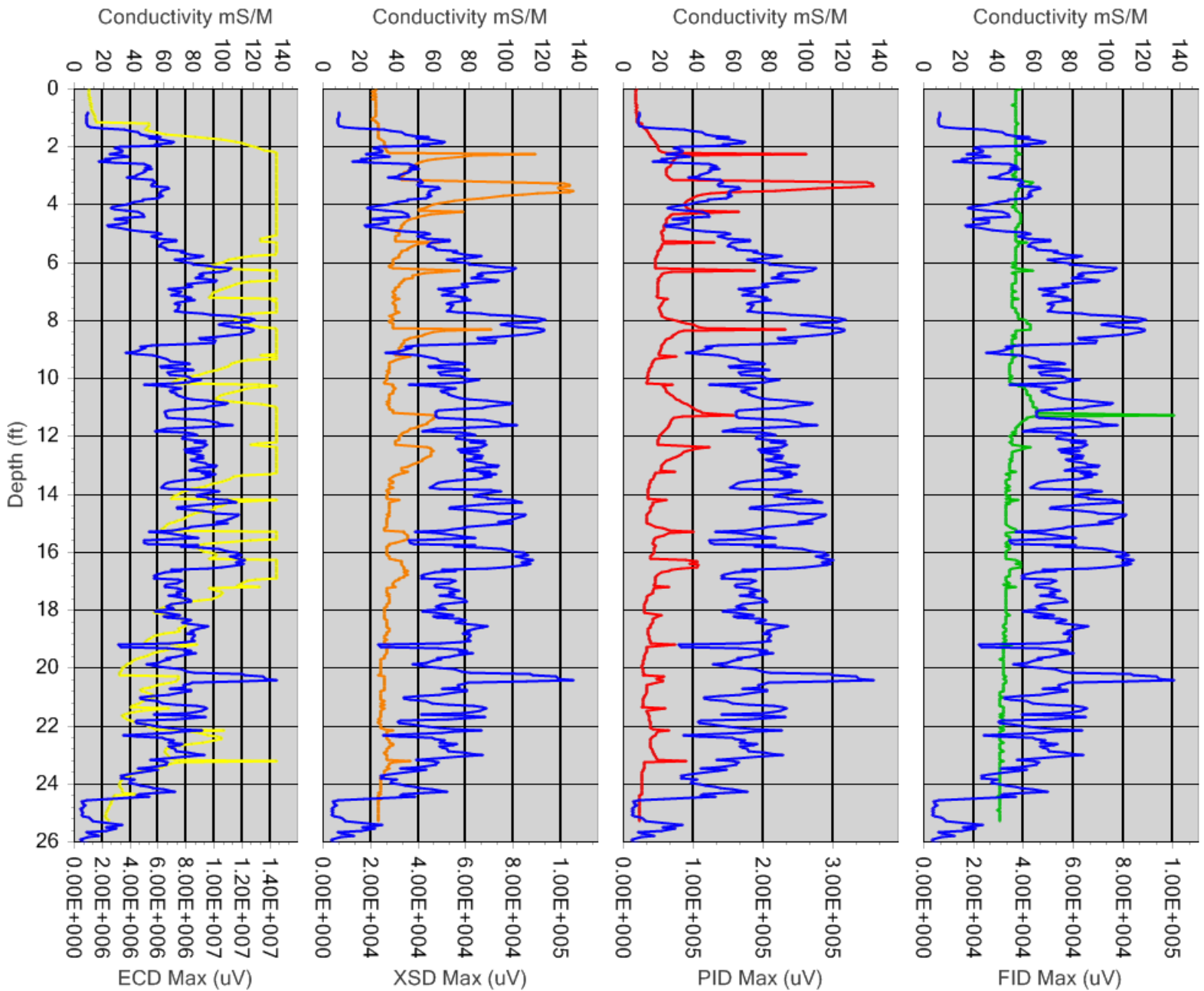
None.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 14:13:03
End Boring Time :	Feb 04 2014 14:39:36
MIP Specialist :	Jeff Paul





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 P: 925-849-6970  
 F: 925-849-6973  
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## Boring Name : MIP-13

Total Depth : 21.15  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

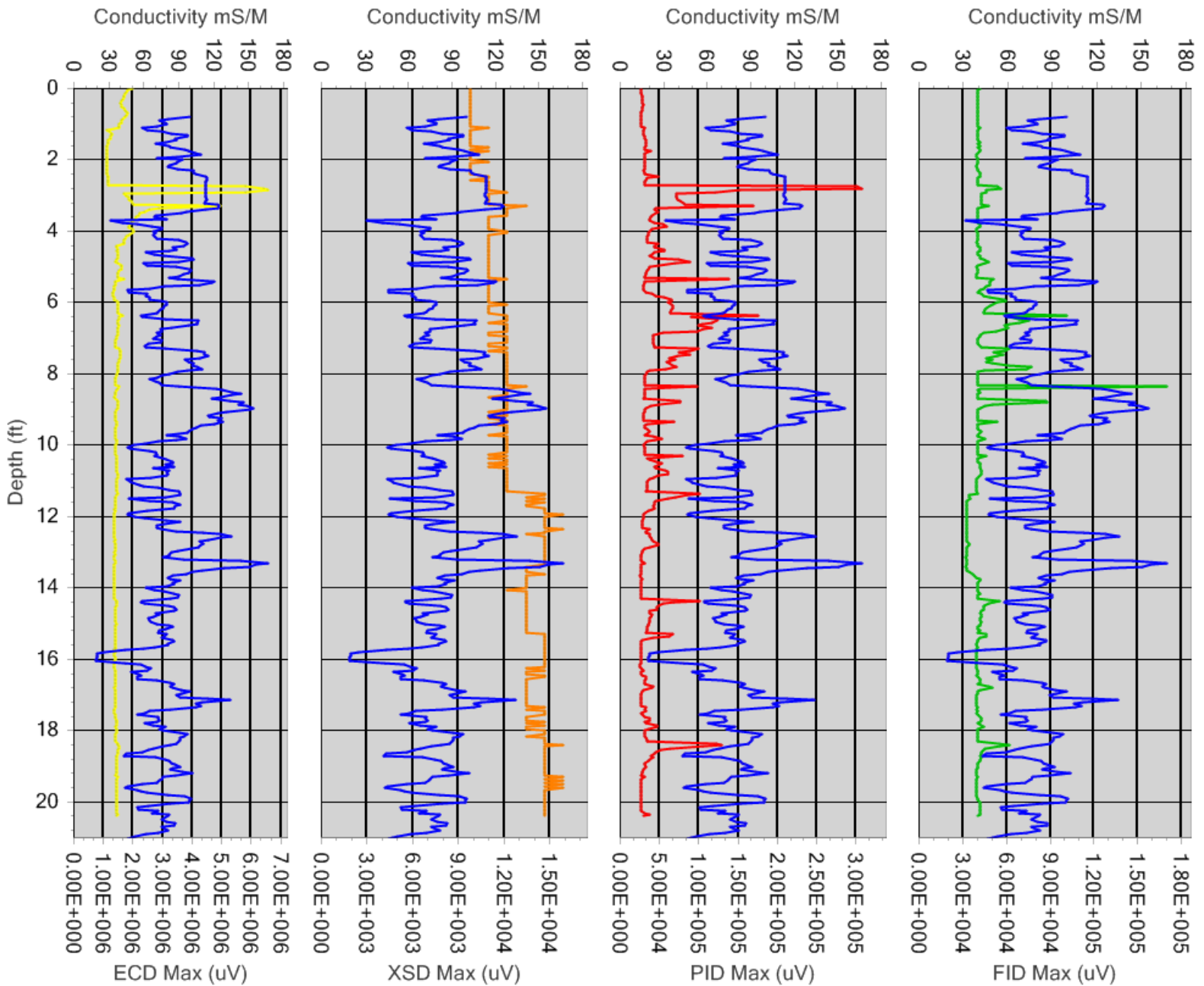
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 420M

### Boring Information

Start Boring Time:	Feb 05 2014 09:26:28
End Boring Time :	Feb 05 2014 10:15:19
MIP Specialist :	Jeff Paul







1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
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### Boring Name : MIP-14

Total Depth : 34.80  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

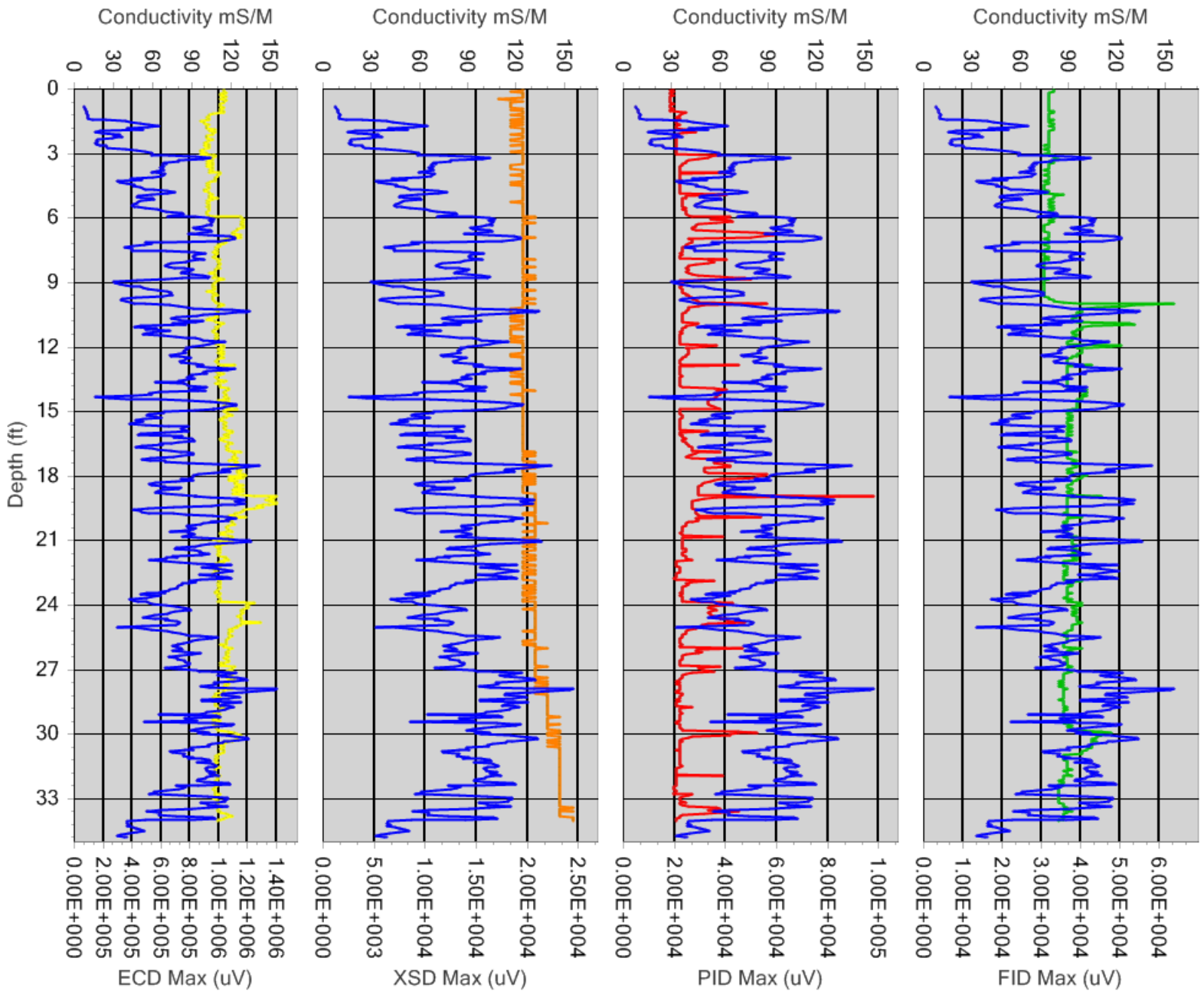
Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 05 2014 11:10:58
End Boring Time :	Feb 05 2014 11:53:26
MIP Specialist :	Jeff Paul





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 P: 925-849-6970  
 F: 925-849-6973  
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## Boring Name : MIP-15

Total Depth : 31.80  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

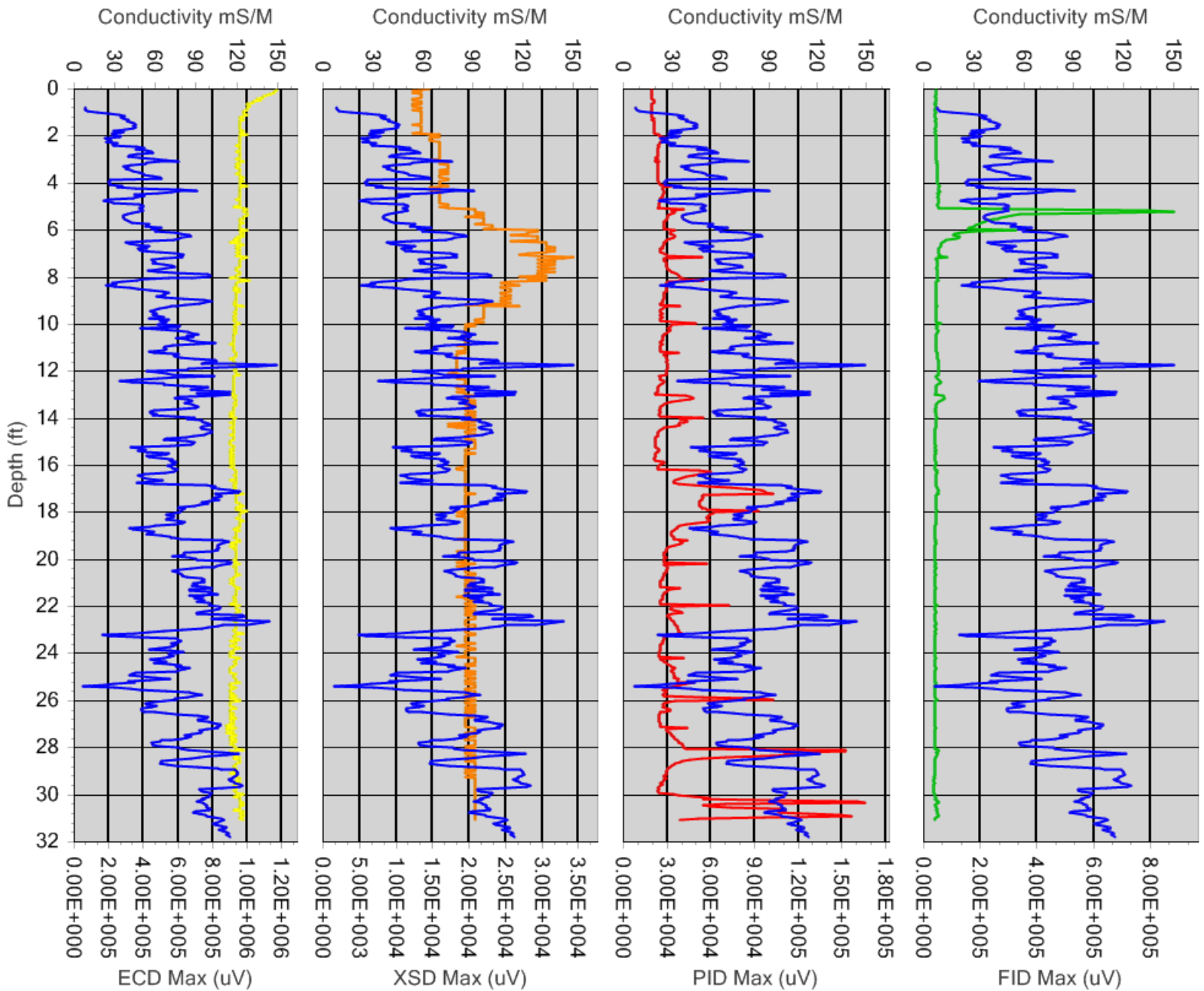
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 05 2014 13:27:49
End Boring Time :	Feb 05 2014 14:02:27
MIP Specialist :	Jeff Paul



## Appendix B – MIP Boring Logs (Common-Scale)

---



1641 Challenge Drive  
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### Boring Name : MIP-01

Total Depth : 26.45  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

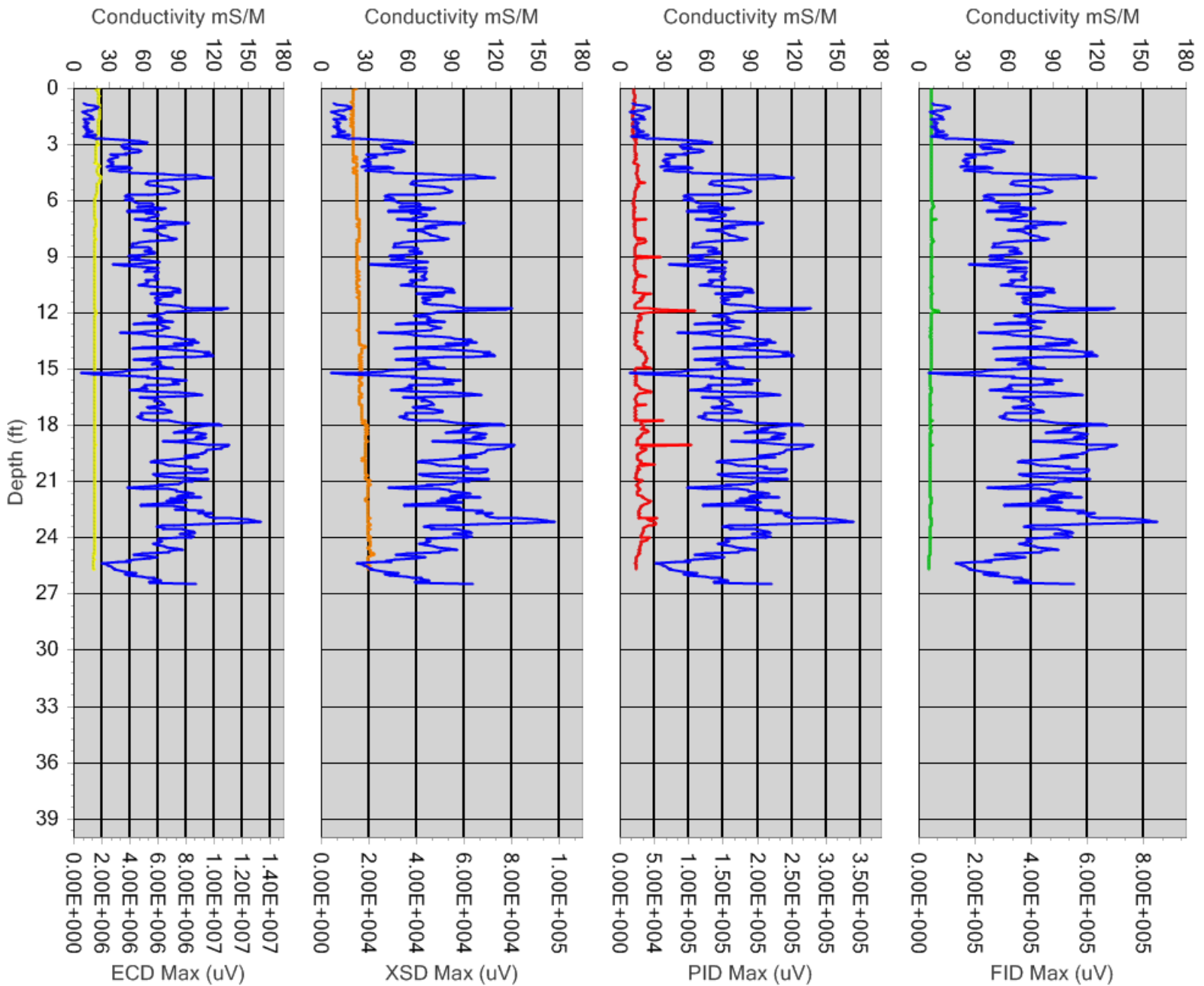
Hand auger to 3 feet bgs.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 09:00:07
End Boring Time :	Feb 03 2014 09:49:38
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
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### Boring Name : MIP-02

Total Depth : 25.95  
GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

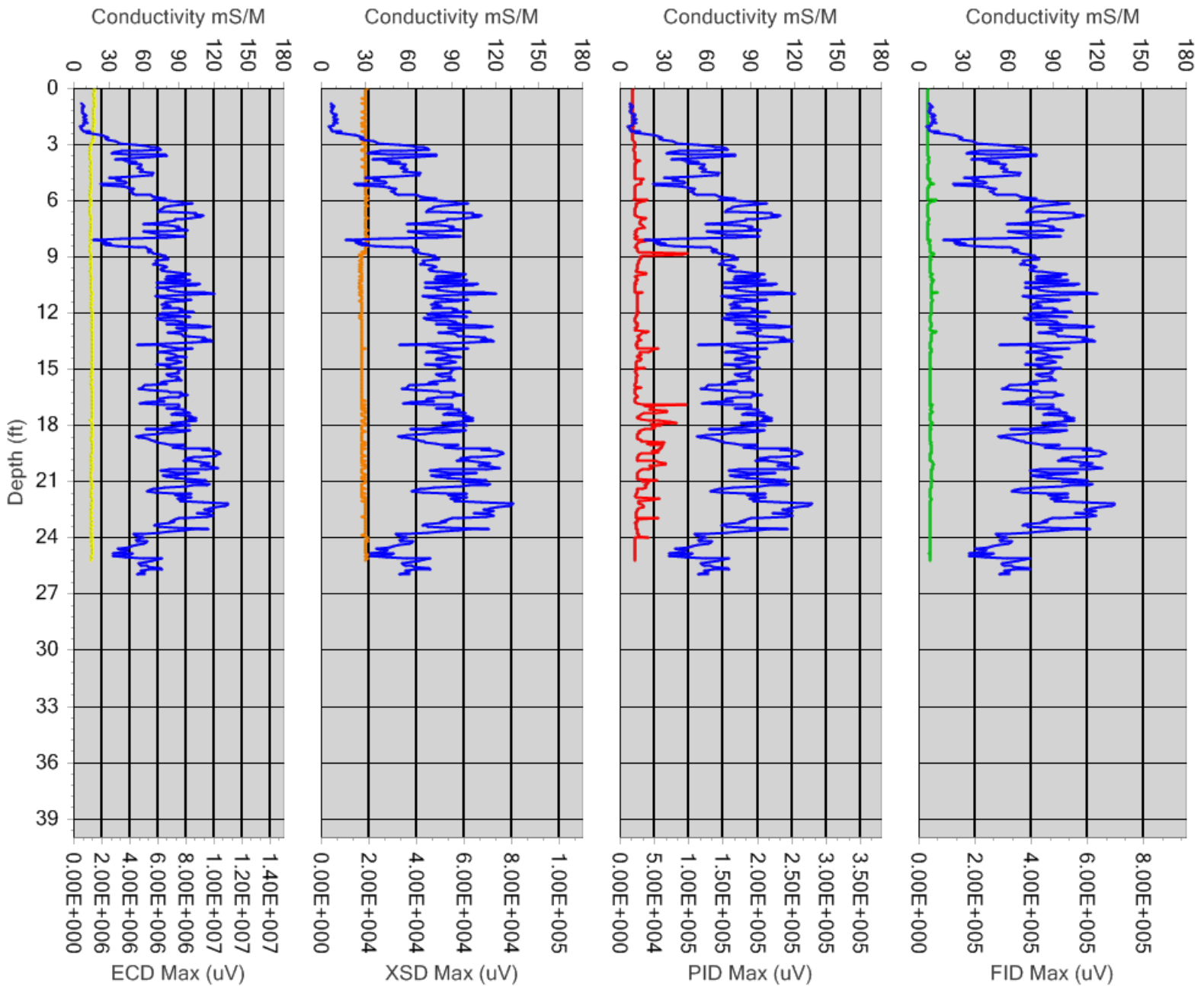
Hand auger to 3 feet bgs.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 10:09:09
End Boring Time :	Feb 03 2014 10:40:25
MIP Specialist :	Jeff Paul





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 F: 925-849-6973  
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### Boring Name : MIP-03

Total Depth : 23.85  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

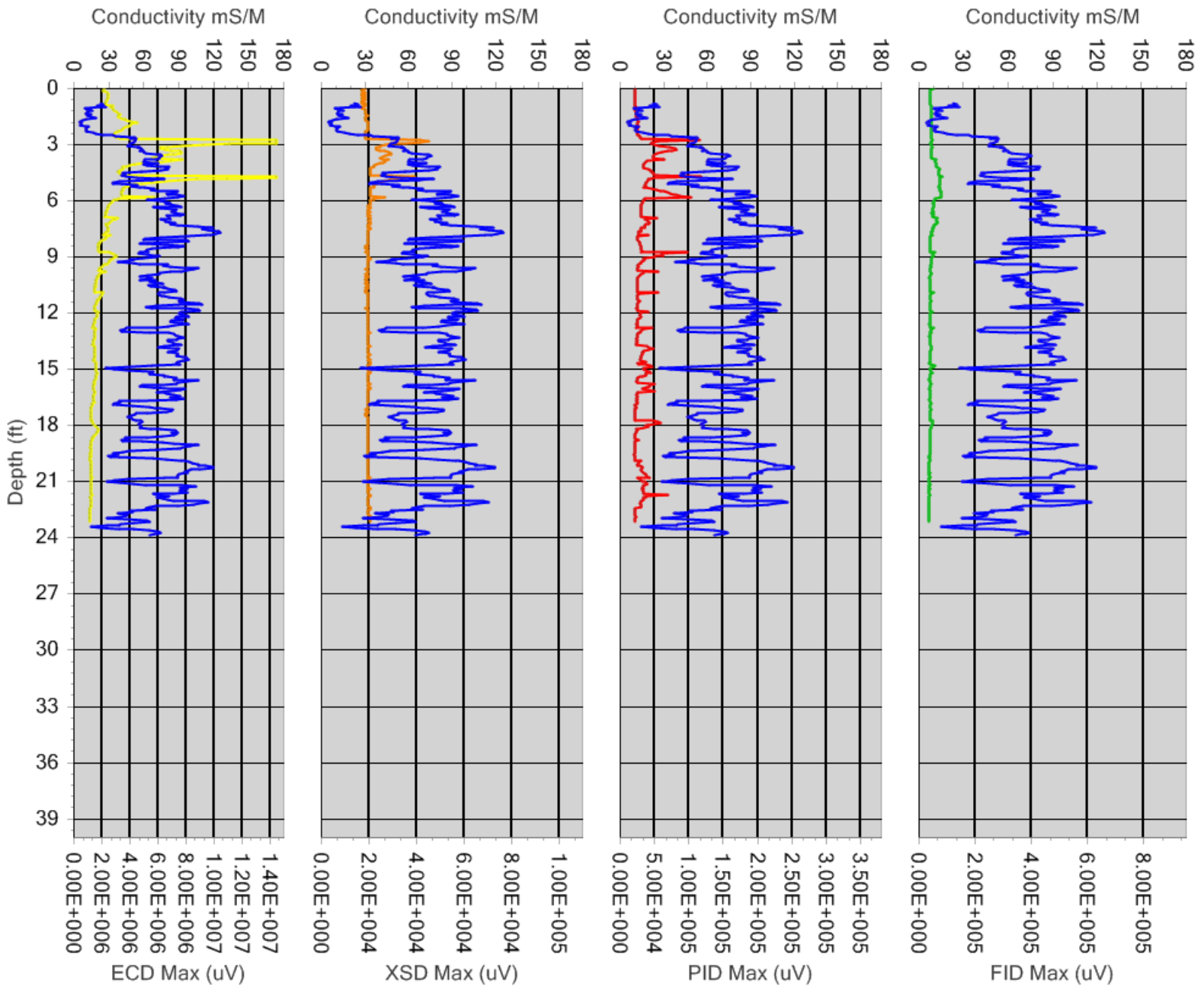
Hand auger to 3 feet bgs. Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 11:02:37
End Boring Time :	Feb 03 2014 11:36:51
MIP Specialist :	Jeff Paul





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 F: 925-849-6973  
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### Boring Name : MIP-04

Total Depth : 25.50  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

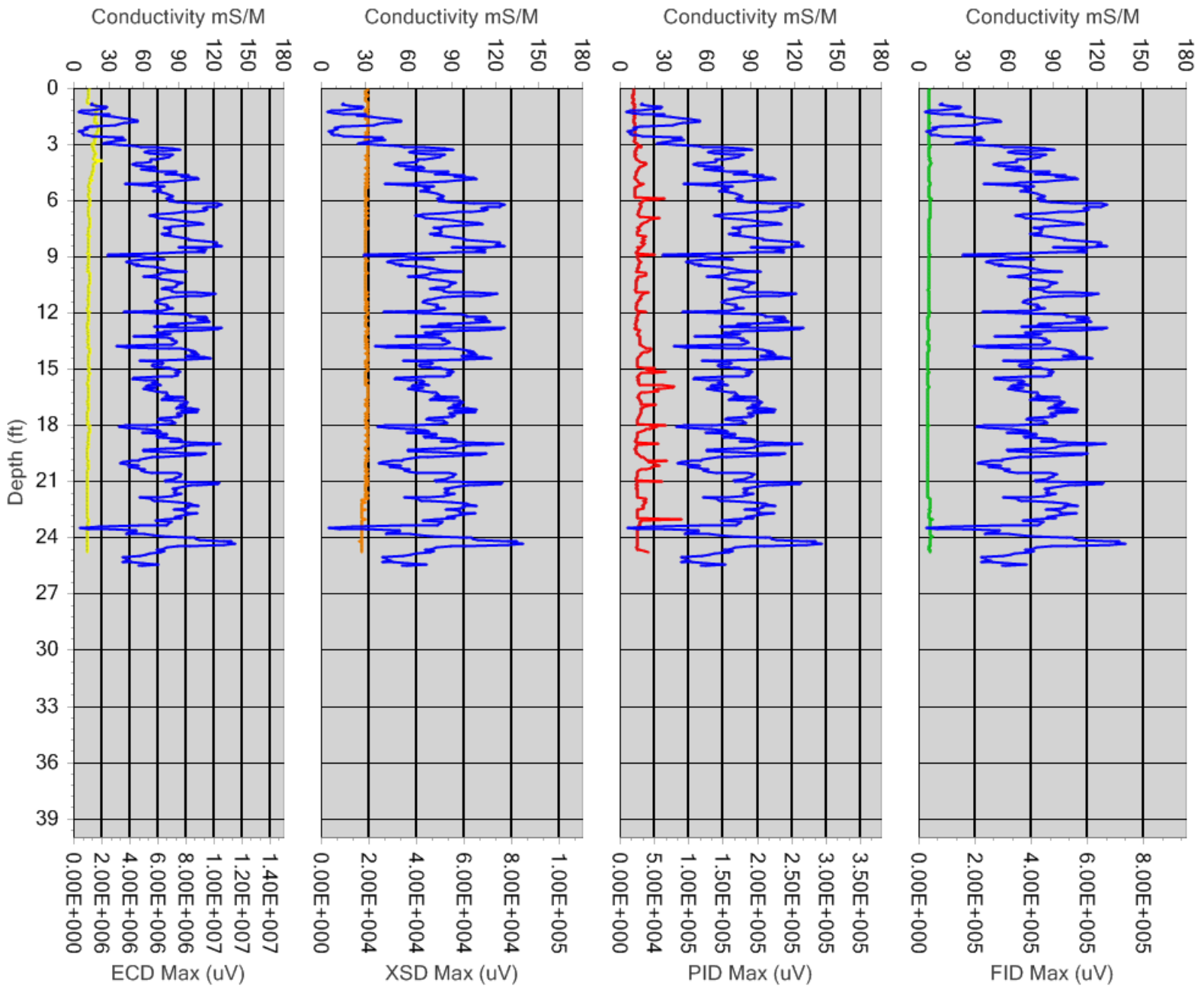
Hand auger to 3 feet bgs. Advance MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 13:11:52
End Boring Time :	Feb 03 2014 13:47:22
MIP Specialist :	Jeff Paul





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### Boring Name : MIP-05

Total Depth : 24.50  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

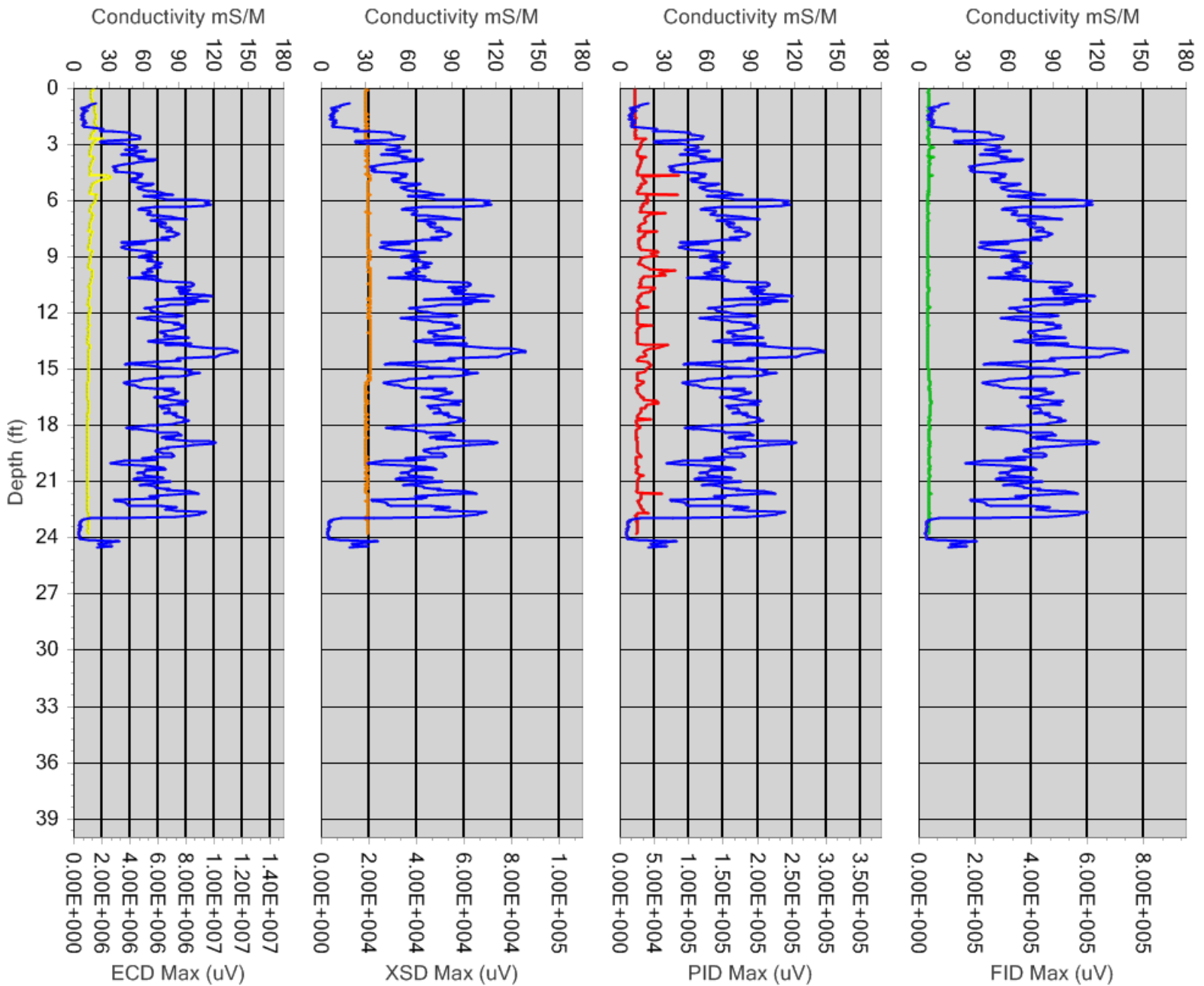
Hand auger to 3 feet bgs. Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 03 2014 13:58:40
End Boring Time :	Feb 03 2014 14:27:49
MIP Specialist :	Jeff Paul







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 P: 925-849-6970  
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### Boring Name : MIP-06

None.

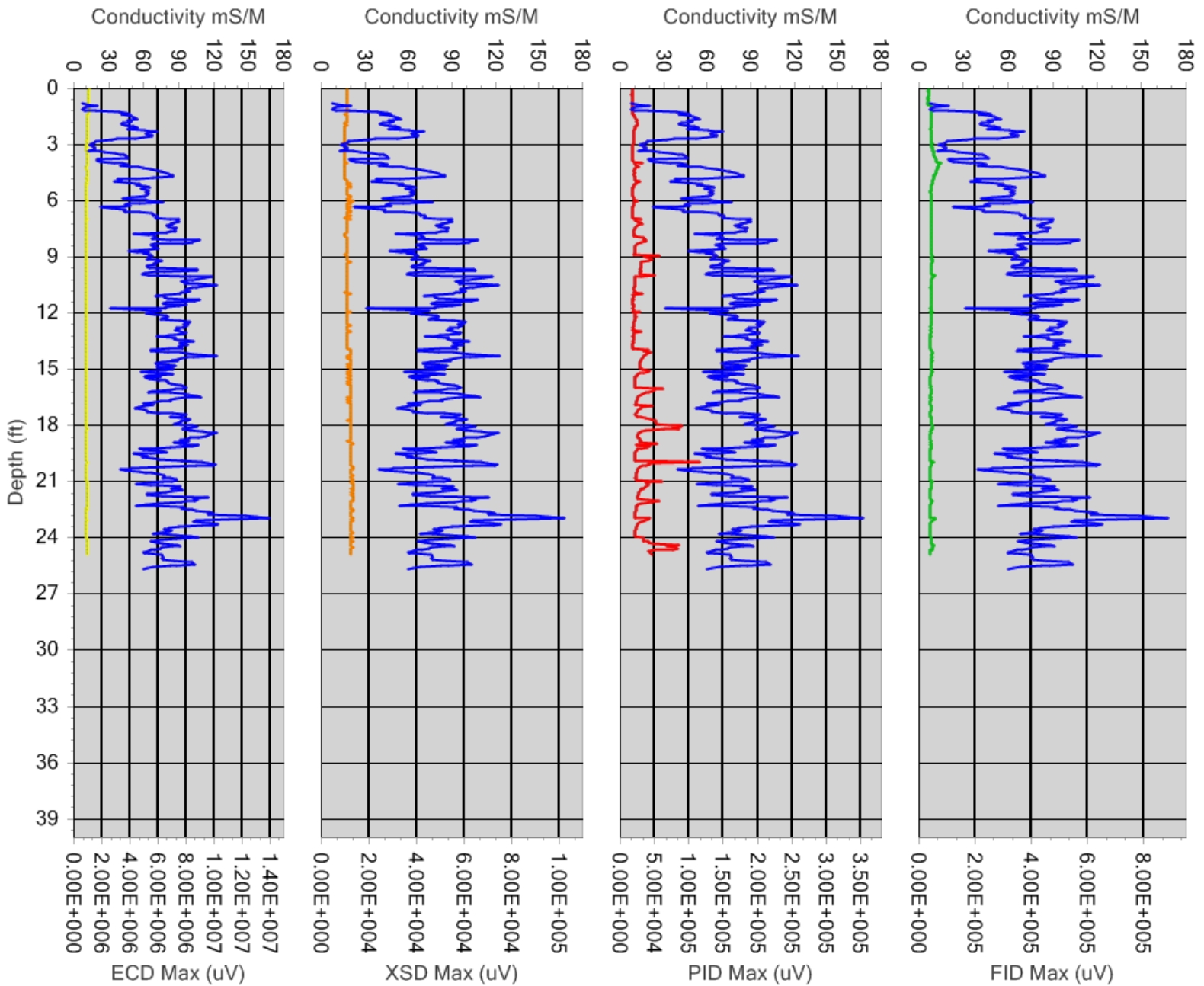
Total Depth : 25.65  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 08:03:28
End Boring Time :	Feb 04 2014 08:35:43
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
 F: 925-849-6973  
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### Boring Name : MIP-07

None.

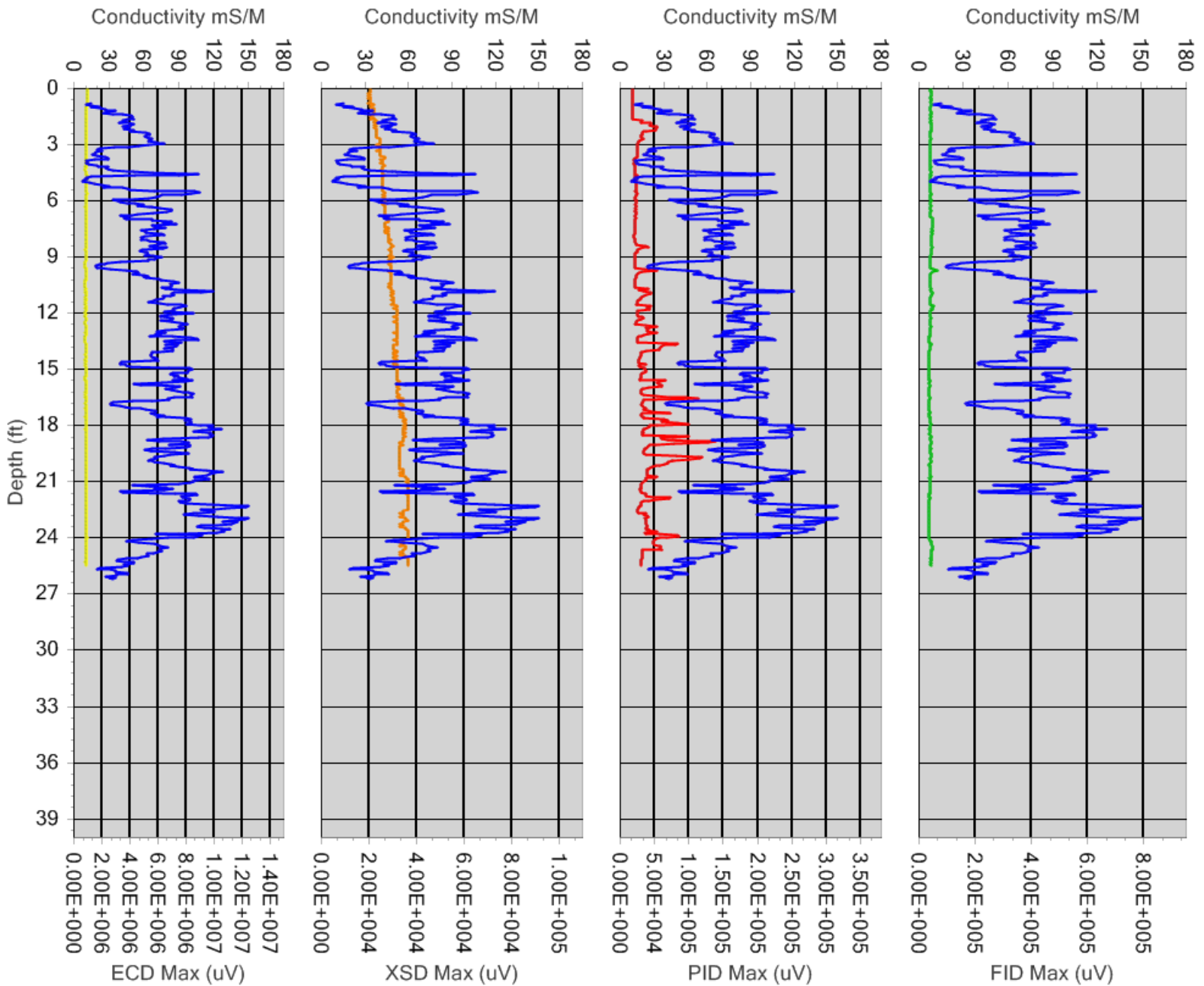
Total Depth : 26.20  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 08:54:46
End Boring Time :	Feb 04 2014 09:29:50
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
 Concord, CA 94520  
 P: 925-849-6970  
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### Boring Name : MIP-08

None.

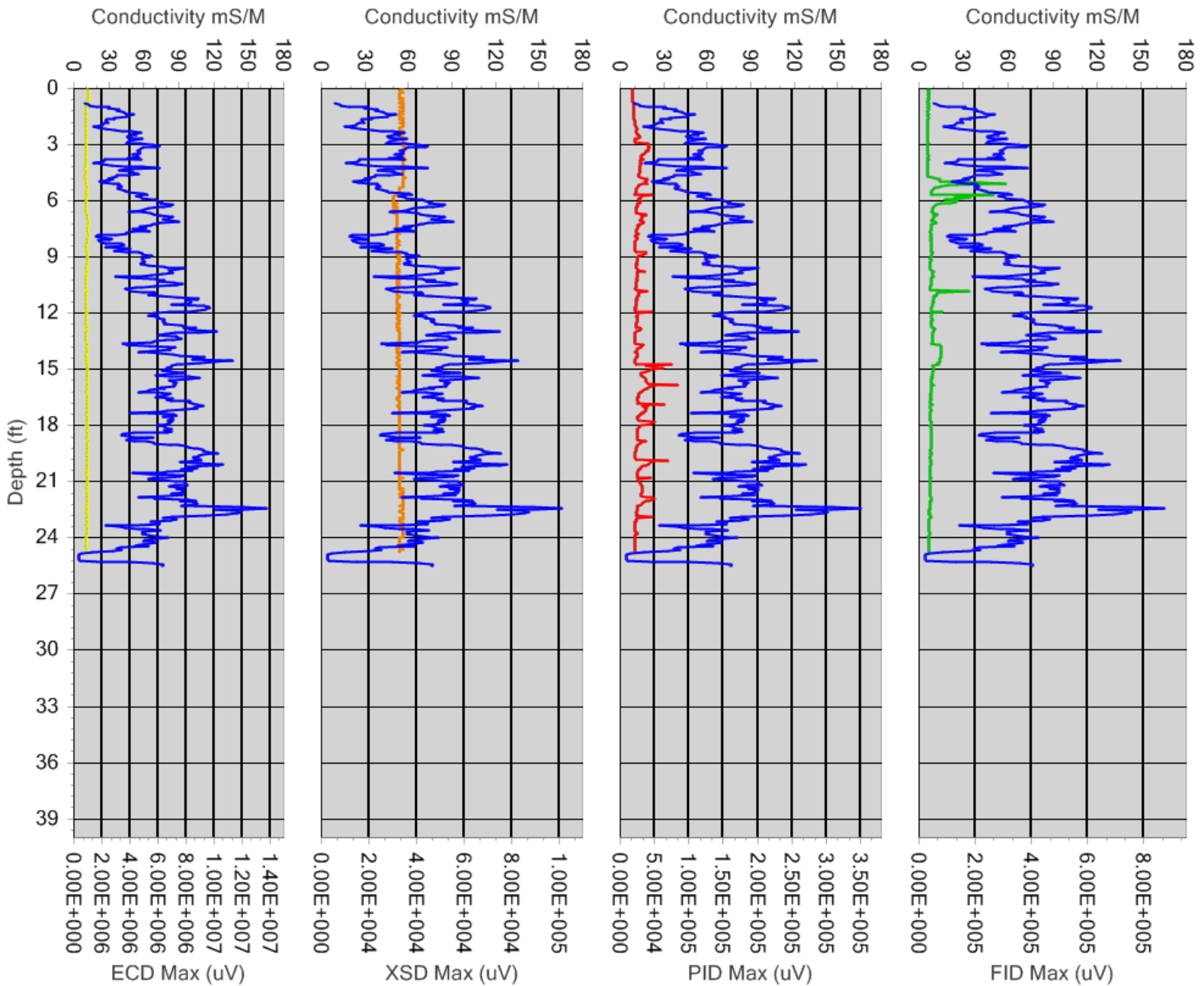
Total Depth : 25.50  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 09:53:48
End Boring Time :	Feb 04 2014 10:24:20
MIP Specialist :	Jeff Paul





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## Boring Name : MIP-09

Total Depth : 24.40  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

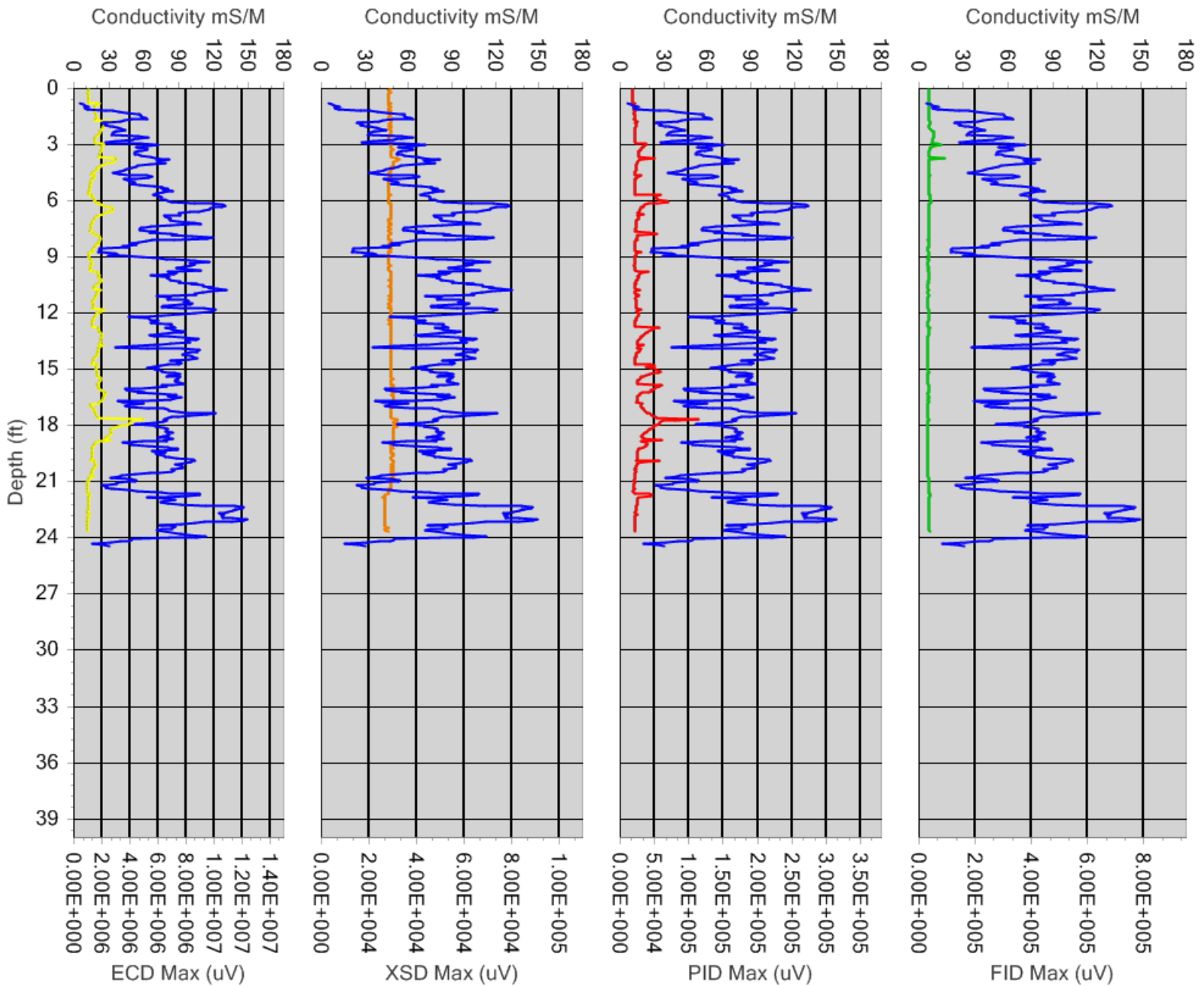
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 04 2014 11:39:53
End Boring Time :	Feb 04 2014 12:07:40
MIP Specialist :	Jeff Paul





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### Boring Name : MIP-10

Total Depth : 23.45  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

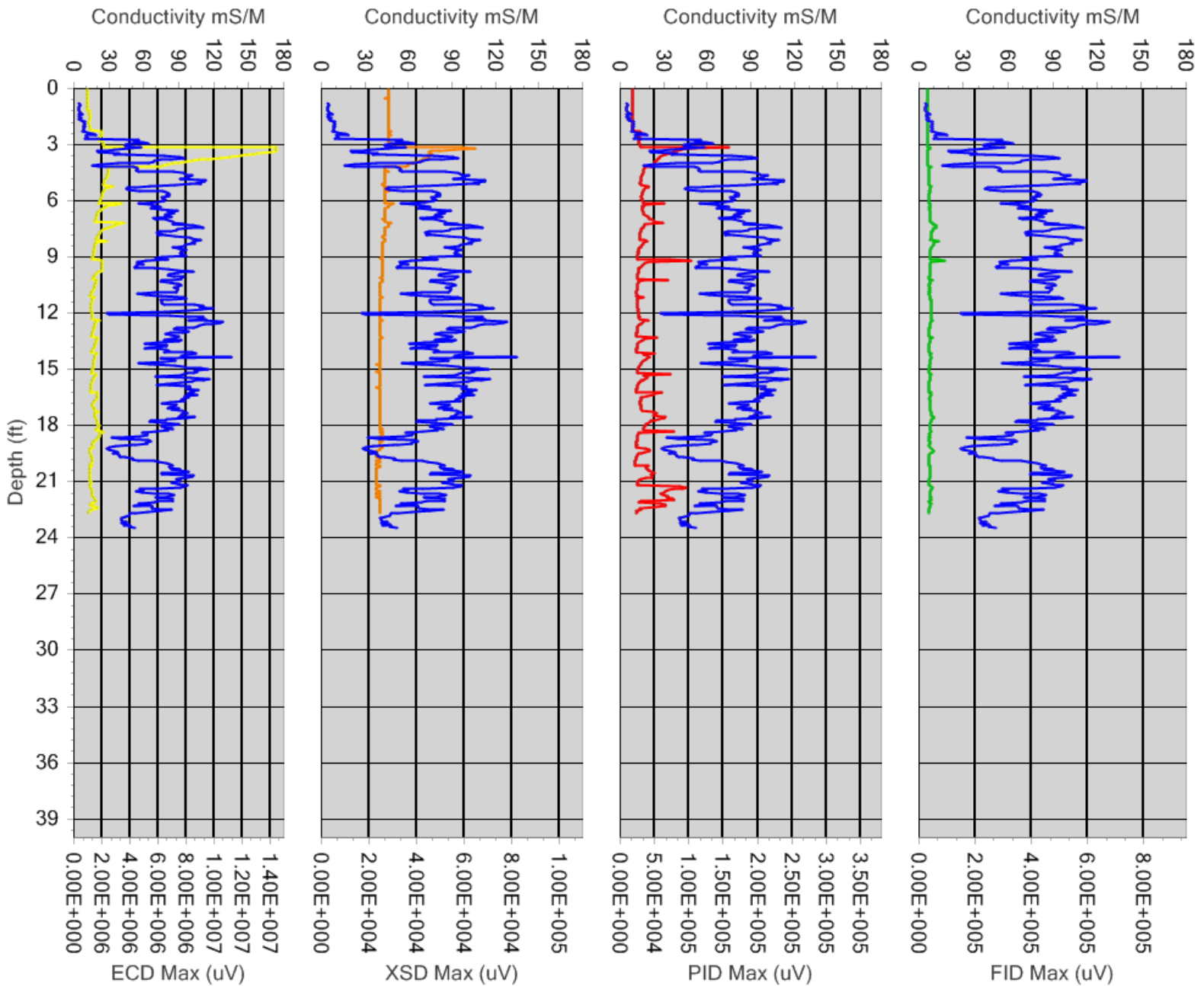
Hand auger to 3 feet bgs. Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 12:34:26
End Boring Time :	Feb 04 2014 13:04:51
MIP Specialist :	Jeff Paul





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## Boring Name : MIP-11

Total Depth : 23.80  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

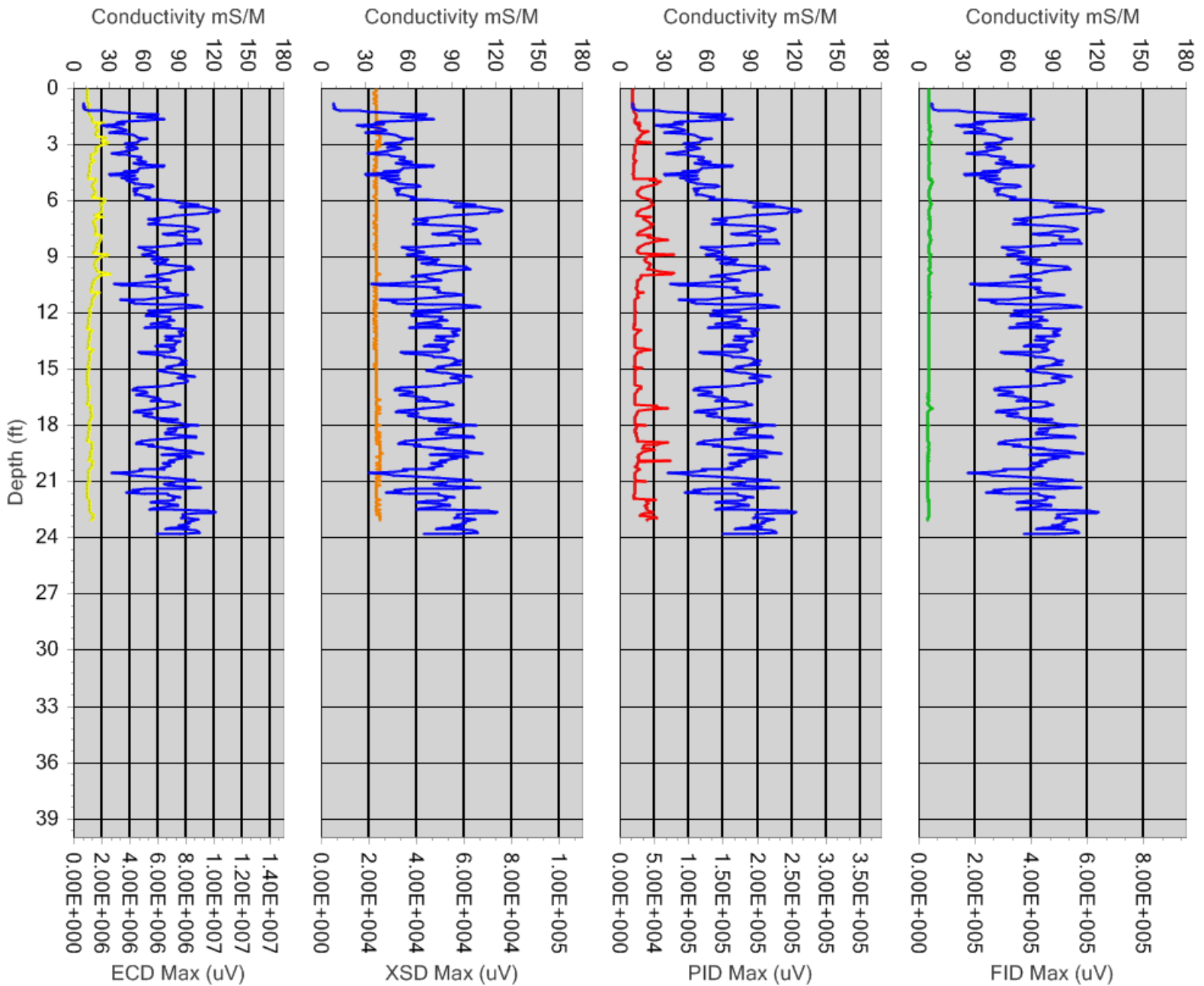
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 04 2014 13:30:59
End Boring Time :	Feb 04 2014 14:02:32
MIP Specialist :	Jeff Paul





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### Boring Name : MIP-12

Total Depth : 26.05  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

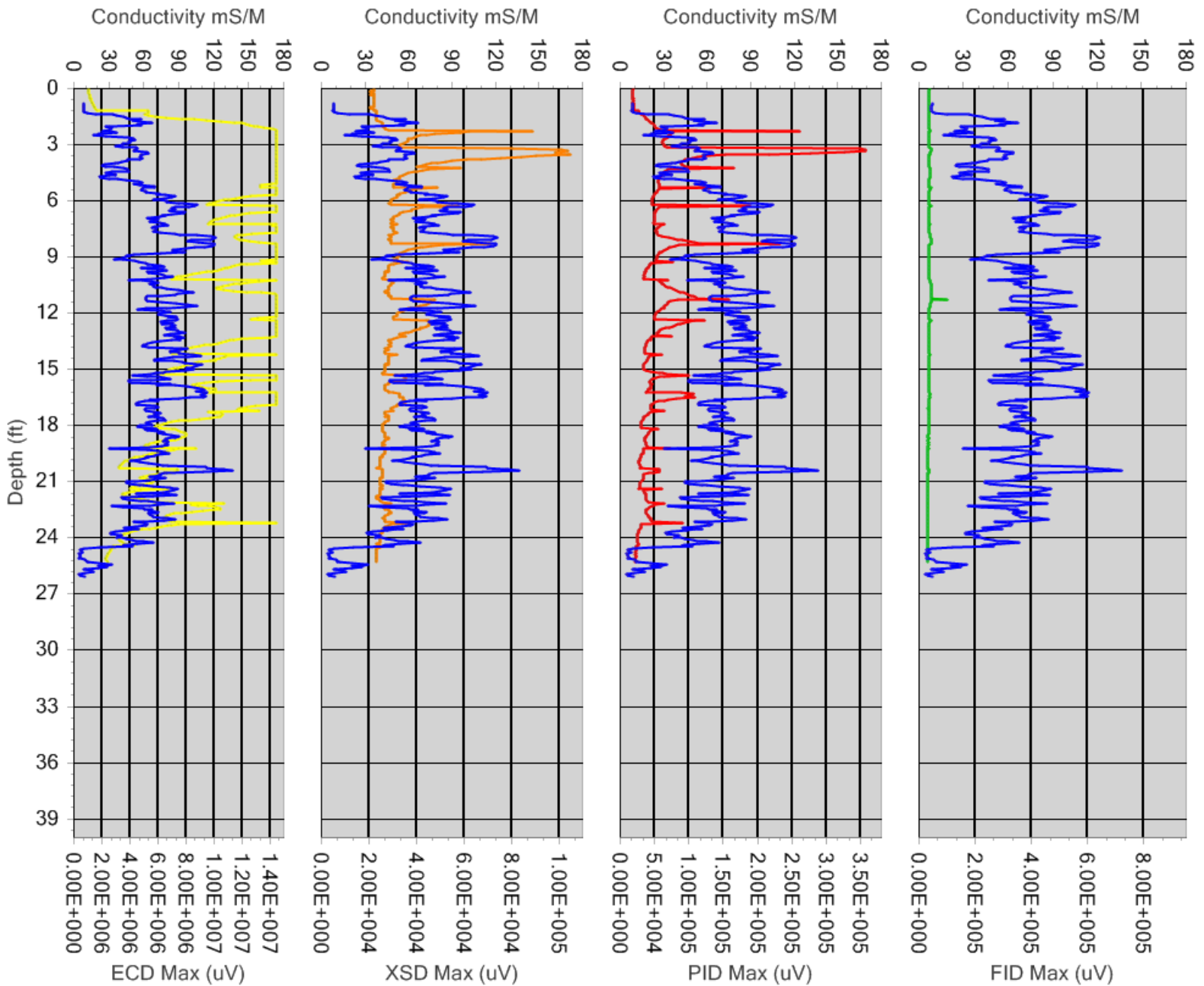
None.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

Start Boring Time:	Feb 04 2014 14:13:03
End Boring Time :	Feb 04 2014 14:39:36
MIP Specialist :	Jeff Paul





1641 Challenge Drive  
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 P: 925-849-6970  
 F: 925-849-6973  
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## Boring Name : MIP-13

Total Depth : 21.15  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

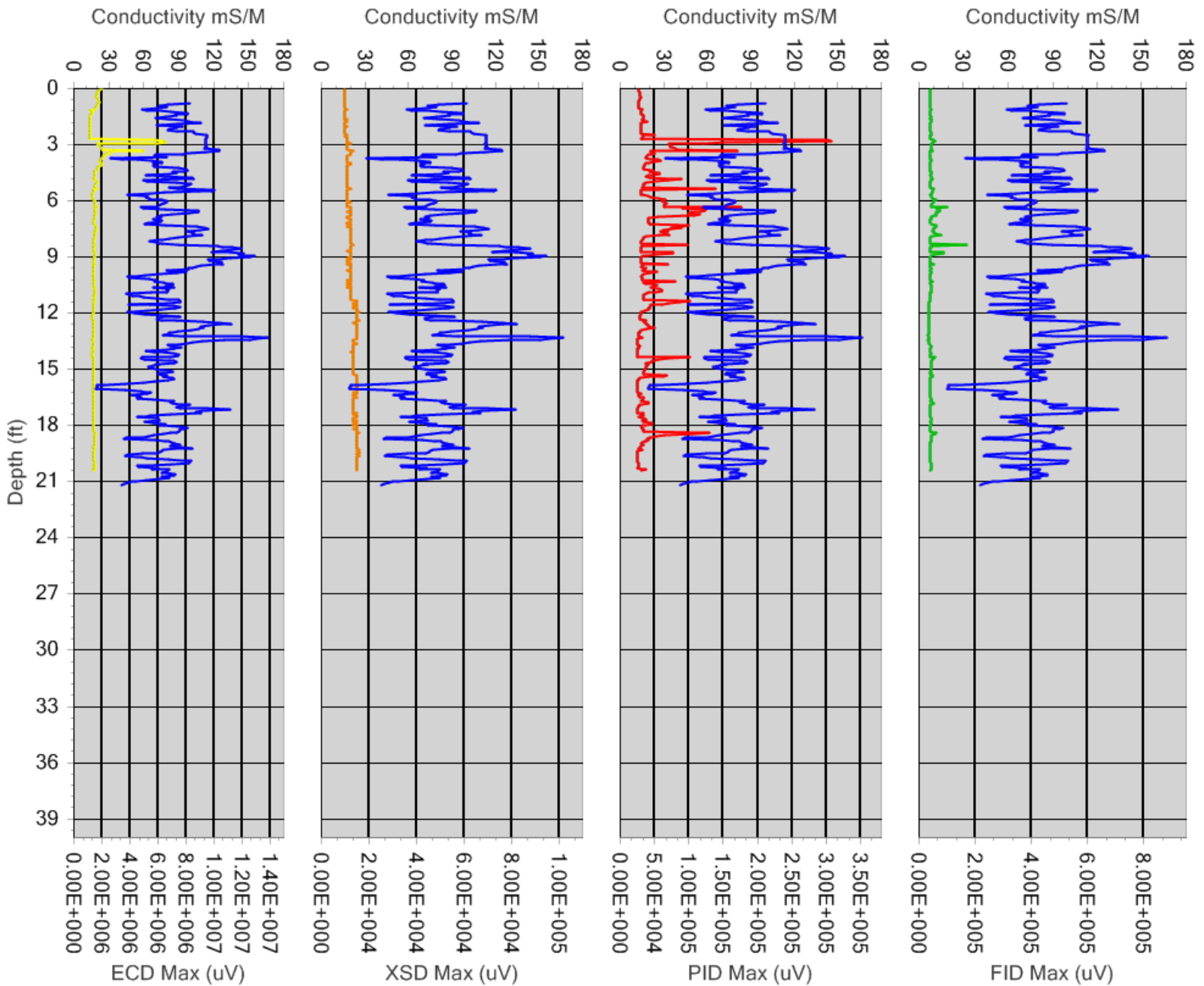
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 420M

### Boring Information

Start Boring Time:	Feb 05 2014 09:26:28
End Boring Time :	Feb 05 2014 10:15:19
MIP Specialist :	Jeff Paul







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 P: 925-849-6970  
 F: 925-849-6973  
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## Boring Name : MIP-14

Total Depth : 34.80  
 GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.  
 Blue line on each graph denotes depth of GW.*

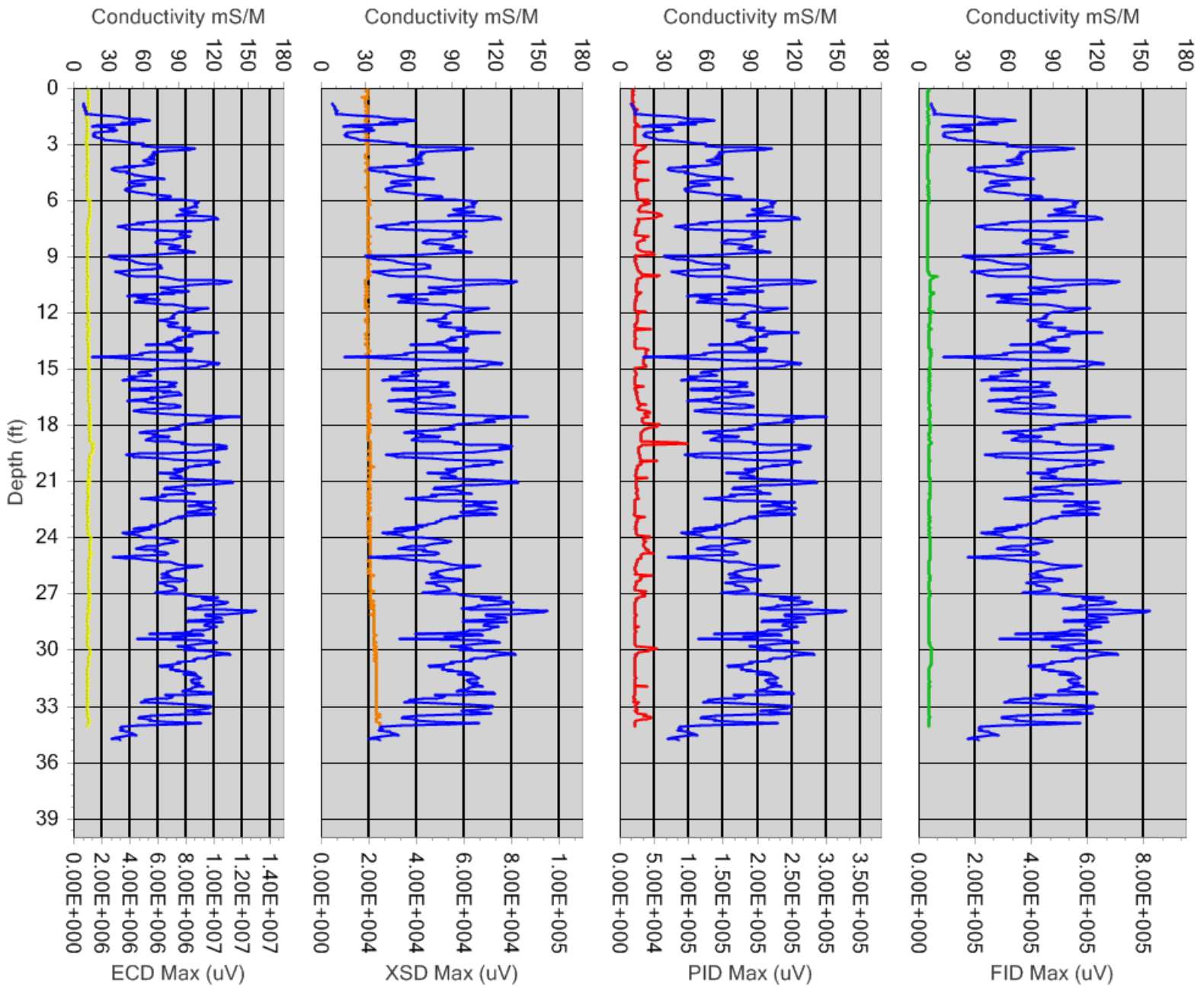
Advanced MIP to refusal.

### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

### Boring Information

Start Boring Time:	Feb 05 2014 11:10:58
End Boring Time :	Feb 05 2014 11:53:26
MIP Specialist :	Jeff Paul





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### Boring Name : MIP-15

Total Depth : 31.80  
GW Depth (ft) : Not Provided  
*Depth of GW Provided by Client.*  
*Blue line on each graph denotes depth of GW.*

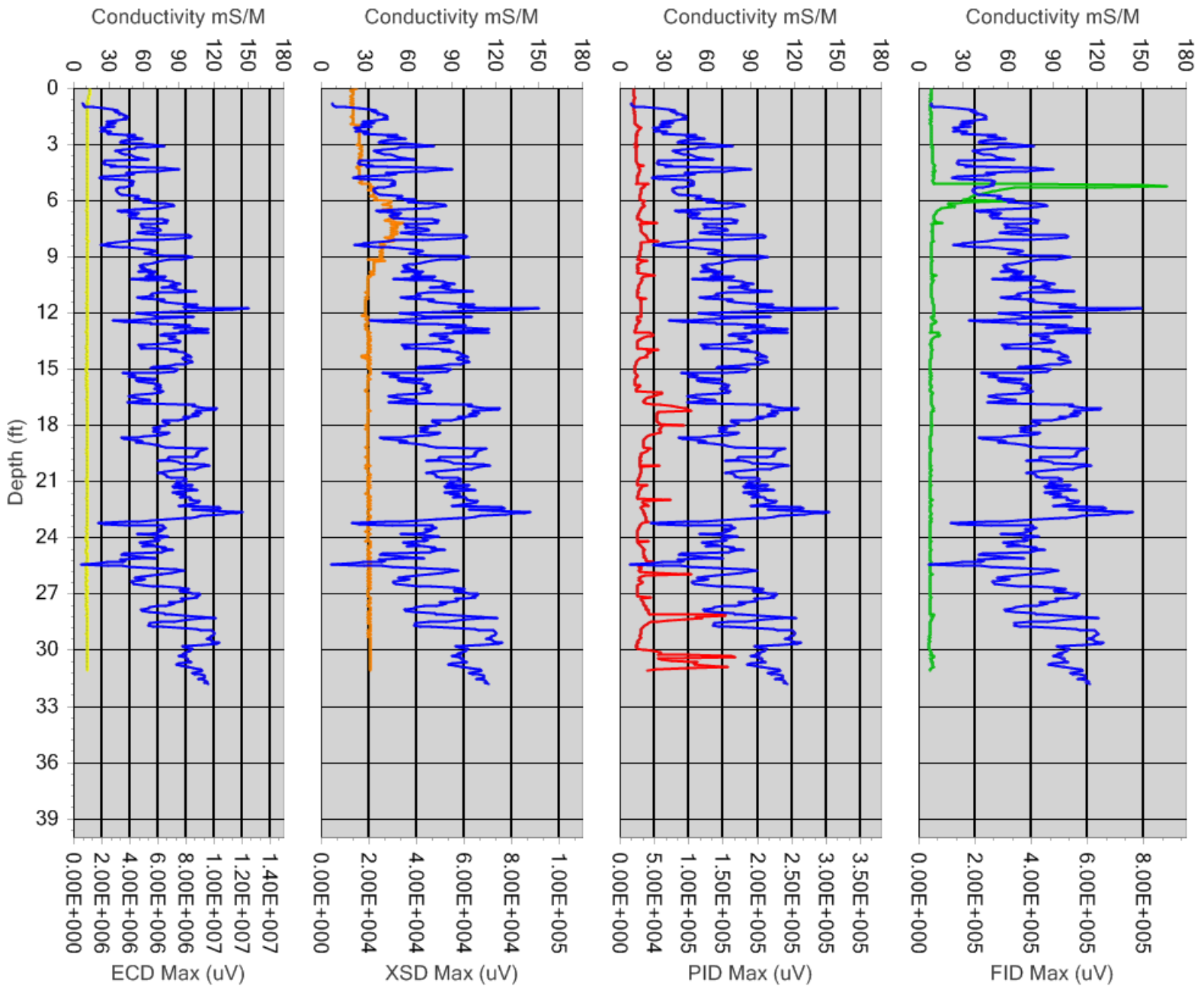
Advanced MIP to refusal.

#### Project Information

Client Company :	Cardno ATC	Trunkline Length :	150
Project Name :	580 Marketplace	Probe Type :	6520
Site Address :	3735 E Castro Valley Blvd, Castro Valley, CA	Rig Type :	Geoprobe 6600

#### Boring Information

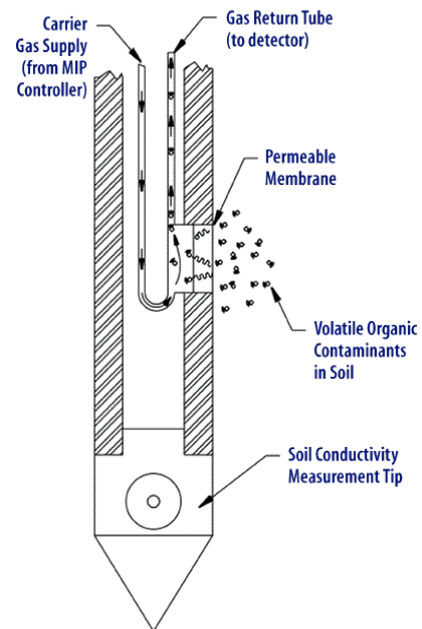
Start Boring Time:	Feb 05 2014 13:27:49
End Boring Time :	Feb 05 2014 14:02:27
MIP Specialist :	Jeff Paul



## Appendix C – MIP System Overview

The MIP is a direct push system that produces quantitative vertical profiles of volatile organic compound (VOC) concentrations, in relation to lithology, in the subsurface. Multiple vertical profiles, or borings, may be advanced to develop more complex visual representations of site contamination, such as transects, three dimensional models, and interactive maps. This system provides real-time information which allows users to make timely decisions during the mobilization of equipment.

The MIP system operates by heating the soil and groundwater adjacent to the probe to 120 degrees Celsius to volatilize VOCs in the immediate vicinity of the MIP membrane. This allows for the volatilized VOCs to diffuse across the membrane into a closed inert gas loop that carries these vapors to a series of detectors housed at the surface. Each detector produces a continuous profile, which is plotted with respect to depth. Each detector operates differently and therefore can detect different compounds. Vironex operates the MIP system with an electron capture detector (ECD), halogen specific detector (XSD), photo-ionization detector (PID), and flame-ionization detector (FID). Soil conductivity is also measured during each boring and can be compared to the chemical logs to better understand where the VOCs are present. More information regarding the operation of each detector is provided below.



### Equipment:

- Geoprobe 6600, Geoprobe 420M
- MIP Controller (Nitrogen Flow and Heater)
- Geoprobe FC 5000 Computer
- HP 5890 Gas Chromatograph
- ECD (Electron Capture Detector)
- XSD (Halogen Specific Detector)
- PID (Photo Ionization Detector) 10.0 eV Lamp
- FID (Flame Ionization Detector)
- 150' Trunkline
- 1.75" O.D. 6520 MIP Probe
- 1.50" O.D. Drive Rods

### Detector Details

- ECD – Electron Capture Detector uses a radioactive Beta emitter (electrons) to ionize some of the carrier gas and produce a current between a biased pair of electrodes. When organic molecules contain electronegative functional groups, such as halogens, phosphorous, and nitro groups pass by the detector, they capture some of the electrons and reduce the current measured between the electrodes.
- XSD – The Halogen Specific Detector converts compounds containing halogens to their oxidation products and frees halogen atoms by oxidative pyrolysis. These halogen atoms are absorbed onto the activated platinum surface of the detector probe assembly resulting in an increased thermionic emission. This emission current provides a corresponding voltage that is measured via an electrometer circuit in the detector controller.

- PID – Photo Ionization Detector sample stream flows through the detector's reaction chamber where it is continuously irradiated with high energy ultraviolet light. When compounds are present that have a lower ionization potential than that of the irradiation energy (10.2 electron volts with standard lamp) they are ionized. The ions formed are collected in an electrical field, producing an ion current that is proportional to compound concentration. The ion current is amplified and output by the gas chromatograph's electrometer.
- FID – Flame Ionization Detector consists of a hydrogen / air flame and a collector plate. The effluent from the GC (trunkline) passes through the flame, which breaks down organic molecules and produces ions. The ions are collected on a biased electrode and produce an electric signal.

### **MIP Data Collected**

- Depth - Data is collected from twenty data points per foot. 0.05', 0.10', 0.15', etc...
- Electrical Conductivity - Electrical Conductivity data is measured/collected in milli-siemens per Meter (ms/M). The conductivity of soils is different for each type of media. Finer grained sediments, such as silts or clays, will have a higher EC signal. While coarser grained sediments, sands and gravel, will have a lower EC signal. The coarser grained sediments will allow the migration of contaminants and the finer grained sediments will trap the contaminant.
- Speed / Advancement Rate - Speed data is measured/collected in feet per minute (ft/min). Speed is an indication of the physical advancement rate of the MIP probe. Speed of the MIP probe can vary due to operator advancement and dense soil types. Speed log can provide soil type information which can be correlated with electrical conductivity. Lower advancement speed, correlated with lower conductivity or larger grained soils would more than likely be associated with dense or compacted sands.
- Temperature - Temperature data is measured/collected in Degrees Celsius. Temperature is an indication of the physical temperature of the MIP block. Minimum and Maximum temperature is collected at each vertical interval. Vironex's temperature protocol indicates that the MIP probe temperature shall maintain a minimum temperature of 75 Degrees Celsius.
- Pressure - Pressure data is measured/collected in PSI. Pressure is an indication of the internal pressure of the nitrogen lines located within the trunkline and the pressure behind the membrane. Minimum and Maximum temperature is collected at each vertical interval. Geoprobe's temperature protocol indicates that the MIP probe pressure shall not exceed 1.5 PSI difference from baseline.
- Detector (XSD, ECD, PID, FID) - Detector responses are measured/collected in micro Volts (uV). Detector responses are an indication of relative contaminant responses. Minimum and Maximum detector responses are collected at each vertical interval.

### **Response Testing**

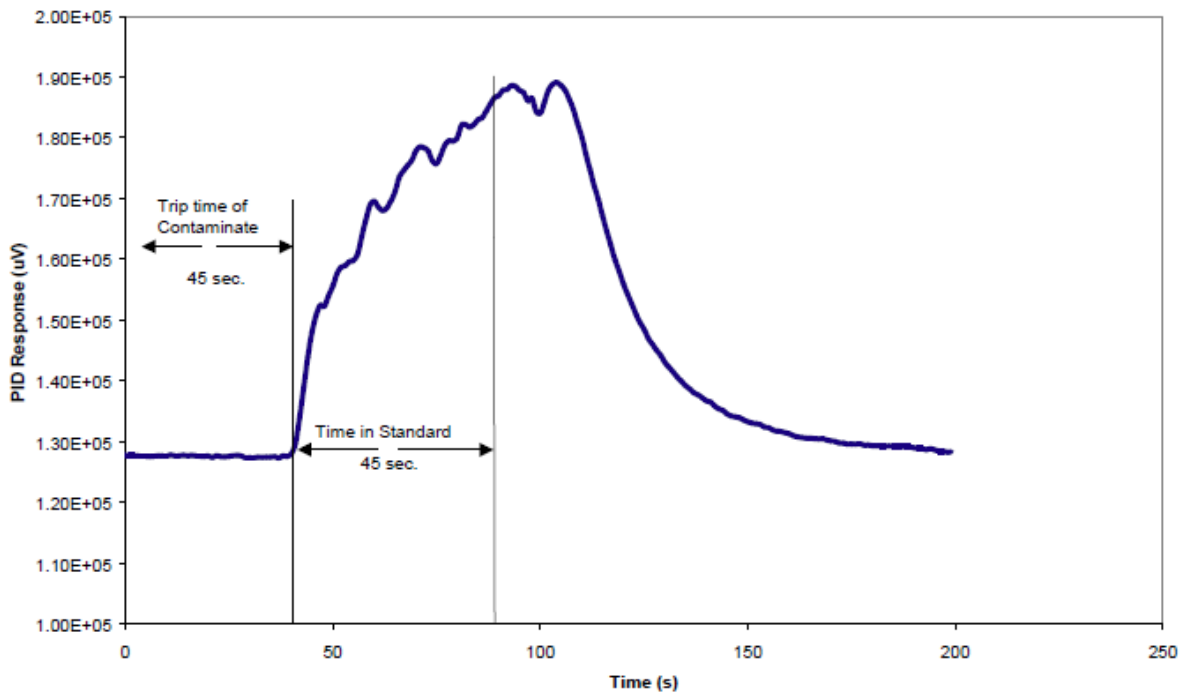
Response testing is an integral part of ensuring the quality of data from the MIP system. Response testing must be conducted before and after each log. This will ensure the validity of the data and the integrity of the system. Response testing also provides for comparison of data for later MIP logs at a particular site. However, results of the response test may change due to membrane wear from soil contact and abrasion.

Prior to conducting a response test, a response test standard solution is prepared by adding an appropriate volume of stock standard solution to 0.5 liters of clean water in a suitable measuring container (beaker or graduated cylinder) to produce a working standard, for example, 10 µL of 50

mg/mL concentration stock standard is added to 0.5 liters of water to yield a 1mg/L working standard. Generally, response test standard solutions are prepared using trichloroethene and toluene. However, response test standard solutions may be prepared based on the specific contaminants of concern at a site if necessary. Also prior to conducting the response test, the MIP is placed in clean water until detector response stabilization has occurred.

The working standard is poured into a 2-inch diameter by 30-inch long PVC or stainless steel pipe that is closed at one end. A stabilized MIP is inserted in the working standard for the duration of 30 seconds (Note: in the response test shown below, the MIP was inserted into the working standard for the duration of 45 seconds). The working standard cannot be reused after a response test.

The results of the response test are shown on the MIP data acquisition unit (shown below). The trip time is measured by recording the time between the moment when the MIP is placed in the working standard solution and the response of the detectors, as viewed on the MIP data acquisition unit. The baseline and peak response value are also recorded for comparison with other MIP response tests. The trip time is entered manually into the data acquisition system account for the time it takes for compounds in the subsurface to travel the length of the trunkline during the MIP boring.



**PID Response Test – 10 ppm Benzene**

**APPENDIX D**  
**LABORATORY ANALYTICAL RESULTS - SOIL**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

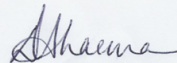
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Pleasanton  
1220 Quarry Lane  
Pleasanton, CA 94566  
Tel: (925)484-1919

TestAmerica Job ID: 720-55397-1  
Client Project/Site: 580 Market Place

For:  
Cardno ATC  
6602 Owens Drive Suite 100  
Pleasanton, California 94588

Attn: Scott Perkins



Authorized for release by:  
2/14/2014 4:31:46 PM

Dimple Sharma, Senior Project Manager  
(925)484-1919  
[dimple.sharma@testamericainc.com](mailto:dimple.sharma@testamericainc.com)

### LINKS

Review your project  
results through  
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Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Definitions/Glossary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

# Case Narrative

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Job ID: 720-55397-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

**Job Narrative**  
**720-55397-1**

### Comments

No additional comments.

### Receipt

The samples were received on 2/7/2014 2:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

Except:

The following sample was listed on the Chain of Custody (COC); however, no sample(s) was received: CB3-3 was not received. Samples logged on hold.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): CB12-9.5-10 and CB8-10-10.5. Logged samples in on hold. Picked a date for these samples to log-in since date was not on container.

### GC/MS VOA

Method 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 153226 recovered outside control limits for the following analytes: <<2-hexanone and MIBK>>.

Method 8260B: Internal standard responses were outside of acceptance limits for the following samples 720-55397-8, 11. The samples show evidence of matrix interference; confirmed by re-analysis.

Method 8260B: The continuing calibration verification (CCV) associated with batch 153298 recovered above the upper control limit for vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 720-153298/2).

Method 8260B: Internal standard responses were lower outside of acceptance limits for the following sample 55397-25 and confirmed by reanalysis.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch #153393 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260B: Internal standard responses were lower outside of acceptance limits for the following sample 55397-58 and confirmed by reanalysis. The sample shows evidence of matrix interference.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch #153503 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No other analytical or quality issues were noted.

### GC VOA

No analytical or quality issues were noted.

# Detection Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB8-14.5-15

Lab Sample ID: 720-55397-1

No Detections.

## Client Sample ID: CB8-19-19.5

Lab Sample ID: 720-55397-2

No Detections.

## Client Sample ID: CB8-19.5-20

Lab Sample ID: 720-55397-3

No Detections.

## Client Sample ID: CB8-25-25.5

Lab Sample ID: 720-55397-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	74		44		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB8-29.5-30

Lab Sample ID: 720-55397-5

No Detections.

## Client Sample ID: CB11-2.5-3

Lab Sample ID: 720-55397-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	21		4.2		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-3-3.5

Lab Sample ID: 720-55397-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	31		4.5		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-6

Lab Sample ID: 720-55397-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	76		44		ug/Kg	1		8260B	Total/NA
cis-1,2-Dichloroethene	5.8		4.4		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	160		4.4		ug/Kg	1		8260B	Total/NA
Trichloroethene	12		4.4		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-8

Lab Sample ID: 720-55397-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	48		47		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-10

Lab Sample ID: 720-55397-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	16		4.5		ug/Kg	1		8260B	Total/NA
Trichloroethene	21		4.5		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-11.5

Lab Sample ID: 720-55397-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		45		ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB11-11.5 (Continued)

Lab Sample ID: 720-55397-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	7.7		4.5		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	290		4.5		ug/Kg	1		8260B	Total/NA
Trichloroethene	9.8		4.5		ug/Kg	1		8260B	Total/NA
Xylenes, Total	52		8.9		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-19-19.5

Lab Sample ID: 720-55397-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	52		47		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB11-23-23.5

Lab Sample ID: 720-55397-13

No Detections.

## Client Sample ID: CB9-2

Lab Sample ID: 720-55397-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	30		4.7		ug/Kg	1		8260B	Total/NA
Trichloroethene	11		4.7		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB9-4

Lab Sample ID: 720-55397-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		4.9		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB9-6-6.5

Lab Sample ID: 720-55397-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		4.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB9-8

Lab Sample ID: 720-55397-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	67		48		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	5.9		4.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB7-2

Lab Sample ID: 720-55397-18

No Detections.

## Client Sample ID: CB7-4

Lab Sample ID: 720-55397-19

No Detections.

## Client Sample ID: CB7-6

Lab Sample ID: 720-55397-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		43		ug/Kg	1		8260B	Total/NA
Ethylbenzene	14		4.3		ug/Kg	1		8260B	Total/NA
Xylenes, Total	96		8.6		ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB7-8

Lab Sample ID: 720-55397-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		49		ug/Kg	1		8260B	Total/NA
Ethylbenzene	6.2		4.9		ug/Kg	1		8260B	Total/NA
Xylenes, Total	35		9.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB7-10

Lab Sample ID: 720-55397-22

No Detections.

## Client Sample ID: CB7-12

Lab Sample ID: 720-55397-23

No Detections.

## Client Sample ID: CB7-14

Lab Sample ID: 720-55397-24

No Detections.

## Client Sample ID: CB7-15

Lab Sample ID: 720-55397-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	92		44		ug/Kg	1		8260B	Total/NA
Ethylbenzene	6.3		4.4		ug/Kg	1		8260B	Total/NA
Xylenes, Total	38		8.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB7-20

Lab Sample ID: 720-55397-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	73		48		ug/Kg	1		8260B	Total/NA
Ethylbenzene	4.9		4.8		ug/Kg	1		8260B	Total/NA
Xylenes, Total	30		9.5		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB7-22

Lab Sample ID: 720-55397-27

No Detections.

## Client Sample ID: CB7-25

Lab Sample ID: 720-55397-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	77		46		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB7-32

Lab Sample ID: 720-55397-29

No Detections.

## Client Sample ID: CB8-2

Lab Sample ID: 720-55397-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	18		9.7		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB8-4

Lab Sample ID: 720-55397-31

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB8-6

Lab Sample ID: 720-55397-32

No Detections.

## Client Sample ID: CB8-7.5-8

Lab Sample ID: 720-55397-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	52		45		ug/Kg	1		8260B	Total/NA
Trichloroethene	5.5		4.5		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB8-8-8.5

Lab Sample ID: 720-55397-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	9.8		9.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB9-13-13.5

Lab Sample ID: 720-55397-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	62		49		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB9-18

Lab Sample ID: 720-55397-36

No Detections.

## Client Sample ID: CB9-24.5

Lab Sample ID: 720-55397-37

No Detections.

## Client Sample ID: CB10-3

Lab Sample ID: 720-55397-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	53		45		ug/Kg	1		8260B	Total/NA
cis-1,2-Dichloroethene	54		4.5		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	330		4.5		ug/Kg	1		8260B	Total/NA
Trichloroethene	870		25		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB10-4

Lab Sample ID: 720-55397-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	56		46		ug/Kg	1		8260B	Total/NA
cis-1,2-Dichloroethene	210		4.6		ug/Kg	1		8260B	Total/NA
trans-1,2-Dichloroethene	5.7		4.6		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	5.4		4.6		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB10-8-8.5

Lab Sample ID: 720-55397-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	35		4.6		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB10-22.5

Lab Sample ID: 720-55397-41

No Detections.

## Client Sample ID: CB3-4.5

Lab Sample ID: 720-55397-43

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB3-4.5 (Continued)

Lab Sample ID: 720-55397-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	63		4.9		ug/Kg	1		8260B	Total/NA
trans-1,2-Dichloroethene	5.7		4.9		ug/Kg	1		8260B	Total/NA
Trichloroethene	80		4.9		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB3-22-22.5

Lab Sample ID: 720-55397-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		46		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	6.6		4.6		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB3A-5-5.5

Lab Sample ID: 720-55397-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	20		4.4		ug/Kg	1		8260B	Total/NA
Trichloroethene	30		4.4		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB3A-6-6.5

Lab Sample ID: 720-55397-46

No Detections.

## Client Sample ID: CB3A-8-8.5

Lab Sample ID: 720-55397-47

No Detections.

## Client Sample ID: CB12-2-2.5

Lab Sample ID: 720-55397-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	16000		460		ug/Kg	100		8260B	Total/NA
Trichloroethene	210		23		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-4-4.5

Lab Sample ID: 720-55397-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	52		4.5		ug/Kg	1		8260B	Total/NA
trans-1,2-Dichloroethene	4.6		4.5		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	120		23		ug/Kg	1		8260B	Total/NA
Trichloroethene	180		23		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-6-6.5

Lab Sample ID: 720-55397-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		4.8		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	290		4.8		ug/Kg	1		8260B	Total/NA
Trichloroethene	9.5		4.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-7.5-8

Lab Sample ID: 720-55397-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	50		4.4		ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Detection Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB12-12-12.5

Lab Sample ID: 720-55397-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	98		22		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-14-14.5

Lab Sample ID: 720-55397-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	5.8		4.4		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	3600		470		ug/Kg	100		8260B	Total/NA
Trichloroethene	11		4.4		ug/Kg	1		8260B	Total/NA
Xylenes, Total	35		8.9		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-16.5-17

Lab Sample ID: 720-55397-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		50		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	91		5.0		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-22-22.5

Lab Sample ID: 720-55397-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		48		ug/Kg	1		8260B	Total/NA
Tetrachloroethene	39		4.8		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-23-23.5

Lab Sample ID: 720-55397-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	41		23		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB12-9.5-10

Lab Sample ID: 720-55397-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	100		4.6		ug/Kg	1		8260B	Total/NA

## Client Sample ID: CB8-10-10.5

Lab Sample ID: 720-55397-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		43		ug/Kg	1		8260B	Total/NA
Ethylbenzene	25		4.3		ug/Kg	1		8260B	Total/NA
Naphthalene	18	*	8.7		ug/Kg	1		8260B	Total/NA
Xylenes, Total	160		8.7		ug/Kg	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-14.5-15**

**Lab Sample ID: 720-55397-1**

**Date Collected: 02/05/14 15:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Acetone	ND		50		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Benzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Dichlorobromomethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Bromobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Chlorobromomethane	ND		20		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Bromoform	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Bromomethane	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
2-Butanone (MEK)	ND		50		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
n-Butylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
sec-Butylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
tert-Butylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Carbon disulfide	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Carbon tetrachloride	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Chlorobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Chloroethane	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Chloroform	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Chloromethane	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
2-Chlorotoluene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
4-Chlorotoluene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Chlorodibromomethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,3-Dichloropropane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1-Dichloropropene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Ethylene Dibromide	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Dibromomethane	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1-Dichloroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2-Dichloroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1-Dichloroethene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2-Dichloropropane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Ethylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Hexachlorobutadiene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
2-Hexanone	ND *		50		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Isopropylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
4-Isopropyltoluene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Methylene Chloride	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
4-Methyl-2-pentanone (MIBK)	ND *		50		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Naphthalene	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
N-Propylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Styrene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-14.5-15**

**Lab Sample ID: 720-55397-1**

**Date Collected: 02/05/14 15:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Tetrachloroethene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Toluene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Trichloroethene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Trichlorofluoromethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Vinyl acetate	ND		50		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Vinyl chloride	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
Xylenes, Total	ND		9.9		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
2,2-Dichloropropane	ND		5.0		ug/Kg		02/10/14 14:00	02/10/14 14:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	101		45 - 131				02/10/14 14:00	02/10/14 14:04	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140				02/10/14 14:00	02/10/14 14:04	1
Toluene-d8 (Surr)	100		58 - 140				02/10/14 14:00	02/10/14 14:04	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-19-19.5**

**Lab Sample ID: 720-55397-2**

**Date Collected: 02/05/14 16:00**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Acetone	ND		45		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Benzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Bromobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Chlorobromomethane	ND		18		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Bromoform	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Bromomethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
2-Butanone (MEK)	ND		45		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
n-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Carbon disulfide	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Chlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Chloroethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Chloroform	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Chloromethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Dibromomethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Ethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
2-Hexanone	ND *		45		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Isopropylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Methylene Chloride	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
4-Methyl-2-pentanone (MIBK)	ND *		45		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Naphthalene	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
N-Propylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Styrene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-19-19.5**

**Lab Sample ID: 720-55397-2**

Date Collected: 02/05/14 16:00

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Tetrachloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Toluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Trichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Vinyl acetate	ND		45		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Vinyl chloride	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
Xylenes, Total	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 14:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	98		45 - 131				02/10/14 14:08	02/10/14 14:30	1
1,2-Dichloroethane-d4 (Surr)	98		60 - 140				02/10/14 14:08	02/10/14 14:30	1
Toluene-d8 (Surr)	100		58 - 140				02/10/14 14:08	02/10/14 14:30	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-19.5-20**

**Lab Sample ID: 720-55397-3**

**Date Collected: 02/05/14 16:04**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Acetone	ND		43		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Benzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Dichlorobromomethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Bromobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Chlorobromomethane	ND		17		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Bromoform	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Bromomethane	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
2-Butanone (MEK)	ND		43		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
n-Butylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
sec-Butylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
tert-Butylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Carbon disulfide	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Carbon tetrachloride	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Chlorobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Chloroethane	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Chloroform	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Chloromethane	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
2-Chlorotoluene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
4-Chlorotoluene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Chlorodibromomethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,3-Dichloropropane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1-Dichloropropene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Ethylene Dibromide	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Dibromomethane	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1-Dichloroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2-Dichloroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1-Dichloroethene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2-Dichloropropane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Ethylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Hexachlorobutadiene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
2-Hexanone	ND *		43		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Isopropylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
4-Isopropyltoluene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Methylene Chloride	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
4-Methyl-2-pentanone (MIBK)	ND *		43		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Naphthalene	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
N-Propylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Styrene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-19.5-20**

**Lab Sample ID: 720-55397-3**

**Date Collected: 02/05/14 16:04**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Tetrachloroethene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Toluene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Trichloroethene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Trichlorofluoromethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Vinyl acetate	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Vinyl chloride	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
Xylenes, Total	ND		8.5		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
2,2-Dichloropropane	ND		4.3		ug/Kg		02/10/14 14:08	02/10/14 14:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100		45 - 131				02/10/14 14:08	02/10/14 14:56	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				02/10/14 14:08	02/10/14 14:56	1
Toluene-d8 (Surr)	99		58 - 140				02/10/14 14:08	02/10/14 14:56	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-25-25.5**

**Lab Sample ID: 720-55397-4**

**Date Collected: 02/05/14 16:15**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
<b>Acetone</b>	<b>74</b>		44		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Benzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Bromobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Chlorobromomethane	ND		18		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Bromoform	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Bromomethane	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
2-Butanone (MEK)	ND		44		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
n-Butylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
sec-Butylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
tert-Butylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Carbon disulfide	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Chlorobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Chloroethane	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Chloroform	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Chloromethane	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
2-Chlorotoluene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
4-Chlorotoluene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Dibromomethane	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Ethylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Hexachlorobutadiene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
2-Hexanone	ND *		44		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Isopropylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
4-Isopropyltoluene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Methylene Chloride	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
4-Methyl-2-pentanone (MIBK)	ND *		44		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Naphthalene	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
N-Propylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Styrene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-25-25.5**

**Lab Sample ID: 720-55397-4**

**Date Collected: 02/05/14 16:15**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Tetrachloroethene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Toluene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Trichloroethene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Vinyl acetate	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Vinyl chloride	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
Xylenes, Total	ND		8.8		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/10/14 14:08	02/10/14 15:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	96		45 - 131				02/10/14 14:08	02/10/14 15:22	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140				02/10/14 14:08	02/10/14 15:22	1
Toluene-d8 (Surr)	97		58 - 140				02/10/14 14:08	02/10/14 15:22	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-29.5-30**

**Lab Sample ID: 720-55397-5**

**Date Collected: 02/05/14 16:20**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Acetone	ND		50		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Benzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Dichlorobromomethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Bromobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Chlorobromomethane	ND		20		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Bromoform	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Bromomethane	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
2-Butanone (MEK)	ND		50		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
n-Butylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
sec-Butylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
tert-Butylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Carbon disulfide	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Carbon tetrachloride	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Chlorobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Chloroethane	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Chloroform	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Chloromethane	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
2-Chlorotoluene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
4-Chlorotoluene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Chlorodibromomethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,3-Dichloropropane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1-Dichloropropene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Ethylene Dibromide	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Dibromomethane	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1-Dichloroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2-Dichloroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1-Dichloroethene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2-Dichloropropane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Ethylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Hexachlorobutadiene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
2-Hexanone	ND *		50		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Isopropylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
4-Isopropyltoluene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Methylene Chloride	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
4-Methyl-2-pentanone (MIBK)	ND *		50		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Naphthalene	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
N-Propylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Styrene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-29.5-30**

**Lab Sample ID: 720-55397-5**

**Date Collected: 02/05/14 16:20**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Tetrachloroethene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Toluene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Trichloroethene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Trichlorofluoromethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Vinyl acetate	ND		50		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Vinyl chloride	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
Xylenes, Total	ND		9.9		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
2,2-Dichloropropane	ND		5.0		ug/Kg		02/10/14 14:08	02/10/14 15:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		45 - 131				02/10/14 14:08	02/10/14 15:48	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				02/10/14 14:08	02/10/14 15:48	1
Toluene-d8 (Surr)	98		58 - 140				02/10/14 14:08	02/10/14 15:48	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-2.5-3**

**Lab Sample ID: 720-55397-6**

**Date Collected: 02/06/14 08:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Acetone	ND		42		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Benzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Dichlorobromomethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Bromobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Chlorobromomethane	ND		17		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Bromoform	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Bromomethane	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
2-Butanone (MEK)	ND		42		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
n-Butylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
sec-Butylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
tert-Butylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Carbon disulfide	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Carbon tetrachloride	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Chlorobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Chloroethane	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Chloroform	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Chloromethane	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
2-Chlorotoluene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
4-Chlorotoluene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Chlorodibromomethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2-Dichlorobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,3-Dichlorobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,4-Dichlorobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,3-Dichloropropane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1-Dichloropropene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2-Dibromo-3-Chloropropane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Ethylene Dibromide	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Dibromomethane	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Dichlorodifluoromethane	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1-Dichloroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2-Dichloroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1-Dichloroethene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
cis-1,2-Dichloroethene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
trans-1,2-Dichloroethene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2-Dichloropropane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
cis-1,3-Dichloropropene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
trans-1,3-Dichloropropene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Ethylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Hexachlorobutadiene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
2-Hexanone	ND *		42		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Isopropylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
4-Isopropyltoluene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Methylene Chloride	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
4-Methyl-2-pentanone (MIBK)	ND *		42		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Naphthalene	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
N-Propylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Styrene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1,1,2-Tetrachloroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-2.5-3**

**Lab Sample ID: 720-55397-6**

Date Collected: 02/06/14 08:50

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
<b>Tetrachloroethene</b>	<b>21</b>		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Toluene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2,3-Trichlorobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2,4-Trichlorobenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1,1-Trichloroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1,2-Trichloroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Trichloroethene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Trichlorofluoromethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2,3-Trichloropropane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,2,4-Trimethylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
1,3,5-Trimethylbenzene	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Vinyl acetate	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Vinyl chloride	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
Xylenes, Total	ND		8.4		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
2,2-Dichloropropane	ND		4.2		ug/Kg		02/10/14 14:08	02/10/14 16:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		45 - 131				02/10/14 14:08	02/10/14 16:14	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140				02/10/14 14:08	02/10/14 16:14	1
Toluene-d8 (Surr)	98		58 - 140				02/10/14 14:08	02/10/14 16:14	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-3-3.5**

**Lab Sample ID: 720-55397-7**

**Date Collected: 02/06/14 08:55**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Acetone	ND		45		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Benzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Bromobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Chlorobromomethane	ND		18		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Bromoform	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Bromomethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
2-Butanone (MEK)	ND		45		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
n-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Carbon disulfide	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Chlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Chloroethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Chloroform	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Chloromethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Dibromomethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Ethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
2-Hexanone	ND *		45		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Isopropylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Methylene Chloride	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
4-Methyl-2-pentanone (MIBK)	ND *		45		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Naphthalene	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
N-Propylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Styrene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-3-3.5**

**Lab Sample ID: 720-55397-7**

**Date Collected: 02/06/14 08:55**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
<b>Tetrachloroethene</b>	<b>31</b>		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Toluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Trichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Vinyl acetate	ND		45		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Vinyl chloride	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
Xylenes, Total	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 16:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	99		45 - 131				02/10/14 14:08	02/10/14 16:40	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				02/10/14 14:08	02/10/14 16:40	1
Toluene-d8 (Surr)	97		58 - 140				02/10/14 14:08	02/10/14 16:40	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-6**

**Lab Sample ID: 720-55397-8**

**Date Collected: 02/06/14 09:02**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
<b>Acetone</b>	<b>76</b>		44		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Benzene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Bromobenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Bromoform	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Bromomethane	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
2-Butanone (MEK)	ND		44		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
n-Butylbenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
sec-Butylbenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
tert-Butylbenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Carbon disulfide	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Chlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Chloroethane	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Chloroform	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Chloromethane	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
2-Chlorotoluene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
4-Chlorotoluene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2-Dichlorobenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,3-Dichlorobenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,4-Dichlorobenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2-Dibromo-3-Chloropropane	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Dibromomethane	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
<b>cis-1,2-Dichloroethene</b>	<b>5.8</b>		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Ethylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Hexachlorobutadiene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
2-Hexanone	ND		44		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Isopropylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
4-Isopropyltoluene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Methylene Chloride	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Naphthalene	ND *		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
N-Propylbenzene	ND *		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Styrene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-6**

**Lab Sample ID: 720-55397-8**

Date Collected: 02/06/14 09:02

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
<b>Tetrachloroethene</b>	<b>160</b>		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Toluene	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2,3-Trichlorobenzene	ND	*	4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2,4-Trichlorobenzene	ND	*	4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
<b>Trichloroethene</b>	<b>12</b>		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2,3-Trichloropropane	ND	*	4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,2,4-Trimethylbenzene	ND	*	4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
1,3,5-Trimethylbenzene	ND	*	4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Vinyl acetate	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Vinyl chloride	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
Xylenes, Total	ND		8.8		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/11/14 20:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	86		45 - 131				02/11/14 18:09	02/11/14 20:43	1
1,2-Dichloroethane-d4 (Surr)	117		60 - 140				02/11/14 18:09	02/11/14 20:43	1
Toluene-d8 (Surr)	91		58 - 140				02/11/14 18:09	02/11/14 20:43	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-8**

**Lab Sample ID: 720-55397-9**

**Date Collected: 02/06/14 09:05**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
<b>Acetone</b>	<b>48</b>		47		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Benzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Dichlorobromomethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Bromobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Chlorobromomethane	ND		19		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Bromoform	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Bromomethane	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
2-Butanone (MEK)	ND		47		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
n-Butylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
sec-Butylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
tert-Butylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Carbon disulfide	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Carbon tetrachloride	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Chlorobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Chloroethane	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Chloroform	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Chloromethane	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
2-Chlorotoluene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
4-Chlorotoluene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Chlorodibromomethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,3-Dichloropropane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1-Dichloropropene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Ethylene Dibromide	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Dibromomethane	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Dichlorodifluoromethane	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1-Dichloroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2-Dichloroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1-Dichloroethene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2-Dichloropropane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Ethylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Hexachlorobutadiene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
2-Hexanone	ND *		47		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Isopropylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
4-Isopropyltoluene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Methylene Chloride	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
4-Methyl-2-pentanone (MIBK)	ND *		47		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Naphthalene	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
N-Propylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Styrene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-8**

**Lab Sample ID: 720-55397-9**

Date Collected: 02/06/14 09:05

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Tetrachloroethene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Toluene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Trichloroethene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Trichlorofluoromethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Vinyl acetate	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Vinyl chloride	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
Xylenes, Total	ND		9.3		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
2,2-Dichloropropane	ND		4.7		ug/Kg		02/10/14 14:08	02/10/14 18:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	99		45 - 131				02/10/14 14:08	02/10/14 18:24	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140				02/10/14 14:08	02/10/14 18:24	1
Toluene-d8 (Surr)	100		58 - 140				02/10/14 14:08	02/10/14 18:24	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-10**

**Lab Sample ID: 720-55397-10**

**Date Collected: 02/06/14 09:12**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Acetone	ND		45		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Benzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Bromobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Chlorobromomethane	ND		18		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Bromoform	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Bromomethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
2-Butanone (MEK)	ND		45		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
n-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Carbon disulfide	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Chlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Chloroethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Chloroform	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Chloromethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Dibromomethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Ethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
2-Hexanone	ND *		45		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Isopropylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Methylene Chloride	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
4-Methyl-2-pentanone (MIBK)	ND *		45		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Naphthalene	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
N-Propylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Styrene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-10**

**Lab Sample ID: 720-55397-10**

Date Collected: 02/06/14 09:12

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
<b>Tetrachloroethene</b>	<b>16</b>		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Toluene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
<b>Trichloroethene</b>	<b>21</b>		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Vinyl acetate	ND		45		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Vinyl chloride	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
Xylenes, Total	ND		9.0		ug/Kg		02/10/14 14:08	02/10/14 18:50	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/10/14 14:08	02/10/14 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131	02/10/14 14:08	02/10/14 18:50	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140	02/10/14 14:08	02/10/14 18:50	1
Toluene-d8 (Surr)	98		58 - 140	02/10/14 14:08	02/10/14 18:50	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-11.5**

**Lab Sample ID: 720-55397-11**

**Date Collected: 02/06/14 09:16**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
<b>Acetone</b>	<b>110</b>		45		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Benzene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Bromobenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Bromoform	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Bromomethane	ND		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
2-Butanone (MEK)	ND		45		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
n-Butylbenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
sec-Butylbenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
tert-Butylbenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Carbon disulfide	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Chlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Chloroethane	ND		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Chloroform	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Chloromethane	ND		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
2-Chlorotoluene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
4-Chlorotoluene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2-Dichlorobenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,3-Dichlorobenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,4-Dichlorobenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2-Dibromo-3-Chloropropane	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Dibromomethane	ND		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Dichlorodifluoromethane	ND		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
<b>Ethylbenzene</b>	<b>7.7</b>		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Hexachlorobutadiene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
2-Hexanone	ND		45		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Isopropylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
4-Isopropyltoluene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Methylene Chloride	ND		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Naphthalene	ND *		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
N-Propylbenzene	ND *		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Styrene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-11.5**

**Lab Sample ID: 720-55397-11**

Date Collected: 02/06/14 09:16

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
<b>Tetrachloroethene</b>	<b>290</b>		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Toluene	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2,3-Trichlorobenzene	ND	*	4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2,4-Trichlorobenzene	ND	*	4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
<b>Trichloroethene</b>	<b>9.8</b>		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2,3-Trichloropropane	ND	*	4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,2,4-Trimethylbenzene	ND	*	4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
1,3,5-Trimethylbenzene	ND	*	4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Vinyl acetate	ND		45		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
Vinyl chloride	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
<b>Xylenes, Total</b>	<b>52</b>		8.9		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/11/14 21:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	76		45 - 131				02/11/14 18:09	02/11/14 21:09	1
1,2-Dichloroethane-d4 (Surr)	121		60 - 140				02/11/14 18:09	02/11/14 21:09	1
Toluene-d8 (Surr)	88		58 - 140				02/11/14 18:09	02/11/14 21:09	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-19-19.5**

**Lab Sample ID: 720-55397-12**

**Date Collected: 02/06/14 09:45**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
<b>Acetone</b>	<b>52</b>		47		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Benzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Dichlorobromomethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Bromobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Bromoform	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Bromomethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
2-Butanone (MEK)	ND		47		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
n-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
sec-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
tert-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Carbon disulfide	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Carbon tetrachloride	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Chlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Chloroethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Chloroform	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Chloromethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
2-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
4-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Chlorodibromomethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,3-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Ethylene Dibromide	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Dibromomethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1-Dichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2-Dichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Ethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Hexachlorobutadiene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
2-Hexanone	ND		47		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Isopropylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
4-Isopropyltoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Methylene Chloride	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Naphthalene	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
N-Propylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Styrene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-19-19.5**

**Lab Sample ID: 720-55397-12**

Date Collected: 02/06/14 09:45

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Tetrachloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Toluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Trichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Trichlorofluoromethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Vinyl acetate	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Vinyl chloride	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
Xylenes, Total	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
2,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 23:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		45 - 131				02/11/14 18:09	02/11/14 23:19	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140				02/11/14 18:09	02/11/14 23:19	1
Toluene-d8 (Surr)	98		58 - 140				02/11/14 18:09	02/11/14 23:19	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-23-23.5**

**Lab Sample ID: 720-55397-13**

**Date Collected: 02/06/14 10:05**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Acetone	ND		49		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Benzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Dichlorobromomethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Bromobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Bromoform	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Bromomethane	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
2-Butanone (MEK)	ND		49		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
n-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
sec-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
tert-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Carbon disulfide	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Carbon tetrachloride	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Chlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Chloroethane	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Chloroform	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Chloromethane	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
2-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
4-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Chlorodibromomethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,3-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Ethylene Dibromide	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Dibromomethane	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1-Dichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2-Dichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Ethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Hexachlorobutadiene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
2-Hexanone	ND		49		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Isopropylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
4-Isopropyltoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Methylene Chloride	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Naphthalene	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
N-Propylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Styrene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB11-23-23.5**

**Lab Sample ID: 720-55397-13**

Date Collected: 02/06/14 10:05

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Tetrachloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Toluene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Trichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Trichlorofluoromethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Vinyl acetate	ND		49		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Vinyl chloride	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
Xylenes, Total	ND		9.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1
2,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/11/14 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131	02/11/14 18:09	02/11/14 23:44	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140	02/11/14 18:09	02/11/14 23:44	1
Toluene-d8 (Surr)	99		58 - 140	02/11/14 18:09	02/11/14 23:44	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-2**

**Lab Sample ID: 720-55397-14**

**Date Collected: 02/06/14 10:15**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Acetone	ND		47		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Benzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Dichlorobromomethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Bromobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Bromoform	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Bromomethane	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
2-Butanone (MEK)	ND		47		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
n-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
sec-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
tert-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Carbon disulfide	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Carbon tetrachloride	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Chlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Chloroethane	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Chloroform	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Chloromethane	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
2-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
4-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Chlorodibromomethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,3-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Ethylene Dibromide	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Dibromomethane	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1-Dichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2-Dichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Ethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Hexachlorobutadiene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
2-Hexanone	ND		47		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Isopropylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
4-Isopropyltoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Methylene Chloride	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Naphthalene	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
N-Propylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Styrene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-2**

**Lab Sample ID: 720-55397-14**

Date Collected: 02/06/14 10:15

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
<b>Tetrachloroethene</b>	<b>30</b>		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Toluene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
<b>Trichloroethene</b>	<b>11</b>		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Trichlorofluoromethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Vinyl acetate	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Vinyl chloride	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
Xylenes, Total	ND		9.4		ug/Kg		02/11/14 18:09	02/12/14 00:10	1
2,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/12/14 00:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		45 - 131	02/11/14 18:09	02/12/14 00:10	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140	02/11/14 18:09	02/12/14 00:10	1
Toluene-d8 (Surr)	99		58 - 140	02/11/14 18:09	02/12/14 00:10	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-4**

**Lab Sample ID: 720-55397-15**

**Date Collected: 02/06/14 10:20**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Acetone	ND		49		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Benzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Dichlorobromomethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Bromobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Bromoform	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Bromomethane	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
2-Butanone (MEK)	ND		49		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
n-Butylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
sec-Butylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
tert-Butylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Carbon disulfide	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Carbon tetrachloride	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Chlorobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Chloroethane	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Chloroform	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Chloromethane	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
2-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
4-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Chlorodibromomethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,3-Dichloropropane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1-Dichloropropene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Ethylene Dibromide	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Dibromomethane	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1-Dichloroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2-Dichloroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1-Dichloroethene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
<b>cis-1,2-Dichloroethene</b>	<b>7.0</b>		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Ethylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Hexachlorobutadiene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
2-Hexanone	ND		49		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Isopropylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
4-Isopropyltoluene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Methylene Chloride	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Naphthalene	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
N-Propylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Styrene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-4**

**Lab Sample ID: 720-55397-15**

Date Collected: 02/06/14 10:20

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Tetrachloroethene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Toluene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Trichloroethene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Trichlorofluoromethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Vinyl acetate	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Vinyl chloride	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
Xylenes, Total	ND		9.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
2,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 10:56	02/11/14 15:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	90		45 - 131				02/11/14 10:56	02/11/14 15:18	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 140				02/11/14 10:56	02/11/14 15:18	1
Toluene-d8 (Surr)	97		58 - 140				02/11/14 10:56	02/11/14 15:18	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-6-6.5**

**Lab Sample ID: 720-55397-16**

**Date Collected: 02/06/14 10:35**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Acetone	ND		48		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Benzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Bromoform	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Bromomethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Chloroethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Chloroform	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Chloromethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Dibromomethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Ethylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
2-Hexanone	ND		48		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Methylene Chloride	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Naphthalene	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Styrene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-6-6.5**

**Lab Sample ID: 720-55397-16**

Date Collected: 02/06/14 10:35

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
<b>Tetrachloroethene</b>	<b>11</b>		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Toluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Trichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Vinyl acetate	ND		48		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
Xylenes, Total	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 11:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		45 - 131				02/11/14 11:07	02/11/14 11:32	1
1,2-Dichloroethane-d4 (Surr)	115		60 - 140				02/11/14 11:07	02/11/14 11:32	1
Toluene-d8 (Surr)	100		58 - 140				02/11/14 11:07	02/11/14 11:32	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-8**

**Lab Sample ID: 720-55397-17**

**Date Collected: 02/06/14 10:40**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
<b>Acetone</b>	<b>67</b>		48		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Benzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Bromoform	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Bromomethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Chloroethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Chloroform	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Chloromethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Dibromomethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Ethylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
2-Hexanone	ND		48		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Methylene Chloride	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Naphthalene	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Styrene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-8**

**Lab Sample ID: 720-55397-17**

Date Collected: 02/06/14 10:40

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
<b>Tetrachloroethene</b>	<b>5.9</b>		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Toluene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Trichloroethene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Vinyl acetate	ND		48		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
Xylenes, Total	ND		9.6		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 11:07	02/11/14 15:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	102		45 - 131				02/11/14 11:07	02/11/14 15:32	1
1,2-Dichloroethane-d4 (Surr)	118		60 - 140				02/11/14 11:07	02/11/14 15:32	1
Toluene-d8 (Surr)	102		58 - 140				02/11/14 11:07	02/11/14 15:32	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-2**

**Lab Sample ID: 720-55397-18**

**Date Collected: 02/05/14 14:30**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Acetone	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Benzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Bromobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Bromoform	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Bromomethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
2-Butanone (MEK)	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
n-Butylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Carbon disulfide	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Chlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Chloroethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Chloroform	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Chloromethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Dibromomethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Ethylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
2-Hexanone	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Isopropylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Methylene Chloride	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Naphthalene	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
N-Propylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Styrene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-2**

**Lab Sample ID: 720-55397-18**

Date Collected: 02/05/14 14:30

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Tetrachloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Toluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Trichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Vinyl acetate	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Vinyl chloride	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
Xylenes, Total	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100		45 - 131				02/11/14 11:07	02/11/14 16:01	1
1,2-Dichloroethane-d4 (Surr)	121		60 - 140				02/11/14 11:07	02/11/14 16:01	1
Toluene-d8 (Surr)	101		58 - 140				02/11/14 11:07	02/11/14 16:01	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-4**

**Lab Sample ID: 720-55397-19**

**Date Collected: 02/05/14 14:32**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Acetone	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Benzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Bromobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Bromoform	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Bromomethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
2-Butanone (MEK)	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
n-Butylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Carbon disulfide	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Chlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Chloroethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Chloroform	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Chloromethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Dibromomethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Ethylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
2-Hexanone	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Isopropylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Methylene Chloride	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Naphthalene	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
N-Propylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Styrene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-4**

**Lab Sample ID: 720-55397-19**

Date Collected: 02/05/14 14:32

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Tetrachloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Toluene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Trichloroethene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Vinyl acetate	ND		46		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Vinyl chloride	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
Xylenes, Total	ND		9.1		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 11:07	02/11/14 16:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	101		45 - 131				02/11/14 11:07	02/11/14 16:31	1
1,2-Dichloroethane-d4 (Surr)	120		60 - 140				02/11/14 11:07	02/11/14 16:31	1
Toluene-d8 (Surr)	101		58 - 140				02/11/14 11:07	02/11/14 16:31	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-6**

**Lab Sample ID: 720-55397-20**

**Date Collected: 02/05/14 14:40**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
<b>Acetone</b>	<b>150</b>		43		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Benzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Dichlorobromomethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Bromobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Chlorobromomethane	ND		17		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Bromoform	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Bromomethane	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
2-Butanone (MEK)	ND		43		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
n-Butylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
sec-Butylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
tert-Butylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Carbon disulfide	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Carbon tetrachloride	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Chlorobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Chloroethane	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Chloroform	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Chloromethane	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
2-Chlorotoluene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
4-Chlorotoluene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Chlorodibromomethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,3-Dichloropropane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1-Dichloropropene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Ethylene Dibromide	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Dibromomethane	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Dichlorodifluoromethane	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1-Dichloroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2-Dichloroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1-Dichloroethene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2-Dichloropropane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
<b>Ethylbenzene</b>	<b>14</b>		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Hexachlorobutadiene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
2-Hexanone	ND		43		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Isopropylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
4-Isopropyltoluene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Methylene Chloride	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Naphthalene	ND		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
N-Propylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Styrene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-6**

**Lab Sample ID: 720-55397-20**

Date Collected: 02/05/14 14:40

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Tetrachloroethene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Toluene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Trichloroethene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Trichlorofluoromethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Vinyl acetate	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
Vinyl chloride	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
<b>Xylenes, Total</b>	<b>96</b>		8.6		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
2,2-Dichloropropane	ND		4.3		ug/Kg		02/11/14 11:07	02/11/14 17:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	101		45 - 131				02/11/14 11:07	02/11/14 17:00	1
1,2-Dichloroethane-d4 (Surr)	122		60 - 140				02/11/14 11:07	02/11/14 17:00	1
Toluene-d8 (Surr)	100		58 - 140				02/11/14 11:07	02/11/14 17:00	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-8**

**Lab Sample ID: 720-55397-21**

**Date Collected: 02/05/14 14:42**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
<b>Acetone</b>	<b>110</b>		49		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Benzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Dichlorobromomethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Bromobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Bromoform	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Bromomethane	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
2-Butanone (MEK)	ND		49		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
n-Butylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
sec-Butylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
tert-Butylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Carbon disulfide	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Carbon tetrachloride	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Chlorobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Chloroethane	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Chloroform	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Chloromethane	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
2-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
4-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Chlorodibromomethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,3-Dichloropropane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1-Dichloropropene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Ethylene Dibromide	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Dibromomethane	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1-Dichloroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2-Dichloroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1-Dichloroethene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
<b>Ethylbenzene</b>	<b>6.2</b>		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Hexachlorobutadiene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
2-Hexanone	ND		49		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Isopropylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
4-Isopropyltoluene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Methylene Chloride	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Naphthalene	ND		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
N-Propylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Styrene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-8**

**Lab Sample ID: 720-55397-21**

Date Collected: 02/05/14 14:42

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Tetrachloroethene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Toluene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Trichloroethene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Trichlorofluoromethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Vinyl acetate	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
Vinyl chloride	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
<b>Xylenes, Total</b>	<b>35</b>		9.8		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
2,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 11:07	02/11/14 17:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		45 - 131				02/11/14 11:07	02/11/14 17:29	1
1,2-Dichloroethane-d4 (Surr)	127		60 - 140				02/11/14 11:07	02/11/14 17:29	1
Toluene-d8 (Surr)	98		58 - 140				02/11/14 11:07	02/11/14 17:29	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-10**

**Lab Sample ID: 720-55397-22**

**Date Collected: 02/05/14 14:45**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Acetone	ND		46		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Benzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Bromobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Chlorobromomethane	ND		18		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Bromoform	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Bromomethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
2-Butanone (MEK)	ND		46		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
n-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Carbon disulfide	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Chlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Chloroethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Chloroform	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Chloromethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Dibromomethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Ethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
2-Hexanone	ND		46		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Isopropylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Methylene Chloride	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Naphthalene	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
N-Propylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Styrene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-10**

**Lab Sample ID: 720-55397-22**

Date Collected: 02/05/14 14:45

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Tetrachloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Toluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Trichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Vinyl acetate	ND		46		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Vinyl chloride	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
Xylenes, Total	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 01:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	96		45 - 131				02/13/14 19:06	02/14/14 01:22	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140				02/13/14 19:06	02/14/14 01:22	1
Toluene-d8 (Surr)	95		58 - 140				02/13/14 19:06	02/14/14 01:22	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-12**

**Lab Sample ID: 720-55397-23**

**Date Collected: 02/05/14 14:47**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Acetone	ND		47		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Benzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Dichlorobromomethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Bromobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Bromoform	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Bromomethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
2-Butanone (MEK)	ND		47		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
n-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
sec-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
tert-Butylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Carbon disulfide	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Carbon tetrachloride	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Chlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Chloroethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Chloroform	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Chloromethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
2-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
4-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Chlorodibromomethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,3-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Ethylene Dibromide	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Dibromomethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1-Dichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2-Dichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Ethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Hexachlorobutadiene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
2-Hexanone	ND		47		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Isopropylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
4-Isopropyltoluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Methylene Chloride	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Naphthalene	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
N-Propylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Styrene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-12**

**Lab Sample ID: 720-55397-23**

**Date Collected: 02/05/14 14:47**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Tetrachloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Toluene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Trichloroethene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Trichlorofluoromethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Vinyl acetate	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Vinyl chloride	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
Xylenes, Total	ND		9.5		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
2,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 18:09	02/11/14 21:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	92		45 - 131				02/11/14 18:09	02/11/14 21:35	1
1,2-Dichloroethane-d4 (Surr)	109		60 - 140				02/11/14 18:09	02/11/14 21:35	1
Toluene-d8 (Surr)	92		58 - 140				02/11/14 18:09	02/11/14 21:35	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-14**  
**Date Collected: 02/05/14 14:48**  
**Date Received: 02/07/14 14:25**

**Lab Sample ID: 720-55397-24**  
**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Acetone	ND		44		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Benzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Bromobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Bromoform	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Bromomethane	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
2-Butanone (MEK)	ND		44		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
n-Butylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
sec-Butylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
tert-Butylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Carbon disulfide	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Chlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Chloroethane	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Chloroform	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Chloromethane	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
2-Chlorotoluene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
4-Chlorotoluene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Dibromomethane	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Ethylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Hexachlorobutadiene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
2-Hexanone	ND		44		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Isopropylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
4-Isopropyltoluene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Methylene Chloride	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Naphthalene	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
N-Propylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Styrene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-14**

**Lab Sample ID: 720-55397-24**

**Date Collected: 02/05/14 14:48**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Tetrachloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Toluene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Trichloroethene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Vinyl acetate	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Vinyl chloride	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
Xylenes, Total	ND		8.8		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 18:09	02/12/14 00:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		45 - 131				02/11/14 18:09	02/12/14 00:36	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140				02/11/14 18:09	02/12/14 00:36	1
Toluene-d8 (Surr)	99		58 - 140				02/11/14 18:09	02/12/14 00:36	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-15**  
**Date Collected: 02/05/14 14:50**  
**Date Received: 02/07/14 14:25**

**Lab Sample ID: 720-55397-25**  
**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
<b>Acetone</b>	<b>92</b>		44		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Benzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Bromobenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Chlorobromomethane	ND		18		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Bromoform	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Bromomethane	ND		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
2-Butanone (MEK)	ND		44		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
n-Butylbenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
sec-Butylbenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
tert-Butylbenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Carbon disulfide	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Chlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Chloroethane	ND		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Chloroform	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Chloromethane	ND		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
2-Chlorotoluene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
4-Chlorotoluene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2-Dichlorobenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,3-Dichlorobenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,4-Dichlorobenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2-Dibromo-3-Chloropropane	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Dibromomethane	ND		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
<b>Ethylbenzene</b>	<b>6.3</b>		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Hexachlorobutadiene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
2-Hexanone	ND		44		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Isopropylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
4-Isopropyltoluene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Methylene Chloride	ND		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Naphthalene	ND *		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
N-Propylbenzene	ND *		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Styrene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-15**

**Lab Sample ID: 720-55397-25**

**Date Collected: 02/05/14 14:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Tetrachloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Toluene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2,3-Trichlorobenzene	ND	*	4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2,4-Trichlorobenzene	ND	*	4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Trichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2,3-Trichloropropane	ND	*	4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,2,4-Trimethylbenzene	ND	*	4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
1,3,5-Trimethylbenzene	ND	*	4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Vinyl acetate	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
Vinyl chloride	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
<b>Xylenes, Total</b>	<b>38</b>		8.8		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 19:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	83		45 - 131				02/12/14 10:00	02/12/14 19:29	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140				02/12/14 10:00	02/12/14 19:29	1
Toluene-d8 (Surr)	94		58 - 140				02/12/14 10:00	02/12/14 19:29	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-20**

**Lab Sample ID: 720-55397-26**

**Date Collected: 02/05/14 14:58**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
<b>Acetone</b>	<b>73</b>		48		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Benzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Bromoform	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Bromomethane	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Chloroethane	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Chloroform	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Chloromethane	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Dibromomethane	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
<b>Ethylbenzene</b>	<b>4.9</b>		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
2-Hexanone	ND		48		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Methylene Chloride	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Naphthalene	ND		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Styrene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-20**

**Lab Sample ID: 720-55397-26**

**Date Collected: 02/05/14 14:58**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Tetrachloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Toluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Trichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Vinyl acetate	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
<b>Xylenes, Total</b>	<b>30</b>		9.5		ug/Kg		02/11/14 18:09	02/12/14 01:28	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		45 - 131	02/11/14 18:09	02/12/14 01:28	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	02/11/14 18:09	02/12/14 01:28	1
Toluene-d8 (Surr)	94		58 - 140	02/11/14 18:09	02/12/14 01:28	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-22**  
**Date Collected: 02/05/14 15:00**  
**Date Received: 02/07/14 14:25**

**Lab Sample ID: 720-55397-27**  
**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Acetone	ND		50		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Benzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Dichlorobromomethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Bromobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Bromoform	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Bromomethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
2-Butanone (MEK)	ND		50		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
n-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
sec-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
tert-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Carbon disulfide	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Carbon tetrachloride	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Chlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Chloroethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Chloroform	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Chloromethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
2-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
4-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Chlorodibromomethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,3-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Ethylene Dibromide	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Dibromomethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1-Dichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2-Dichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Ethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Hexachlorobutadiene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
2-Hexanone	ND		50		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Isopropylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
4-Isopropyltoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Methylene Chloride	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Naphthalene	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
N-Propylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Styrene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-22**

**Lab Sample ID: 720-55397-27**

**Date Collected: 02/05/14 15:00**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Tetrachloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Toluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Trichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Trichlorofluoromethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Vinyl acetate	ND		50		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Vinyl chloride	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
Xylenes, Total	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 01:54	1
2,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	02/11/14 18:09	02/12/14 01:54	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	02/11/14 18:09	02/12/14 01:54	1
Toluene-d8 (Surr)	96		58 - 140	02/11/14 18:09	02/12/14 01:54	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-25**  
**Date Collected: 02/05/14 15:05**  
**Date Received: 02/07/14 14:25**

**Lab Sample ID: 720-55397-28**  
**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
<b>Acetone</b>	<b>77</b>		46		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Benzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Bromobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Bromoform	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Bromomethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
2-Butanone (MEK)	ND		46		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
n-Butylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Carbon disulfide	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Chlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Chloroethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Chloroform	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Chloromethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Dibromomethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Ethylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
2-Hexanone	ND		46		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Isopropylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Methylene Chloride	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Naphthalene	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
N-Propylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Styrene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-25**

**Lab Sample ID: 720-55397-28**

**Date Collected: 02/05/14 15:05**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Tetrachloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Toluene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Trichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Vinyl acetate	ND		46		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Vinyl chloride	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
Xylenes, Total	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 02:20	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/12/14 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	02/11/14 18:09	02/12/14 02:20	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140	02/11/14 18:09	02/12/14 02:20	1
Toluene-d8 (Surr)	98		58 - 140	02/11/14 18:09	02/12/14 02:20	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-32**

**Lab Sample ID: 720-55397-29**

**Date Collected: 02/05/14 15:10**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Acetone	ND		50		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Benzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Dichlorobromomethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Bromobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Bromoform	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Bromomethane	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
2-Butanone (MEK)	ND		50		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
n-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
sec-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
tert-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Carbon disulfide	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Carbon tetrachloride	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Chlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Chloroethane	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Chloroform	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Chloromethane	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
2-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
4-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Chlorodibromomethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,3-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Ethylene Dibromide	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Dibromomethane	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Dichlorodifluoromethane	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1-Dichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2-Dichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Ethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Hexachlorobutadiene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
2-Hexanone	ND		50		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Isopropylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
4-Isopropyltoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Methylene Chloride	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Naphthalene	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
N-Propylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Styrene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB7-32**

**Lab Sample ID: 720-55397-29**

**Date Collected: 02/05/14 15:10**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Tetrachloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Toluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Trichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Trichlorofluoromethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Vinyl acetate	ND		50		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Vinyl chloride	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
Xylenes, Total	ND		10		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
2,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 02:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	98		45 - 131				02/11/14 18:09	02/12/14 02:46	1
1,2-Dichloroethane-d4 (Surr)	106		60 - 140				02/11/14 18:09	02/12/14 02:46	1
Toluene-d8 (Surr)	99		58 - 140				02/11/14 18:09	02/12/14 02:46	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-2**

**Lab Sample ID: 720-55397-30**

**Date Collected: 02/05/14 15:30**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Acetone	ND		48		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Benzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Bromoform	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Bromomethane	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Chloroethane	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Chloroform	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Chloromethane	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Dibromomethane	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Ethylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
2-Hexanone	ND		48		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Methylene Chloride	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Naphthalene	ND		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Styrene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-2**

**Lab Sample ID: 720-55397-30**

Date Collected: 02/05/14 15:30

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Tetrachloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Toluene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Trichloroethene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Vinyl acetate	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
<b>Xylenes, Total</b>	<b>18</b>		9.7		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 18:09	02/12/14 03:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	98		45 - 131				02/11/14 18:09	02/12/14 03:12	1
1,2-Dichloroethane-d4 (Surr)	104		60 - 140				02/11/14 18:09	02/12/14 03:12	1
Toluene-d8 (Surr)	98		58 - 140				02/11/14 18:09	02/12/14 03:12	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-4**

**Lab Sample ID: 720-55397-31**

**Date Collected: 02/05/14 15:35**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Acetone	ND		46		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Benzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Bromobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Bromoform	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Bromomethane	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
2-Butanone (MEK)	ND		46		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
n-Butylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Carbon disulfide	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Chlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Chloroethane	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Chloroform	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Chloromethane	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Dibromomethane	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Ethylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
2-Hexanone	ND		46		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Isopropylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Methylene Chloride	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Naphthalene	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
N-Propylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Styrene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-4**

**Lab Sample ID: 720-55397-31**

Date Collected: 02/05/14 15:35

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Tetrachloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Toluene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Trichloroethene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Vinyl acetate	ND		46		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Vinyl chloride	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
Xylenes, Total	ND		9.1		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 18:09	02/11/14 22:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100		45 - 131				02/11/14 18:09	02/11/14 22:00	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				02/11/14 18:09	02/11/14 22:00	1
Toluene-d8 (Surr)	101		58 - 140				02/11/14 18:09	02/11/14 22:00	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-6**  
**Date Collected: 02/05/14 15:37**  
**Date Received: 02/07/14 14:25**

**Lab Sample ID: 720-55397-32**  
**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Acetone	ND		48		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Benzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Bromoform	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Bromomethane	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Chloroethane	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Chloroform	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Chloromethane	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Dibromomethane	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Ethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
2-Hexanone	ND		48		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Methylene Chloride	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Naphthalene	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Styrene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-6**

**Lab Sample ID: 720-55397-32**

Date Collected: 02/05/14 15:37

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Tetrachloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Toluene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Trichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Vinyl acetate	ND		48		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
Xylenes, Total	ND		9.6		ug/Kg		02/11/14 20:27	02/11/14 22:16	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/11/14 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		45 - 131	02/11/14 20:27	02/11/14 22:16	1
1,2-Dichloroethane-d4 (Surr)	77		60 - 140	02/11/14 20:27	02/11/14 22:16	1
Toluene-d8 (Surr)	99		58 - 140	02/11/14 20:27	02/11/14 22:16	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-7.5-8**

**Lab Sample ID: 720-55397-33**

Date Collected: 02/05/14 15:39

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
<b>Acetone</b>	<b>52</b>		45		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Benzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Bromobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Bromoform	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Bromomethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
2-Butanone (MEK)	ND		45		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
n-Butylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Carbon disulfide	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Chlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Chloroethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Chloroform	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Chloromethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Dibromomethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Ethylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
2-Hexanone	ND		45		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Isopropylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Methylene Chloride	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Naphthalene	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
N-Propylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Styrene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-7.5-8**

**Lab Sample ID: 720-55397-33**

Date Collected: 02/05/14 15:39

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Tetrachloroethene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Toluene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
<b>Trichloroethene</b>	<b>5.5</b>		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Vinyl acetate	ND		45		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Vinyl chloride	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
Xylenes, Total	ND		9.1		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 18:09	02/12/14 03:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	93		45 - 131				02/11/14 18:09	02/12/14 03:38	1
1,2-Dichloroethane-d4 (Surr)	111		60 - 140				02/11/14 18:09	02/12/14 03:38	1
Toluene-d8 (Surr)	94		58 - 140				02/11/14 18:09	02/12/14 03:38	1

# Client Sample Results

Client: Cardno ATC  
 Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-8-5.5**

**Lab Sample ID: 720-55397-34**

**Date Collected: 02/05/14 15:40**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Acetone	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Benzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Dichlorobromomethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Bromobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Bromoform	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Bromomethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
2-Butanone (MEK)	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
n-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
sec-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
tert-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Carbon disulfide	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Carbon tetrachloride	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Chlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Chloroethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Chloroform	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Chloromethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
2-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
4-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Chlorodibromomethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,3-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Ethylene Dibromide	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Dibromomethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1-Dichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2-Dichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Ethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Hexachlorobutadiene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
2-Hexanone	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Isopropylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
4-Isopropyltoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Methylene Chloride	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Naphthalene	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
N-Propylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Styrene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-8-8.5**

**Lab Sample ID: 720-55397-34**

**Date Collected: 02/05/14 15:40**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Tetrachloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Toluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Trichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Trichlorofluoromethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Vinyl acetate	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
Vinyl chloride	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
<b>Xylenes, Total</b>	<b>9.8</b>		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
2,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		45 - 131				02/11/14 18:09	02/12/14 04:04	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140				02/11/14 18:09	02/12/14 04:04	1
Toluene-d8 (Surr)	98		58 - 140				02/11/14 18:09	02/12/14 04:04	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-13-13.5**

**Lab Sample ID: 720-55397-35**

**Date Collected: 02/06/14 11:00**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
<b>Acetone</b>	<b>62</b>		49		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Benzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Dichlorobromomethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Bromobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Bromoform	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Bromomethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
2-Butanone (MEK)	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
n-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
sec-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
tert-Butylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Carbon disulfide	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Carbon tetrachloride	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Chlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Chloroethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Chloroform	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Chloromethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
2-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
4-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Chlorodibromomethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,3-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Ethylene Dibromide	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Dibromomethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1-Dichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2-Dichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Ethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Hexachlorobutadiene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
2-Hexanone	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Isopropylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
4-Isopropyltoluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Methylene Chloride	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Naphthalene	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
N-Propylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Styrene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-13-13.5**

**Lab Sample ID: 720-55397-35**

Date Collected: 02/06/14 11:00

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Tetrachloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Toluene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Trichloroethene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Trichlorofluoromethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Vinyl acetate	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Vinyl chloride	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
Xylenes, Total	ND		9.8		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
2,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 18:09	02/12/14 04:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	95		45 - 131				02/11/14 18:09	02/12/14 04:30	1
1,2-Dichloroethane-d4 (Surr)	108		60 - 140				02/11/14 18:09	02/12/14 04:30	1
Toluene-d8 (Surr)	99		58 - 140				02/11/14 18:09	02/12/14 04:30	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-18**

**Lab Sample ID: 720-55397-36**

**Date Collected: 02/06/14 11:20**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Acetone	ND		50		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Benzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Dichlorobromomethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Bromobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Bromoform	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Bromomethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
2-Butanone (MEK)	ND		50		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
n-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
sec-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
tert-Butylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Carbon disulfide	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Carbon tetrachloride	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Chlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Chloroethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Chloroform	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Chloromethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
2-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
4-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Chlorodibromomethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,3-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Ethylene Dibromide	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Dibromomethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1-Dichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2-Dichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Ethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Hexachlorobutadiene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
2-Hexanone	ND		50		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Isopropylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
4-Isopropyltoluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Methylene Chloride	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Naphthalene	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
N-Propylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Styrene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-18**

**Lab Sample ID: 720-55397-36**

**Date Collected: 02/06/14 11:20**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Tetrachloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Toluene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Trichloroethene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Trichlorofluoromethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Vinyl acetate	ND		50		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Vinyl chloride	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
Xylenes, Total	ND		9.9		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
2,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 18:09	02/12/14 04:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	96		45 - 131				02/11/14 18:09	02/12/14 04:56	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140				02/11/14 18:09	02/12/14 04:56	1
Toluene-d8 (Surr)	98		58 - 140				02/11/14 18:09	02/12/14 04:56	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-24.5**

**Lab Sample ID: 720-55397-37**

**Date Collected: 02/06/14 11:30**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Acetone	ND		50		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Benzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Dichlorobromomethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Bromobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Chlorobromomethane	ND		20		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Bromoform	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Bromomethane	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
2-Butanone (MEK)	ND		50		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
n-Butylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
sec-Butylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
tert-Butylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Carbon disulfide	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Carbon tetrachloride	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Chlorobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Chloroethane	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Chloroform	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Chloromethane	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
2-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
4-Chlorotoluene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Chlorodibromomethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,3-Dichloropropane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1-Dichloropropene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Ethylene Dibromide	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Dibromomethane	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Dichlorodifluoromethane	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1-Dichloroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2-Dichloroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1-Dichloroethene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Ethylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Hexachlorobutadiene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
2-Hexanone	ND		50		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Isopropylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
4-Isopropyltoluene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Methylene Chloride	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Naphthalene	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
N-Propylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Styrene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB9-24.5**

**Lab Sample ID: 720-55397-37**

Date Collected: 02/06/14 11:30

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Tetrachloroethene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Toluene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Trichloroethene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Trichlorofluoromethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Vinyl acetate	ND		50		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Vinyl chloride	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
Xylenes, Total	ND		10		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
2,2-Dichloropropane	ND		5.0		ug/Kg		02/11/14 20:27	02/11/14 23:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	91		45 - 131				02/11/14 20:27	02/11/14 23:42	1
1,2-Dichloroethane-d4 (Surr)	83		60 - 140				02/11/14 20:27	02/11/14 23:42	1
Toluene-d8 (Surr)	97		58 - 140				02/11/14 20:27	02/11/14 23:42	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-3**

**Lab Sample ID: 720-55397-38**

**Date Collected: 02/06/14 12:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
<b>Acetone</b>	<b>53</b>		45		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Benzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Bromobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Bromoform	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Bromomethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
2-Butanone (MEK)	ND		45		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
n-Butylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Carbon disulfide	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Chlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Chloroethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Chloroform	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Chloromethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Dibromomethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
<b>cis-1,2-Dichloroethene</b>	<b>54</b>		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Ethylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
2-Hexanone	ND		45		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Isopropylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Methylene Chloride	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Naphthalene	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
N-Propylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Styrene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-3**

**Lab Sample ID: 720-55397-38**

**Date Collected: 02/06/14 12:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
<b>Tetrachloroethene</b>	<b>330</b>		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Toluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
<b>Trichloroethene</b>	<b>870</b>		25		ug/Kg		02/12/14 10:00	02/12/14 19:57	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Vinyl acetate	ND		45		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Vinyl chloride	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
Xylenes, Total	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 00:11	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	02/11/14 20:27	02/12/14 00:11	1
4-Bromofluorobenzene	90		45 - 131	02/12/14 10:00	02/12/14 19:57	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140	02/11/14 20:27	02/12/14 00:11	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 140	02/12/14 10:00	02/12/14 19:57	1
Toluene-d8 (Surr)	97		58 - 140	02/11/14 20:27	02/12/14 00:11	1
Toluene-d8 (Surr)	96		58 - 140	02/12/14 10:00	02/12/14 19:57	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-4**

**Lab Sample ID: 720-55397-39**

**Date Collected: 02/06/14 12:52**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
<b>Acetone</b>	<b>56</b>		46		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Benzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Bromobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Bromoform	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Bromomethane	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
2-Butanone (MEK)	ND		46		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
n-Butylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Carbon disulfide	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Chlorobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Chloroethane	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Chloroform	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Chloromethane	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Dibromomethane	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
<b>cis-1,2-Dichloroethene</b>	<b>210</b>		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
<b>trans-1,2-Dichloroethene</b>	<b>5.7</b>		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Ethylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
2-Hexanone	ND		46		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Isopropylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Methylene Chloride	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Naphthalene	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
N-Propylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Styrene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-4**

**Lab Sample ID: 720-55397-39**

Date Collected: 02/06/14 12:52

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
<b>Tetrachloroethene</b>	<b>5.4</b>		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Toluene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Vinyl acetate	ND		46		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Vinyl chloride	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Xylenes, Total	ND		9.1		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/11/14 20:27	02/12/14 00:39	1
Trichloroethene	ND		470		ug/Kg		02/13/14 08:00	02/13/14 14:47	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		45 - 131	02/11/14 20:27	02/12/14 00:39	1
4-Bromofluorobenzene	100		66 - 148	02/13/14 08:00	02/13/14 14:47	100
1,2-Dichloroethane-d4 (Surr)	82		60 - 140	02/11/14 20:27	02/12/14 00:39	1
1,2-Dichloroethane-d4 (Surr)	95		62 - 137	02/13/14 08:00	02/13/14 14:47	100
Toluene-d8 (Surr)	97		58 - 140	02/11/14 20:27	02/12/14 00:39	1
Toluene-d8 (Surr)	99		65 - 141	02/13/14 08:00	02/13/14 14:47	100

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-8-8.5**

**Lab Sample ID: 720-55397-40**

**Date Collected: 02/06/14 13:27**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Acetone	ND		46		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Benzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Bromobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Chlorobromomethane	ND		18		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Bromoform	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Bromomethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
2-Butanone (MEK)	ND		46		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
n-Butylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Carbon disulfide	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Chlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Chloroethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Chloroform	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Chloromethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Dibromomethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
<b>cis-1,2-Dichloroethene</b>	<b>35</b>		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Ethylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
2-Hexanone	ND		46		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Isopropylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Methylene Chloride	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Naphthalene	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
N-Propylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Styrene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-8-8.5**

**Lab Sample ID: 720-55397-40**

Date Collected: 02/06/14 13:27

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Tetrachloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Toluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Trichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Vinyl acetate	ND		46		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Vinyl chloride	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
Xylenes, Total	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 20:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	90		45 - 131				02/12/14 10:00	02/12/14 20:55	1
1,2-Dichloroethane-d4 (Surr)	95		60 - 140				02/12/14 10:00	02/12/14 20:55	1
Toluene-d8 (Surr)	97		58 - 140				02/12/14 10:00	02/12/14 20:55	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-22.5**

**Lab Sample ID: 720-55397-41**

**Date Collected: 02/06/14 14:06**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Acetone	ND		47		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Benzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Dichlorobromomethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Bromobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Bromoform	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Bromomethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
2-Butanone (MEK)	ND		47		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
n-Butylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
sec-Butylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
tert-Butylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Carbon disulfide	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Carbon tetrachloride	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Chlorobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Chloroethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Chloroform	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Chloromethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
2-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
4-Chlorotoluene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Chlorodibromomethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,3-Dichloropropane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1-Dichloropropene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Ethylene Dibromide	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Dibromomethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1-Dichloroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2-Dichloroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1-Dichloroethene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Ethylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Hexachlorobutadiene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
2-Hexanone	ND		47		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Isopropylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
4-Isopropyltoluene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Methylene Chloride	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Naphthalene	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
N-Propylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Styrene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB10-22.5**

**Lab Sample ID: 720-55397-41**

Date Collected: 02/06/14 14:06

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Tetrachloroethene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Toluene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Trichloroethene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Trichlorofluoromethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Vinyl acetate	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Vinyl chloride	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
Xylenes, Total	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 01:37	1
2,2-Dichloropropane	ND		4.7		ug/Kg		02/11/14 20:27	02/12/14 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		45 - 131	02/11/14 20:27	02/12/14 01:37	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 140	02/11/14 20:27	02/12/14 01:37	1
Toluene-d8 (Surr)	97		58 - 140	02/11/14 20:27	02/12/14 01:37	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3-4.5**

**Lab Sample ID: 720-55397-43**

**Date Collected: 02/06/14 14:40**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Acetone	ND		49		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Benzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Dichlorobromomethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Bromobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Bromoform	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Bromomethane	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
2-Butanone (MEK)	ND		49		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
n-Butylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
sec-Butylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
tert-Butylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Carbon disulfide	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Carbon tetrachloride	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Chlorobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Chloroethane	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Chloroform	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Chloromethane	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
2-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
4-Chlorotoluene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Chlorodibromomethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,3-Dichloropropane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1-Dichloropropene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Ethylene Dibromide	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Dibromomethane	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1-Dichloroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2-Dichloroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1-Dichloroethene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
<b>cis-1,2-Dichloroethene</b>	<b>63</b>		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
<b>trans-1,2-Dichloroethene</b>	<b>5.7</b>		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Ethylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Hexachlorobutadiene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
2-Hexanone	ND		49		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Isopropylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
4-Isopropyltoluene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Methylene Chloride	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Naphthalene	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
N-Propylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Styrene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3-4.5**

**Lab Sample ID: 720-55397-43**

Date Collected: 02/06/14 14:40

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Tetrachloroethene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Toluene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
<b>Trichloroethene</b>	<b>80</b>		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Trichlorofluoromethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Vinyl acetate	ND		49		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Vinyl chloride	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
Xylenes, Total	ND		9.7		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
2,2-Dichloropropane	ND		4.9		ug/Kg		02/11/14 20:27	02/12/14 02:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	90		45 - 131				02/11/14 20:27	02/12/14 02:06	1
1,2-Dichloroethane-d4 (Surr)	85		60 - 140				02/11/14 20:27	02/12/14 02:06	1
Toluene-d8 (Surr)	97		58 - 140				02/11/14 20:27	02/12/14 02:06	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3-22-22.5**

**Lab Sample ID: 720-55397-44**

**Date Collected: 02/06/14 15:40**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
<b>Acetone</b>	<b>120</b>		46		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Benzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Bromobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Chlorobromomethane	ND		18		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Bromoform	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Bromomethane	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
2-Butanone (MEK)	ND		46		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
n-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Carbon disulfide	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Chlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Chloroethane	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Chloroform	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Chloromethane	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Dibromomethane	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Ethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
2-Hexanone	ND		46		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Isopropylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Methylene Chloride	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Naphthalene	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
N-Propylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Styrene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3-22-22.5**

**Lab Sample ID: 720-55397-44**

Date Collected: 02/06/14 15:40

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
<b>Tetrachloroethene</b>	<b>6.6</b>		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Toluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Trichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Vinyl acetate	ND		46		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Vinyl chloride	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
Xylenes, Total	ND		9.2		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 00:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	85		45 - 131				02/13/14 19:06	02/14/14 00:53	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				02/13/14 19:06	02/14/14 00:53	1
Toluene-d8 (Surr)	93		58 - 140				02/13/14 19:06	02/14/14 00:53	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3A-5-5.5**

**Lab Sample ID: 720-55397-45**

**Date Collected: 02/07/14 07:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Acetone	ND		44		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Benzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Bromobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Bromoform	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Bromomethane	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
2-Butanone (MEK)	ND		44		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
n-Butylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
sec-Butylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
tert-Butylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Carbon disulfide	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Chlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Chloroethane	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Chloroform	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Chloromethane	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
2-Chlorotoluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
4-Chlorotoluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Dibromomethane	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Ethylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Hexachlorobutadiene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
2-Hexanone	ND		44		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Isopropylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
4-Isopropyltoluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Methylene Chloride	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Naphthalene	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
N-Propylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Styrene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3A-5-5.5**

**Lab Sample ID: 720-55397-45**

Date Collected: 02/07/14 07:50

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
<b>Tetrachloroethene</b>	<b>20</b>		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Toluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
<b>Trichloroethene</b>	<b>30</b>		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Vinyl acetate	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Vinyl chloride	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
Xylenes, Total	ND		8.8		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 03:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	91		45 - 131				02/11/14 20:27	02/12/14 03:03	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140				02/11/14 20:27	02/12/14 03:03	1
Toluene-d8 (Surr)	96		58 - 140				02/11/14 20:27	02/12/14 03:03	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3A-6-6.5**

**Lab Sample ID: 720-55397-46**

**Date Collected: 02/07/14 07:55**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Acetone	ND		190		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Benzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Dichlorobromomethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Bromobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Chlorobromomethane	ND		76		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Bromoform	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Bromomethane	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
2-Butanone (MEK)	ND		190		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
n-Butylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
sec-Butylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
tert-Butylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Carbon disulfide	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Carbon tetrachloride	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Chlorobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Chloroethane	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Chloroform	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Chloromethane	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
2-Chlorotoluene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
4-Chlorotoluene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Chlorodibromomethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2-Dichlorobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,3-Dichlorobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,4-Dichlorobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,3-Dichloropropane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1-Dichloropropene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2-Dibromo-3-Chloropropane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Ethylene Dibromide	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Dibromomethane	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Dichlorodifluoromethane	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1-Dichloroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2-Dichloroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1-Dichloroethene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
cis-1,2-Dichloroethene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
trans-1,2-Dichloroethene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2-Dichloropropane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
cis-1,3-Dichloropropene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
trans-1,3-Dichloropropene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Ethylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Hexachlorobutadiene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
2-Hexanone	ND		190		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Isopropylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
4-Isopropyltoluene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Methylene Chloride	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
4-Methyl-2-pentanone (MIBK)	ND		190		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Naphthalene	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
N-Propylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Styrene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1,1,2-Tetrachloroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3A-6-6.5**

**Lab Sample ID: 720-55397-46**

Date Collected: 02/07/14 07:55

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Tetrachloroethene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Toluene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2,3-Trichlorobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2,4-Trichlorobenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1,1-Trichloroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1,2-Trichloroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Trichloroethene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Trichlorofluoromethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2,3-Trichloropropane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,2,4-Trimethylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
1,3,5-Trimethylbenzene	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Vinyl acetate	ND		190		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Vinyl chloride	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
Xylenes, Total	ND		38		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
2,2-Dichloropropane	ND		19		ug/Kg		02/13/14 19:06	02/13/14 21:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		45 - 131				02/13/14 19:06	02/13/14 21:31	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140				02/13/14 19:06	02/13/14 21:31	1
Toluene-d8 (Surr)	98		58 - 140				02/13/14 19:06	02/13/14 21:31	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3A-8-8.5**

**Lab Sample ID: 720-55397-47**

**Date Collected: 02/07/14 07:59**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Acetone	ND		48		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Benzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Bromoform	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Bromomethane	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Chloroethane	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Chloroform	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Chloromethane	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Dibromomethane	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Ethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
2-Hexanone	ND		48		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Methylene Chloride	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Naphthalene	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Styrene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB3A-8-8.5**

**Lab Sample ID: 720-55397-47**

Date Collected: 02/07/14 07:59

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Tetrachloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Toluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Trichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Vinyl acetate	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
Xylenes, Total	ND		9.6		ug/Kg		02/11/14 20:27	02/12/14 04:00	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	84		45 - 131	02/11/14 20:27	02/12/14 04:00	1
1,2-Dichloroethane-d4 (Surr)	86		60 - 140	02/11/14 20:27	02/12/14 04:00	1
Toluene-d8 (Surr)	95		58 - 140	02/11/14 20:27	02/12/14 04:00	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-2-2.5**

**Lab Sample ID: 720-55397-48**

**Date Collected: 02/07/14 08:30**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Acetone	ND		230		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Benzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Dichlorobromomethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Bromobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Chlorobromomethane	ND		93		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Bromoform	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Bromomethane	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
2-Butanone (MEK)	ND		230		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
n-Butylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
sec-Butylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
tert-Butylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Carbon disulfide	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Carbon tetrachloride	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Chlorobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Chloroethane	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Chloroform	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Chloromethane	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
2-Chlorotoluene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
4-Chlorotoluene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Chlorodibromomethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2-Dichlorobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,3-Dichlorobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,4-Dichlorobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,3-Dichloropropane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1-Dichloropropene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2-Dibromo-3-Chloropropane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Ethylene Dibromide	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Dibromomethane	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Dichlorodifluoromethane	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1-Dichloroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2-Dichloroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1-Dichloroethene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
cis-1,2-Dichloroethene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
trans-1,2-Dichloroethene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2-Dichloropropane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
cis-1,3-Dichloropropene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
trans-1,3-Dichloropropene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Ethylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Hexachlorobutadiene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
2-Hexanone	ND		230		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Isopropylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
4-Isopropyltoluene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Methylene Chloride	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
4-Methyl-2-pentanone (MIBK)	ND		230		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Naphthalene	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
N-Propylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Styrene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1,1,2-Tetrachloroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-2-2.5**

**Lab Sample ID: 720-55397-48**

Date Collected: 02/07/14 08:30

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
<b>Tetrachloroethene</b>	<b>16000</b>		460		ug/Kg		02/14/14 08:00	02/14/14 11:39	100
Toluene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2,3-Trichlorobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2,4-Trichlorobenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1,1-Trichloroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1,2-Trichloroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
<b>Trichloroethene</b>	<b>210</b>		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Trichlorofluoromethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2,3-Trichloropropane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,2,4-Trimethylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
1,3,5-Trimethylbenzene	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Vinyl acetate	ND		230		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Vinyl chloride	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
Xylenes, Total	ND		46		ug/Kg		02/13/14 19:06	02/13/14 21:59	1
2,2-Dichloropropane	ND		23		ug/Kg		02/13/14 19:06	02/13/14 21:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		45 - 131	02/13/14 19:06	02/13/14 21:59	1
4-Bromofluorobenzene	99		66 - 148	02/14/14 08:00	02/14/14 11:39	100
1,2-Dichloroethane-d4 (Surr)	99		60 - 140	02/13/14 19:06	02/13/14 21:59	1
1,2-Dichloroethane-d4 (Surr)	97		62 - 137	02/14/14 08:00	02/14/14 11:39	100
Toluene-d8 (Surr)	97		58 - 140	02/13/14 19:06	02/13/14 21:59	1
Toluene-d8 (Surr)	100		65 - 141	02/14/14 08:00	02/14/14 11:39	100

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-4-4.5**

**Lab Sample ID: 720-55397-49**

**Date Collected: 02/07/14 08:35**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Acetone	ND		45		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Benzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Bromobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Chlorobromomethane	ND		18		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Bromoform	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Bromomethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
2-Butanone (MEK)	ND		45		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
n-Butylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Carbon disulfide	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Chlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Chloroethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Chloroform	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Chloromethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Dibromomethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Dichlorodifluoromethane	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
<b>cis-1,2-Dichloroethene</b>	<b>52</b>		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
<b>trans-1,2-Dichloroethene</b>	<b>4.6</b>		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Ethylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
2-Hexanone	ND		45		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Isopropylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Methylene Chloride	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Naphthalene	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
N-Propylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Styrene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-4-4.5**

**Lab Sample ID: 720-55397-49**

Date Collected: 02/07/14 08:35

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
<b>Tetrachloroethene</b>	<b>120</b>		23		ug/Kg		02/13/14 19:06	02/13/14 22:28	1
Toluene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
<b>Trichloroethene</b>	<b>180</b>		23		ug/Kg		02/13/14 19:06	02/13/14 22:28	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Vinyl acetate	ND		45		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Vinyl chloride	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
Xylenes, Total	ND		9.0		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/11/14 20:27	02/12/14 04:58	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	84		45 - 131				02/11/14 20:27	02/12/14 04:58	1
4-Bromofluorobenzene	95		45 - 131				02/13/14 19:06	02/13/14 22:28	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 140				02/11/14 20:27	02/12/14 04:58	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140				02/13/14 19:06	02/13/14 22:28	1
Toluene-d8 (Surr)	94		58 - 140				02/11/14 20:27	02/12/14 04:58	1
Toluene-d8 (Surr)	95		58 - 140				02/13/14 19:06	02/13/14 22:28	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-6-6.5**

**Lab Sample ID: 720-55397-50**

**Date Collected: 02/07/14 08:45**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Acetone	ND		48		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Benzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Bromobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Chlorobromomethane	ND		19		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Bromoform	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Bromomethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
2-Butanone (MEK)	ND		48		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
n-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Carbon disulfide	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Chlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Chloroethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Chloroform	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Chloromethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Dibromomethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
<b>cis-1,2-Dichloroethene</b>	<b>10</b>		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Ethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
2-Hexanone	ND		48		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Isopropylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Methylene Chloride	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Naphthalene	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
N-Propylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Styrene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-6-6.5**

**Lab Sample ID: 720-55397-50**

Date Collected: 02/07/14 08:45

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
<b>Tetrachloroethene</b>	<b>290</b>		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Toluene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
<b>Trichloroethene</b>	<b>9.5</b>		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Vinyl acetate	ND		48		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Vinyl chloride	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
Xylenes, Total	ND		9.5		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/11/14 20:27	02/12/14 05:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	86		45 - 131				02/11/14 20:27	02/12/14 05:27	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 140				02/11/14 20:27	02/12/14 05:27	1
Toluene-d8 (Surr)	95		58 - 140				02/11/14 20:27	02/12/14 05:27	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-7.5-8**

**Lab Sample ID: 720-55397-51**

**Date Collected: 02/07/14 08:48**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Acetone	ND		49		ug/Kg		02/11/14 20:27	02/12/14 05:55	1
Benzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Bromobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Chlorobromomethane	ND		18		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Bromoform	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Bromomethane	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
2-Butanone (MEK)	ND		44		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
n-Butylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
sec-Butylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
tert-Butylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Carbon disulfide	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Chlorobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Chloroethane	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Chloroform	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Chloromethane	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
2-Chlorotoluene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
4-Chlorotoluene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Dibromomethane	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Ethylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Hexachlorobutadiene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
2-Hexanone	ND		44		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Isopropylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
4-Isopropyltoluene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Methylene Chloride	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Naphthalene	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
N-Propylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Styrene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-7.5-8**

**Lab Sample ID: 720-55397-51**

Date Collected: 02/07/14 08:48

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
<b>Tetrachloroethene</b>	<b>50</b>		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Toluene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Trichloroethene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Vinyl acetate	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Vinyl chloride	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
Xylenes, Total	ND		8.8		ug/Kg		02/13/14 19:06	02/14/14 01:51	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/13/14 19:06	02/14/14 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	82		45 - 131	02/11/14 20:27	02/12/14 05:55	1
4-Bromofluorobenzene	89		45 - 131	02/13/14 19:06	02/14/14 01:51	1
1,2-Dichloroethane-d4 (Surr)	82		60 - 140	02/11/14 20:27	02/12/14 05:55	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140	02/13/14 19:06	02/14/14 01:51	1
Toluene-d8 (Surr)	93		58 - 140	02/11/14 20:27	02/12/14 05:55	1
Toluene-d8 (Surr)	92		58 - 140	02/13/14 19:06	02/14/14 01:51	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-12-12.5**

**Lab Sample ID: 720-55397-52**

**Date Collected: 02/07/14 09:09**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Acetone	ND		44		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Benzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Bromobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Chlorobromomethane	ND		17		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Bromoform	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Bromomethane	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
2-Butanone (MEK)	ND		44		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
n-Butylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
sec-Butylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
tert-Butylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Carbon disulfide	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Chlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Chloroethane	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Chloroform	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Chloromethane	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
2-Chlorotoluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
4-Chlorotoluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Dibromomethane	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Dichlorodifluoromethane	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Ethylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Hexachlorobutadiene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
2-Hexanone	ND		44		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Isopropylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
4-Isopropyltoluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Methylene Chloride	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Naphthalene	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
N-Propylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Styrene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-12-12.5**

**Lab Sample ID: 720-55397-52**

Date Collected: 02/07/14 09:09

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
<b>Tetrachloroethene</b>	<b>98</b>		22		ug/Kg		02/13/14 19:06	02/13/14 22:57	1
Toluene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Trichloroethene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Vinyl acetate	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Vinyl chloride	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
Xylenes, Total	ND		8.7		ug/Kg		02/11/14 20:27	02/12/14 06:24	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/11/14 20:27	02/12/14 06:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		45 - 131	02/11/14 20:27	02/12/14 06:24	1
4-Bromofluorobenzene	97		45 - 131	02/13/14 19:06	02/13/14 22:57	1
1,2-Dichloroethane-d4 (Surr)	84		60 - 140	02/11/14 20:27	02/12/14 06:24	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140	02/13/14 19:06	02/13/14 22:57	1
Toluene-d8 (Surr)	94		58 - 140	02/11/14 20:27	02/12/14 06:24	1
Toluene-d8 (Surr)	97		58 - 140	02/13/14 19:06	02/13/14 22:57	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-14-14.5**

**Lab Sample ID: 720-55397-53**

**Date Collected: 02/07/14 09:11**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Acetone	ND		44		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Benzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Dichlorobromomethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Bromobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Chlorobromomethane	ND		18		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Bromoform	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Bromomethane	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
2-Butanone (MEK)	ND		44		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
n-Butylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
sec-Butylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
tert-Butylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Carbon disulfide	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Carbon tetrachloride	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Chlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Chloroethane	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Chloroform	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Chloromethane	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
2-Chlorotoluene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
4-Chlorotoluene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Chlorodibromomethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,3-Dichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1-Dichloropropene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2-Dibromo-3-Chloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Ethylene Dibromide	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Dibromomethane	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Dichlorodifluoromethane	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1-Dichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2-Dichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1-Dichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2-Dichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
<b>Ethylbenzene</b>	<b>5.8</b>		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Hexachlorobutadiene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
2-Hexanone	ND		44		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Isopropylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
4-Isopropyltoluene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Methylene Chloride	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Naphthalene	ND		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
N-Propylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Styrene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-14-14.5**

**Lab Sample ID: 720-55397-53**

Date Collected: 02/07/14 09:11

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
<b>Tetrachloroethene</b>	<b>3600</b>		470		ug/Kg		02/13/14 08:00	02/13/14 13:55	100
Toluene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
<b>Trichloroethene</b>	<b>11</b>		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Trichlorofluoromethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Vinyl acetate	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
Vinyl chloride	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
<b>Xylenes, Total</b>	<b>35</b>		8.9		ug/Kg		02/12/14 10:00	02/12/14 14:13	1
2,2-Dichloropropane	ND		4.4		ug/Kg		02/12/14 10:00	02/12/14 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	92		45 - 131	02/12/14 10:00	02/12/14 14:13	1
4-Bromofluorobenzene	102		66 - 148	02/13/14 08:00	02/13/14 13:55	100
1,2-Dichloroethane-d4 (Surr)	89		60 - 140	02/12/14 10:00	02/12/14 14:13	1
1,2-Dichloroethane-d4 (Surr)	90		62 - 137	02/13/14 08:00	02/13/14 13:55	100
Toluene-d8 (Surr)	98		58 - 140	02/12/14 10:00	02/12/14 14:13	1
Toluene-d8 (Surr)	99		65 - 141	02/13/14 08:00	02/13/14 13:55	100



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-16.5-17**

**Lab Sample ID: 720-55397-54**

**Date Collected: 02/07/14 09:30**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
<b>Acetone</b>	<b>110</b>		50		ug/Kg		02/13/14 19:06	02/14/14 02:20	1
Benzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Dichlorobromomethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Bromobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Chlorobromomethane	ND		18		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Bromoform	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Bromomethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
2-Butanone (MEK)	ND		45		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
n-Butylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
sec-Butylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
tert-Butylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Carbon disulfide	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Carbon tetrachloride	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Chlorobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Chloroethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Chloroform	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Chloromethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
2-Chlorotoluene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
4-Chlorotoluene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Chlorodibromomethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,3-Dichloropropane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1-Dichloropropene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Ethylene Dibromide	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Dibromomethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1-Dichloroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2-Dichloroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1-Dichloroethene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2-Dichloropropane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Ethylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Hexachlorobutadiene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
2-Hexanone	ND		45		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Isopropylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
4-Isopropyltoluene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Methylene Chloride	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Naphthalene	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
N-Propylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Styrene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-16.5-17**

**Lab Sample ID: 720-55397-54**

Date Collected: 02/07/14 09:30

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
<b>Tetrachloroethene</b>	<b>91</b>		5.0		ug/Kg		02/13/14 19:06	02/14/14 02:20	1
Toluene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Trichloroethene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Trichlorofluoromethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Vinyl acetate	ND		45		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Vinyl chloride	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
Xylenes, Total	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 15:39	1
2,2-Dichloropropane	ND		4.5		ug/Kg		02/12/14 10:00	02/12/14 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	02/12/14 10:00	02/12/14 15:39	1
4-Bromofluorobenzene	91		45 - 131	02/13/14 19:06	02/14/14 02:20	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 140	02/12/14 10:00	02/12/14 15:39	1
1,2-Dichloroethane-d4 (Surr)	103		60 - 140	02/13/14 19:06	02/14/14 02:20	1
Toluene-d8 (Surr)	99		58 - 140	02/12/14 10:00	02/12/14 15:39	1
Toluene-d8 (Surr)	93		58 - 140	02/13/14 19:06	02/14/14 02:20	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-22-22.5**

**Lab Sample ID: 720-55397-55**

**Date Collected: 02/07/14 10:00**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
<b>Acetone</b>	<b>120</b>		48		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Benzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Dichlorobromomethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Bromobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Chlorobromomethane	ND		19		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Bromoform	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Bromomethane	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
2-Butanone (MEK)	ND		48		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
n-Butylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
sec-Butylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
tert-Butylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Carbon disulfide	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Carbon tetrachloride	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Chlorobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Chloroethane	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Chloroform	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Chloromethane	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
2-Chlorotoluene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
4-Chlorotoluene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Chlorodibromomethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,3-Dichloropropane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1-Dichloropropene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Ethylene Dibromide	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Dibromomethane	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1-Dichloroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2-Dichloroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1-Dichloroethene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2-Dichloropropane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Ethylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Hexachlorobutadiene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
2-Hexanone	ND		48		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Isopropylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
4-Isopropyltoluene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Methylene Chloride	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Naphthalene	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
N-Propylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Styrene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-22-22.5**

**Lab Sample ID: 720-55397-55**

Date Collected: 02/07/14 10:00

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
<b>Tetrachloroethene</b>	<b>39</b>		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Toluene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Trichloroethene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Trichlorofluoromethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Vinyl acetate	ND		48		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Vinyl chloride	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
Xylenes, Total	ND		9.5		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
2,2-Dichloropropane	ND		4.8		ug/Kg		02/13/14 19:06	02/14/14 02:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	91		45 - 131				02/13/14 19:06	02/14/14 02:49	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 140				02/13/14 19:06	02/14/14 02:49	1
Toluene-d8 (Surr)	94		58 - 140				02/13/14 19:06	02/14/14 02:49	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-23-23.5**

**Lab Sample ID: 720-55397-56**

**Date Collected: 02/07/14 10:04**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Acetone	ND		46		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Benzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Bromobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Chlorobromomethane	ND		18		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Bromoform	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Bromomethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
2-Butanone (MEK)	ND		46		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
n-Butylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Carbon disulfide	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Chlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Chloroethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Chloroform	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Chloromethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Dibromomethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Ethylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
2-Hexanone	ND		46		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Isopropylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Methylene Chloride	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Naphthalene	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
N-Propylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Styrene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-23-23.5**

**Lab Sample ID: 720-55397-56**

Date Collected: 02/07/14 10:04

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
<b>Tetrachloroethene</b>	<b>41</b>		23		ug/Kg		02/13/14 19:06	02/13/14 23:26	1
Toluene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Trichloroethene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Vinyl acetate	ND		46		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Vinyl chloride	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
Xylenes, Total	ND		9.1		ug/Kg		02/12/14 10:00	02/12/14 16:36	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/12/14 10:00	02/12/14 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	90		45 - 131	02/12/14 10:00	02/12/14 16:36	1
4-Bromofluorobenzene	97		45 - 131	02/13/14 19:06	02/13/14 23:26	1
1,2-Dichloroethane-d4 (Surr)	93		60 - 140	02/12/14 10:00	02/12/14 16:36	1
1,2-Dichloroethane-d4 (Surr)	99		60 - 140	02/13/14 19:06	02/13/14 23:26	1
Toluene-d8 (Surr)	95		58 - 140	02/12/14 10:00	02/12/14 16:36	1
Toluene-d8 (Surr)	96		58 - 140	02/13/14 19:06	02/13/14 23:26	1

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-9.5-10**

**Lab Sample ID: 720-55397-57**

**Date Collected: 02/07/14 08:50**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Acetone	ND		46		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Benzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Dichlorobromomethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Bromobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Chlorobromomethane	ND		18		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Bromoform	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Bromomethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
2-Butanone (MEK)	ND		46		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
n-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
sec-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
tert-Butylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Carbon disulfide	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Carbon tetrachloride	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Chlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Chloroethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Chloroform	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Chloromethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
2-Chlorotoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
4-Chlorotoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Chlorodibromomethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,3-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Ethylene Dibromide	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Dibromomethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1-Dichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2-Dichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Ethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Hexachlorobutadiene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
2-Hexanone	ND		46		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Isopropylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
4-Isopropyltoluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Methylene Chloride	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Naphthalene	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
N-Propylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Styrene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB12-9.5-10**

**Lab Sample ID: 720-55397-57**

Date Collected: 02/07/14 08:50

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
<b>Tetrachloroethene</b>	<b>100</b>		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Toluene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Trichloroethene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Trichlorofluoromethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Vinyl acetate	ND		46		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Vinyl chloride	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
Xylenes, Total	ND		9.1		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
2,2-Dichloropropane	ND		4.6		ug/Kg		02/13/14 19:06	02/14/14 03:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	90		45 - 131				02/13/14 19:06	02/14/14 03:18	1
1,2-Dichloroethane-d4 (Surr)	101		60 - 140				02/13/14 19:06	02/14/14 03:18	1
Toluene-d8 (Surr)	92		58 - 140				02/13/14 19:06	02/14/14 03:18	1



# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-10-10.5**

**Lab Sample ID: 720-55397-58**

**Date Collected: 02/06/14 15:45**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
<b>Acetone</b>	<b>110</b>		43		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Benzene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Dichlorobromomethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Bromobenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Chlorobromomethane	ND		17		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Bromoform	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Bromomethane	ND		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
2-Butanone (MEK)	ND		43		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
n-Butylbenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
sec-Butylbenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
tert-Butylbenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Carbon disulfide	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Carbon tetrachloride	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Chlorobenzene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Chloroethane	ND		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Chloroform	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Chloromethane	ND		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
2-Chlorotoluene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
4-Chlorotoluene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Chlorodibromomethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2-Dichlorobenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,3-Dichlorobenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,4-Dichlorobenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,3-Dichloropropane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1-Dichloropropene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2-Dibromo-3-Chloropropane	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Ethylene Dibromide	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Dibromomethane	ND		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Dichlorodifluoromethane	ND		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1-Dichloroethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2-Dichloroethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1-Dichloroethene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2-Dichloropropane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
<b>Ethylbenzene</b>	<b>25</b>		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Hexachlorobutadiene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
2-Hexanone	ND		43		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Isopropylbenzene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
4-Isopropyltoluene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Methylene Chloride	ND		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
<b>Naphthalene</b>	<b>18 *</b>		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
N-Propylbenzene	ND *		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Styrene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1

TestAmerica Pleasanton

# Client Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-10-10.5**

**Lab Sample ID: 720-55397-58**

Date Collected: 02/06/14 15:45

Matrix: Solid

Date Received: 02/07/14 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Tetrachloroethene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Toluene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2,3-Trichlorobenzene	ND	*	4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2,4-Trichlorobenzene	ND	*	4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Trichloroethene	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Trichlorofluoromethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2,3-Trichloropropane	ND	*	4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,2,4-Trimethylbenzene	ND	*	4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
1,3,5-Trimethylbenzene	ND	*	4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Vinyl acetate	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
Vinyl chloride	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
<b>Xylenes, Total</b>	<b>160</b>		8.7		ug/Kg		02/13/14 19:06	02/14/14 03:47	1
2,2-Dichloropropane	ND		4.3		ug/Kg		02/13/14 19:06	02/14/14 03:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	87		45 - 131	02/13/14 19:06	02/14/14 03:47	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	02/13/14 19:06	02/14/14 03:47	1
Toluene-d8 (Surr)	90		58 - 140	02/13/14 19:06	02/14/14 03:47	1

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153226/5**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/10/14 09:36	1
Acetone	ND		50		ug/Kg			02/10/14 09:36	1
Benzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/10/14 09:36	1
Bromobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Chlorobromomethane	ND		20		ug/Kg			02/10/14 09:36	1
Bromoform	ND		5.0		ug/Kg			02/10/14 09:36	1
Bromomethane	ND		10		ug/Kg			02/10/14 09:36	1
2-Butanone (MEK)	ND		50		ug/Kg			02/10/14 09:36	1
n-Butylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Carbon disulfide	ND		5.0		ug/Kg			02/10/14 09:36	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/10/14 09:36	1
Chlorobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Chloroethane	ND		10		ug/Kg			02/10/14 09:36	1
Chloroform	ND		5.0		ug/Kg			02/10/14 09:36	1
Chloromethane	ND		10		ug/Kg			02/10/14 09:36	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/10/14 09:36	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/10/14 09:36	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,1-Dichloropropene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/10/14 09:36	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/10/14 09:36	1
Dibromomethane	ND		10		ug/Kg			02/10/14 09:36	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/10/14 09:36	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/10/14 09:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/10/14 09:36	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/10/14 09:36	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/10/14 09:36	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/10/14 09:36	1
Ethylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Hexachlorobutadiene	ND		5.0		ug/Kg			02/10/14 09:36	1
2-Hexanone	ND		50		ug/Kg			02/10/14 09:36	1
Isopropylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/10/14 09:36	1
Methylene Chloride	ND		10		ug/Kg			02/10/14 09:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/10/14 09:36	1
Naphthalene	ND		10		ug/Kg			02/10/14 09:36	1
N-Propylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Styrene	ND		5.0		ug/Kg			02/10/14 09:36	1

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153226/5**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
Tetrachloroethene	ND		5.0		ug/Kg			02/10/14 09:36	1
Toluene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/10/14 09:36	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/10/14 09:36	1
Vinyl acetate	ND		50		ug/Kg			02/10/14 09:36	1
Vinyl chloride	ND		5.0		ug/Kg			02/10/14 09:36	1
Xylenes, Total	ND		10		ug/Kg			02/10/14 09:36	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/10/14 09:36	1
Trichloroethene	ND		5.0		ug/Kg			02/10/14 09:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		45 - 131		02/10/14 09:36	1
1,2-Dichloroethane-d4 (Surr)	97		60 - 140		02/10/14 09:36	1
Toluene-d8 (Surr)	100		58 - 140		02/10/14 09:36	1

**Lab Sample ID: LCS 720-153226/6**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	50.4		ug/Kg		101	70 - 144
Acetone	250	252		ug/Kg		101	30 - 162
Benzene	50.0	48.4		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	52.7		ug/Kg		105	70 - 131
Bromobenzene	50.0	50.9		ug/Kg		102	70 - 130
Chlorobromomethane	50.0	53.2		ug/Kg		106	70 - 130
Bromoform	50.0	50.5		ug/Kg		101	59 - 158
Bromomethane	50.0	46.4		ug/Kg		93	59 - 132
2-Butanone (MEK)	250	258		ug/Kg		103	53 - 124
n-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 142
sec-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 136
tert-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 130
Carbon disulfide	50.0	38.3		ug/Kg		77	60 - 140
Carbon tetrachloride	50.0	53.6		ug/Kg		107	70 - 138
Chlorobenzene	50.0	51.1		ug/Kg		102	70 - 130
Chloroethane	50.0	45.7		ug/Kg		91	65 - 130
Chloroform	50.0	53.1		ug/Kg		106	77 - 127
Chloromethane	50.0	40.2		ug/Kg		80	55 - 140
2-Chlorotoluene	50.0	52.4		ug/Kg		105	70 - 138

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153226/6**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	51.2		ug/Kg		102	70 - 136
Chlorodibromomethane	50.0	54.0		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 130
1,3-Dichlorobenzene	50.0	53.3		ug/Kg		107	70 - 131
1,4-Dichlorobenzene	50.0	51.7		ug/Kg		103	70 - 130
1,3-Dichloropropane	50.0	50.1		ug/Kg		100	70 - 140
1,1-Dichloropropene	50.0	53.1		ug/Kg		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/Kg		82	60 - 145
Ethylene Dibromide	50.0	50.4		ug/Kg		101	70 - 140
Dibromomethane	50.0	51.3		ug/Kg		103	70 - 139
Dichlorodifluoromethane	50.0	43.7		ug/Kg		87	37 - 158
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 130
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1-Dichloroethene	50.0	47.1		ug/Kg		94	76 - 122
cis-1,2-Dichloroethene	50.0	49.9		ug/Kg		100	70 - 138
trans-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	67 - 130
1,2-Dichloropropane	50.0	48.0		ug/Kg		96	73 - 127
cis-1,3-Dichloropropene	50.0	52.6		ug/Kg		105	68 - 147
trans-1,3-Dichloropropene	50.0	56.1		ug/Kg		112	70 - 136
Ethylbenzene	50.0	49.5		ug/Kg		99	80 - 137
Hexachlorobutadiene	50.0	50.7		ug/Kg		101	70 - 132
2-Hexanone	250	203		ug/Kg		81	44 - 133
Isopropylbenzene	50.0	52.6		ug/Kg		105	88 - 128
4-Isopropyltoluene	50.0	51.7		ug/Kg		103	70 - 133
Methylene Chloride	50.0	46.4		ug/Kg		93	70 - 134
4-Methyl-2-pentanone (MIBK)	250	199		ug/Kg		80	60 - 160
Naphthalene	50.0	44.5		ug/Kg		89	60 - 147
N-Propylbenzene	50.0	51.4		ug/Kg		103	70 - 130
Styrene	50.0	51.5		ug/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.6		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	45.0		ug/Kg		90	70 - 146
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 132
Toluene	50.0	49.0		ug/Kg		98	80 - 128
1,2,3-Trichlorobenzene	50.0	49.2		ug/Kg		98	60 - 140
1,2,4-Trichlorobenzene	50.0	51.0		ug/Kg		102	60 - 140
1,1,1-Trichloroethane	50.0	55.3		ug/Kg		111	70 - 130
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	70 - 130
Trichlorofluoromethane	50.0	56.2		ug/Kg		112	60 - 140
1,2,3-Trichloropropane	50.0	47.5		ug/Kg		95	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.7		ug/Kg		97	60 - 140
1,2,4-Trimethylbenzene	50.0	52.2		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	50.0	52.3		ug/Kg		105	70 - 131
Vinyl acetate	50.0	ND		ug/Kg		90	38 - 176
Vinyl chloride	50.0	44.8		ug/Kg		90	58 - 125
m-Xylene & p-Xylene	100	99.6		ug/Kg		100	70 - 146
o-Xylene	50.0	51.3		ug/Kg		103	70 - 140
2,2-Dichloropropane	50.0	61.1		ug/Kg		122	70 - 162

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153226/6**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	50.4		ug/Kg		101	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: LCSD 720-153226/7**

**Matrix: Solid**

**Analysis Batch: 153226**

**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	50.0	57.4		ug/Kg		115	70 - 144	13	20
Acetone	250	275		ug/Kg		110	30 - 162	9	30
Benzene	50.0	49.3		ug/Kg		99	70 - 130	2	20
Dichlorobromomethane	50.0	55.1		ug/Kg		110	70 - 131	4	20
Bromobenzene	50.0	52.5		ug/Kg		105	70 - 130	3	20
Chlorobromomethane	50.0	57.3		ug/Kg		115	70 - 130	7	20
Bromoform	50.0	56.8		ug/Kg		114	59 - 158	12	20
Bromomethane	50.0	47.1		ug/Kg		94	59 - 132	2	20
2-Butanone (MEK)	250	289		ug/Kg		116	53 - 124	12	20
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142	3	20
sec-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 136	2	20
tert-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 130	2	20
Carbon disulfide	50.0	38.9		ug/Kg		78	60 - 140	2	20
Carbon tetrachloride	50.0	54.5		ug/Kg		109	70 - 138	2	20
Chlorobenzene	50.0	51.7		ug/Kg		103	70 - 130	1	20
Chloroethane	50.0	46.5		ug/Kg		93	65 - 130	2	20
Chloroform	50.0	55.2		ug/Kg		110	77 - 127	4	20
Chloromethane	50.0	41.1		ug/Kg		82	55 - 140	2	20
2-Chlorotoluene	50.0	52.5		ug/Kg		105	70 - 138	0	20
4-Chlorotoluene	50.0	50.7		ug/Kg		101	70 - 136	1	20
Chlorodibromomethane	50.0	59.0		ug/Kg		118	70 - 146	9	20
1,2-Dichlorobenzene	50.0	52.0		ug/Kg		104	70 - 130	3	20
1,3-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 131	0	20
1,4-Dichlorobenzene	50.0	51.5		ug/Kg		103	70 - 130	0	20
1,3-Dichloropropane	50.0	54.3		ug/Kg		109	70 - 140	8	20
1,1-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	48.1		ug/Kg		96	60 - 145	15	20
Ethylene Dibromide	50.0	56.8		ug/Kg		114	70 - 140	12	20
Dibromomethane	50.0	57.4		ug/Kg		115	70 - 139	11	20
Dichlorodifluoromethane	50.0	43.0		ug/Kg		86	37 - 158	2	20
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130	1	20
1,2-Dichloroethane	50.0	55.1		ug/Kg		110	70 - 130	8	20
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	76 - 122	1	20
cis-1,2-Dichloroethane	50.0	51.1		ug/Kg		102	70 - 138	2	20
trans-1,2-Dichloroethane	50.0	50.8		ug/Kg		102	67 - 130	0	20
1,2-Dichloropropane	50.0	49.5		ug/Kg		99	73 - 127	3	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCSD 720-153226/7**

**Matrix: Solid**

**Analysis Batch: 153226**

**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
cis-1,3-Dichloropropene	50.0	55.4		ug/Kg		111	68 - 147	5	20
trans-1,3-Dichloropropene	50.0	61.4		ug/Kg		123	70 - 136	9	20
Ethylbenzene	50.0	49.4		ug/Kg		99	80 - 137	0	20
Hexachlorobutadiene	50.0	48.5		ug/Kg		97	70 - 132	4	20
2-Hexanone	250	261	*	ug/Kg		104	44 - 133	25	20
Isopropylbenzene	50.0	51.8		ug/Kg		104	88 - 128	1	20
4-Isopropyltoluene	50.0	50.8		ug/Kg		102	70 - 133	2	20
Methylene Chloride	50.0	48.2		ug/Kg		96	70 - 134	4	20
4-Methyl-2-pentanone (MIBK)	250	257	*	ug/Kg		103	60 - 160	25	20
Naphthalene	50.0	51.9		ug/Kg		104	60 - 147	15	20
N-Propylbenzene	50.0	50.6		ug/Kg		101	70 - 130	2	20
Styrene	50.0	51.9		ug/Kg		104	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	53.9		ug/Kg		108	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	70 - 146	14	20
Tetrachloroethene	50.0	53.4		ug/Kg		107	70 - 132	0	20
Toluene	50.0	48.9		ug/Kg		98	80 - 128	0	20
1,2,3-Trichlorobenzene	50.0	51.6		ug/Kg		103	60 - 140	5	20
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	60 - 140	1	20
1,1,1-Trichloroethane	50.0	55.6		ug/Kg		111	70 - 130	1	20
1,1,2-Trichloroethane	50.0	55.2		ug/Kg		110	70 - 130	9	20
Trichlorofluoromethane	50.0	57.2		ug/Kg		114	60 - 140	2	20
1,2,3-Trichloropropane	50.0	55.5		ug/Kg		111	70 - 146	16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/Kg		99	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	51.7		ug/Kg		103	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	51.7		ug/Kg		103	70 - 131	1	20
Vinyl acetate	50.0	53.8		ug/Kg		108	38 - 176	17	20
Vinyl chloride	50.0	45.3		ug/Kg		91	58 - 125	1	20
m-Xylene & p-Xylene	100	99.4		ug/Kg		99	70 - 146	0	20
o-Xylene	50.0	51.8		ug/Kg		104	70 - 140	1	20
2,2-Dichloropropane	50.0	60.9		ug/Kg		122	70 - 162	0	20
Trichloroethene	50.0	51.2		ug/Kg		102	70 - 133	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: 720-55397-A-8-A MS**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: 720-55397-A-8-A MS**

**Prep Type: Total/NA**

**Prep Batch: 153249**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Methyl tert-butyl ether	ND		46.9	44.7		ug/Kg		95	69 - 130
Acetone	69		235	261		ug/Kg		82	37 - 150
Benzene	ND		46.9	42.0		ug/Kg		90	70 - 130
Dichlorobromomethane	ND		46.9	45.4		ug/Kg		97	64 - 135
Bromobenzene	ND		46.9	49.5		ug/Kg		106	70 - 130

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: 720-55397-A-8-A MS

Matrix: Solid

Analysis Batch: 153226

Client Sample ID: 720-55397-A-8-A MS

Prep Type: Total/NA

Prep Batch: 153249

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobromomethane	ND		46.9	47.1		ug/Kg		100	65 - 130
Bromoform	ND		46.9	45.2		ug/Kg		96	58 - 132
Bromomethane	ND		46.9	40.9		ug/Kg		87	56 - 130
2-Butanone (MEK)	ND		235	214		ug/Kg		91	41 - 150
n-Butylbenzene	ND		46.9	42.2		ug/Kg		90	60 - 145
sec-Butylbenzene	ND		46.9	46.5		ug/Kg		99	64 - 137
tert-Butylbenzene	ND		46.9	49.8		ug/Kg		106	63 - 134
Carbon disulfide	ND		46.9	32.9		ug/Kg		70	10 - 150
Carbon tetrachloride	ND		46.9	48.8		ug/Kg		104	54 - 130
Chlorobenzene	ND		46.9	44.2		ug/Kg		94	70 - 130
Chloroethane	ND		46.9	41.3		ug/Kg		88	61 - 130
Chloroform	ND		46.9	47.8		ug/Kg		102	67 - 130
Chloromethane	ND		46.9	35.8		ug/Kg		76	50 - 131
2-Chlorotoluene	ND		46.9	50.2		ug/Kg		107	70 - 130
4-Chlorotoluene	ND		46.9	47.8		ug/Kg		102	70 - 130
Chlorodibromomethane	ND		46.9	46.7		ug/Kg		99	60 - 141
1,2-Dichlorobenzene	ND		46.9	43.7		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	ND		46.9	45.3		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	ND		46.9	44.6		ug/Kg		95	70 - 130
1,3-Dichloropropane	ND		46.9	43.0		ug/Kg		92	70 - 130
1,1-Dichloropropene	ND		46.9	46.6		ug/Kg		99	67 - 130
1,2-Dibromo-3-Chloropropane	ND		46.9	42.1		ug/Kg		90	57 - 130
Ethylene Dibromide	ND		46.9	44.1		ug/Kg		94	66 - 135
Dibromomethane	ND		46.9	45.3		ug/Kg		96	65 - 131
Dichlorodifluoromethane	ND		46.9	38.4		ug/Kg		82	38 - 130
1,1-Dichloroethane	ND		46.9	44.2		ug/Kg		94	67 - 130
1,2-Dichloroethane	ND		46.9	45.5		ug/Kg		97	70 - 130
1,1-Dichloroethene	ND		46.9	41.9		ug/Kg		89	64 - 130
cis-1,2-Dichloroethene	5.0		46.9	49.2		ug/Kg		94	68 - 131
trans-1,2-Dichloroethene	ND		46.9	43.6		ug/Kg		93	70 - 130
1,2-Dichloropropane	ND		46.9	41.2		ug/Kg		88	65 - 133
cis-1,3-Dichloropropene	ND		46.9	44.6		ug/Kg		95	46 - 139
trans-1,3-Dichloropropene	ND		46.9	48.5		ug/Kg		103	55 - 131
Ethylbenzene	ND		46.9	44.1		ug/Kg		92	65 - 130
Hexachlorobutadiene	ND		46.9	29.7		ug/Kg		63	58 - 132
2-Hexanone	ND		235	179		ug/Kg		76	44 - 150
Isopropylbenzene	ND		46.9	45.0		ug/Kg		96	65 - 130
4-Isopropyltoluene	ND		46.9	45.9		ug/Kg		98	69 - 134
Methylene Chloride	ND		46.9	39.9		ug/Kg		85	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		235	186		ug/Kg		79	51 - 140
Naphthalene	ND		46.9	31.3		ug/Kg		67	45 - 146
N-Propylbenzene	ND		46.9	48.9		ug/Kg		104	70 - 130
Styrene	ND		46.9	42.5		ug/Kg		91	58 - 135
1,1,1,2-Tetrachloroethane	ND		46.9	47.8		ug/Kg		102	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		46.9	46.9		ug/Kg		100	70 - 131
Tetrachloroethene	190		46.9	108	4	ug/Kg		-185	67 - 130
Toluene	ND		46.9	44.0		ug/Kg		94	70 - 130
1,2,3-Trichlorobenzene	ND		46.9	27.6		ug/Kg		59	58 - 138

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-A-8-A MS**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: 720-55397-A-8-A MS**

**Prep Type: Total/NA**

**Prep Batch: 153249**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	ND		46.9	29.8		ug/Kg		63	49 - 144
1,1,1-Trichloroethane	ND		46.9	49.7		ug/Kg		106	57 - 133
1,1,2-Trichloroethane	ND		46.9	43.8		ug/Kg		93	68 - 132
Trichlorofluoromethane	ND		46.9	48.9		ug/Kg		104	61 - 130
1,2,3-Trichloropropane	ND		46.9	51.7		ug/Kg		110	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		46.9	44.1		ug/Kg		94	52 - 130
1,2,4-Trimethylbenzene	ND		46.9	48.2		ug/Kg		103	64 - 140
1,3,5-Trimethylbenzene	ND		46.9	49.0		ug/Kg		104	67 - 134
Vinyl acetate	ND		46.9	ND	F1	ug/Kg		32	52 - 150
Vinyl chloride	ND		46.9	40.5		ug/Kg		86	62 - 130
m-Xylene & p-Xylene	5.0		93.8	87.9		ug/Kg		88	70 - 130
o-Xylene	ND		46.9	45.7		ug/Kg		93	68 - 130
2,2-Dichloropropane	ND		46.9	54.8		ug/Kg		117	63 - 130
Trichloroethene	9.2		46.9	52.2		ug/Kg		92	66 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: 720-55397-A-8-B MSD**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: 720-55397-A-8-B MSD**

**Prep Type: Total/NA**

**Prep Batch: 153249**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Methyl tert-butyl ether	ND		46.3	46.9		ug/Kg		101	69 - 130	5	20
Acetone	69		231	282		ug/Kg		92	37 - 150	8	20
Benzene	ND		46.3	45.2		ug/Kg		98	70 - 130	7	20
Dichlorobromomethane	ND		46.3	49.5		ug/Kg		107	64 - 135	9	20
Bromobenzene	ND		46.3	53.6		ug/Kg		116	70 - 130	8	20
Chlorobromomethane	ND		46.3	50.1		ug/Kg		108	65 - 130	6	20
Bromoform	ND		46.3	49.1		ug/Kg		106	58 - 132	8	20
Bromomethane	ND		46.3	43.8		ug/Kg		95	56 - 130	7	20
2-Butanone (MEK)	ND		231	227		ug/Kg		98	41 - 150	6	20
n-Butylbenzene	ND		46.3	44.6		ug/Kg		96	60 - 145	5	20
sec-Butylbenzene	ND		46.3	48.4		ug/Kg		105	64 - 137	4	20
tert-Butylbenzene	ND		46.3	51.7		ug/Kg		112	63 - 134	4	20
Carbon disulfide	ND		46.3	35.5		ug/Kg		77	10 - 150	8	20
Carbon tetrachloride	ND		46.3	51.4		ug/Kg		111	54 - 130	5	20
Chlorobenzene	ND		46.3	47.5		ug/Kg		103	70 - 130	7	20
Chloroethane	ND		46.3	43.1		ug/Kg		93	61 - 130	4	20
Chloroform	ND		46.3	50.4		ug/Kg		109	67 - 130	5	20
Chloromethane	ND		46.3	38.0		ug/Kg		82	50 - 131	6	20
2-Chlorotoluene	ND		46.3	53.2		ug/Kg		115	70 - 130	6	20
4-Chlorotoluene	ND		46.3	51.5		ug/Kg		111	70 - 130	7	20
Chlorodibromomethane	ND		46.3	50.8		ug/Kg		110	60 - 141	8	20
1,2-Dichlorobenzene	ND		46.3	46.5		ug/Kg		100	70 - 130	6	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: 720-55397-A-8-B MSD

Matrix: Solid

Analysis Batch: 153226

Client Sample ID: 720-55397-A-8-B MSD

Prep Type: Total/NA

Prep Batch: 153249

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,3-Dichlorobenzene	ND		46.3	48.5		ug/Kg		105	70 - 130	7	20
1,4-Dichlorobenzene	ND		46.3	48.0		ug/Kg		104	70 - 130	7	20
1,3-Dichloropropane	ND		46.3	44.6		ug/Kg		96	70 - 130	4	20
1,1-Dichloropropene	ND		46.3	50.0		ug/Kg		108	67 - 130	7	20
1,2-Dibromo-3-Chloropropane	ND		46.3	44.4		ug/Kg		96	57 - 130	5	20
Ethylene Dibromide	ND		46.3	46.1		ug/Kg		100	66 - 135	4	20
Dibromomethane	ND		46.3	48.2		ug/Kg		104	65 - 131	6	20
Dichlorodifluoromethane	ND		46.3	39.4		ug/Kg		85	38 - 130	3	20
1,1-Dichloroethane	ND		46.3	46.5		ug/Kg		101	67 - 130	5	20
1,2-Dichloroethane	ND		46.3	48.7		ug/Kg		105	70 - 130	7	20
1,1-Dichloroethene	ND		46.3	44.1		ug/Kg		95	64 - 130	5	20
cis-1,2-Dichloroethene	5.0		46.3	51.7		ug/Kg		101	68 - 131	5	20
trans-1,2-Dichloroethene	ND		46.3	46.8		ug/Kg		101	70 - 130	7	20
1,2-Dichloropropane	ND		46.3	44.0		ug/Kg		95	65 - 133	7	20
cis-1,3-Dichloropropene	ND		46.3	48.3		ug/Kg		104	46 - 139	8	20
trans-1,3-Dichloropropene	ND		46.3	51.8		ug/Kg		112	55 - 131	7	20
Ethylbenzene	ND		46.3	46.7		ug/Kg		98	65 - 130	6	20
Hexachlorobutadiene	ND		46.3	30.3		ug/Kg		65	58 - 132	2	20
2-Hexanone	ND		231	191		ug/Kg		82	44 - 150	6	20
Isopropylbenzene	ND		46.3	47.3		ug/Kg		102	65 - 130	5	20
4-Isopropyltoluene	ND		46.3	48.4		ug/Kg		104	69 - 134	5	20
Methylene Chloride	ND		46.3	43.0		ug/Kg		93	63 - 130	8	20
4-Methyl-2-pentanone (MIBK)	ND		231	195		ug/Kg		84	51 - 140	5	20
Naphthalene	ND		46.3	34.1		ug/Kg		74	45 - 146	8	20
N-Propylbenzene	ND		46.3	51.9		ug/Kg		112	70 - 130	6	20
Styrene	ND		46.3	45.6		ug/Kg		99	58 - 135	7	20
1,1,1,2-Tetrachloroethane	ND		46.3	51.1		ug/Kg		110	64 - 133	7	20
1,1,1,2,2-Tetrachloroethane	ND		46.3	50.4		ug/Kg		109	70 - 131	7	20
Tetrachloroethene	190		46.3	112	4	ug/Kg		-179	67 - 130	3	20
Toluene	ND		46.3	46.3		ug/Kg		100	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		46.3	29.5		ug/Kg		64	58 - 138	7	20
1,2,4-Trichlorobenzene	ND		46.3	30.9		ug/Kg		67	49 - 144	4	20
1,1,1-Trichloroethane	ND		46.3	53.1		ug/Kg		115	57 - 133	7	20
1,1,2-Trichloroethane	ND		46.3	46.9		ug/Kg		101	68 - 132	7	20
Trichlorofluoromethane	ND		46.3	52.1		ug/Kg		113	61 - 130	6	20
1,2,3-Trichloropropane	ND		46.3	55.4		ug/Kg		120	62 - 150	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		46.3	47.0		ug/Kg		101	52 - 130	6	20
1,2,4-Trimethylbenzene	ND		46.3	51.4		ug/Kg		111	64 - 140	6	20
1,3,5-Trimethylbenzene	ND		46.3	51.7		ug/Kg		112	67 - 134	5	20
Vinyl acetate	ND		46.3	ND	F1	ug/Kg		37	52 - 150	12	20
Vinyl chloride	ND		46.3	42.9		ug/Kg		93	62 - 130	6	20
m-Xylene & p-Xylene	5.0		92.6	93.4		ug/Kg		95	70 - 130	6	20
o-Xylene	ND		46.3	48.6		ug/Kg		101	68 - 130	6	20
2,2-Dichloropropane	ND		46.3	56.7		ug/Kg		123	63 - 130	3	20
Trichloroethene	9.2		46.3	54.1		ug/Kg		97	66 - 130	4	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-A-8-B MSD**

**Matrix: Solid**

**Analysis Batch: 153226**

**Client Sample ID: 720-55397-A-8-B MSD**

**Prep Type: Total/NA**

**Prep Batch: 153249**

<i>Surrogate</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: MB 720-153296/4**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/11/14 09:37	1
Acetone	ND		50		ug/Kg			02/11/14 09:37	1
Benzene	ND		5.0		ug/Kg			02/11/14 09:37	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/11/14 09:37	1
Bromobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
Chlorobromomethane	ND		20		ug/Kg			02/11/14 09:37	1
Bromoform	ND		5.0		ug/Kg			02/11/14 09:37	1
Bromomethane	ND		10		ug/Kg			02/11/14 09:37	1
2-Butanone (MEK)	ND		50		ug/Kg			02/11/14 09:37	1
n-Butylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
Carbon disulfide	ND		5.0		ug/Kg			02/11/14 09:37	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/11/14 09:37	1
Chlorobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
Chloroethane	ND		10		ug/Kg			02/11/14 09:37	1
Chloroform	ND		5.0		ug/Kg			02/11/14 09:37	1
Chloromethane	ND		10		ug/Kg			02/11/14 09:37	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 09:37	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 09:37	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1-Dichloropropene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/11/14 09:37	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/11/14 09:37	1
Dibromomethane	ND		10		ug/Kg			02/11/14 09:37	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/11/14 09:37	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/11/14 09:37	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 09:37	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 09:37	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 09:37	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 09:37	1
Ethylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153296/4**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	ND		5.0		ug/Kg			02/11/14 09:37	1
2-Hexanone	ND		50		ug/Kg			02/11/14 09:37	1
Isopropylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/11/14 09:37	1
Methylene Chloride	ND		10		ug/Kg			02/11/14 09:37	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/11/14 09:37	1
Naphthalene	ND		10		ug/Kg			02/11/14 09:37	1
N-Propylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
Styrene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
Tetrachloroethene	ND		5.0		ug/Kg			02/11/14 09:37	1
Toluene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/11/14 09:37	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 09:37	1
Vinyl acetate	ND		50		ug/Kg			02/11/14 09:37	1
Vinyl chloride	ND		5.0		ug/Kg			02/11/14 09:37	1
Xylenes, Total	ND		10		ug/Kg			02/11/14 09:37	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 09:37	1
Trichloroethene	ND		5.0		ug/Kg			02/11/14 09:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	91		45 - 131		02/11/14 09:37	1
1,2-Dichloroethane-d4 (Surr)	80		60 - 140		02/11/14 09:37	1
Toluene-d8 (Surr)	97		58 - 140		02/11/14 09:37	1

**Lab Sample ID: LCS 720-153296/5**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	46.4		ug/Kg		93	70 - 144
Acetone	250	231		ug/Kg		93	30 - 162
Benzene	50.0	45.7		ug/Kg		91	70 - 130
Dichlorobromomethane	50.0	46.7		ug/Kg		93	70 - 131
Bromobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chlorobromomethane	50.0	50.4		ug/Kg		101	70 - 130
Bromoform	50.0	56.3		ug/Kg		113	59 - 158
Bromomethane	50.0	46.2		ug/Kg		92	59 - 132
2-Butanone (MEK)	250	220		ug/Kg		88	53 - 124
n-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 142

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153296/5**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 130
Carbon disulfide	50.0	35.7		ug/Kg		71	60 - 140
Carbon tetrachloride	50.0	46.8		ug/Kg		94	70 - 138
Chlorobenzene	50.0	50.2		ug/Kg		100	70 - 130
Chloroethane	50.0	43.6		ug/Kg		87	65 - 130
Chloroform	50.0	46.2		ug/Kg		92	77 - 127
Chloromethane	50.0	39.9		ug/Kg		80	55 - 140
2-Chlorotoluene	50.0	47.8		ug/Kg		96	70 - 138
4-Chlorotoluene	50.0	46.3		ug/Kg		93	70 - 136
Chlorodibromomethane	50.0	55.0		ug/Kg		110	70 - 146
1,2-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 130
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 131
1,4-Dichlorobenzene	50.0	53.7		ug/Kg		107	70 - 130
1,3-Dichloropropane	50.0	45.9		ug/Kg		92	70 - 140
1,1-Dichloropropene	50.0	45.9		ug/Kg		92	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.9		ug/Kg		102	60 - 145
Ethylene Dibromide	50.0	50.7		ug/Kg		101	70 - 140
Dibromomethane	50.0	49.5		ug/Kg		99	70 - 139
Dichlorodifluoromethane	50.0	39.3		ug/Kg		79	37 - 158
1,1-Dichloroethane	50.0	44.2		ug/Kg		88	70 - 130
1,2-Dichloroethane	50.0	40.4		ug/Kg		81	70 - 130
1,1-Dichloroethene	50.0	47.8		ug/Kg		96	76 - 122
cis-1,2-Dichloroethene	50.0	42.9		ug/Kg		86	70 - 138
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	67 - 130
1,2-Dichloropropane	50.0	43.8		ug/Kg		88	73 - 127
cis-1,3-Dichloropropene	50.0	46.8		ug/Kg		94	68 - 147
trans-1,3-Dichloropropene	50.0	45.3		ug/Kg		91	70 - 136
Ethylbenzene	50.0	48.9		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	47.5		ug/Kg		95	70 - 132
2-Hexanone	250	211		ug/Kg		84	44 - 133
Isopropylbenzene	50.0	50.6		ug/Kg		101	88 - 128
4-Isopropyltoluene	50.0	53.0		ug/Kg		106	70 - 133
Methylene Chloride	50.0	45.1		ug/Kg		90	70 - 134
4-Methyl-2-pentanone (MIBK)	250	215		ug/Kg		86	60 - 160
Naphthalene	50.0	52.5		ug/Kg		105	60 - 147
N-Propylbenzene	50.0	47.8		ug/Kg		96	70 - 130
Styrene	50.0	49.1		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	46.0		ug/Kg		92	70 - 146
Tetrachloroethene	50.0	54.0		ug/Kg		108	70 - 132
Toluene	50.0	46.5		ug/Kg		93	80 - 128
1,2,3-Trichlorobenzene	50.0	53.3		ug/Kg		107	60 - 140
1,2,4-Trichlorobenzene	50.0	54.5		ug/Kg		109	60 - 140
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	70 - 130
1,1,2-Trichloroethane	50.0	48.9		ug/Kg		98	70 - 130
Trichlorofluoromethane	50.0	50.7		ug/Kg		101	60 - 140
1,2,3-Trichloropropane	50.0	44.9		ug/Kg		90	70 - 146

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153296/5**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/Kg		102	60 - 140
1,2,4-Trimethylbenzene	50.0	49.0		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	48.7		ug/Kg		97	70 - 131
Vinyl acetate	50.0	44.5	J	ug/Kg		89	38 - 176
Vinyl chloride	50.0	42.6		ug/Kg		85	58 - 125
m-Xylene & p-Xylene	100	98.2		ug/Kg		98	70 - 146
o-Xylene	50.0	50.7		ug/Kg		101	70 - 140
2,2-Dichloropropane	50.0	45.9		ug/Kg		92	70 - 162
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	81		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: LCSD 720-153296/6**

**Matrix: Solid**

**Analysis Batch: 153296**

**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	50.0	47.7		ug/Kg		95	70 - 144	3	20
Acetone	250	238		ug/Kg		95	30 - 162	3	30
Benzene	50.0	44.6		ug/Kg		89	70 - 130	2	20
Dichlorobromomethane	50.0	47.3		ug/Kg		95	70 - 131	1	20
Bromobenzene	50.0	48.0		ug/Kg		96	70 - 130	4	20
Chlorobromomethane	50.0	50.1		ug/Kg		100	70 - 130	1	20
Bromoform	50.0	56.9		ug/Kg		114	59 - 158	1	20
Bromomethane	50.0	42.6		ug/Kg		85	59 - 132	8	20
2-Butanone (MEK)	250	240		ug/Kg		96	53 - 124	9	20
n-Butylbenzene	50.0	46.8		ug/Kg		94	70 - 142	7	20
sec-Butylbenzene	50.0	45.8		ug/Kg		92	70 - 136	6	20
tert-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 130	6	20
Carbon disulfide	50.0	34.0		ug/Kg		68	60 - 140	5	20
Carbon tetrachloride	50.0	46.8		ug/Kg		94	70 - 138	0	20
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 130	2	20
Chloroethane	50.0	40.9		ug/Kg		82	65 - 130	6	20
Chloroform	50.0	45.3		ug/Kg		91	77 - 127	2	20
Chloromethane	50.0	37.3		ug/Kg		75	55 - 140	7	20
2-Chlorotoluene	50.0	45.5		ug/Kg		91	70 - 138	5	20
4-Chlorotoluene	50.0	44.4		ug/Kg		89	70 - 136	4	20
Chlorodibromomethane	50.0	55.4		ug/Kg		111	70 - 146	1	20
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	70 - 130	5	20
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131	6	20
1,4-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 130	5	20
1,3-Dichloropropane	50.0	46.3		ug/Kg		93	70 - 140	1	20
1,1-Dichloropropene	50.0	44.9		ug/Kg		90	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	52.2		ug/Kg		104	60 - 145	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: LCSD 720-153296/6

Matrix: Solid

Analysis Batch: 153296

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Ethylene Dibromide	50.0	51.2		ug/Kg		102	70 - 140	1	20
Dibromomethane	50.0	49.6		ug/Kg		99	70 - 139	0	20
Dichlorodifluoromethane	50.0	35.7		ug/Kg		71	37 - 158	10	20
1,1-Dichloroethane	50.0	42.8		ug/Kg		86	70 - 130	3	20
1,2-Dichloroethane	50.0	40.0		ug/Kg		80	70 - 130	1	20
1,1-Dichloroethene	50.0	46.8		ug/Kg		94	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	41.8		ug/Kg		84	70 - 138	3	20
trans-1,2-Dichloroethene	50.0	46.5		ug/Kg		93	67 - 130	2	20
1,2-Dichloropropane	50.0	43.1		ug/Kg		86	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	46.5		ug/Kg		93	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	45.5		ug/Kg		91	70 - 136	0	20
Ethylbenzene	50.0	47.9		ug/Kg		96	80 - 137	2	20
Hexachlorobutadiene	50.0	45.0		ug/Kg		90	70 - 132	5	20
2-Hexanone	250	225		ug/Kg		90	44 - 133	7	20
Isopropylbenzene	50.0	49.7		ug/Kg		99	88 - 128	2	20
4-Isopropyltoluene	50.0	49.9		ug/Kg		100	70 - 133	6	20
Methylene Chloride	50.0	43.7		ug/Kg		87	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)	250	227		ug/Kg		91	60 - 160	6	20
Naphthalene	50.0	52.9		ug/Kg		106	60 - 147	1	20
N-Propylbenzene	50.0	45.5		ug/Kg		91	70 - 130	5	20
Styrene	50.0	48.2		ug/Kg		96	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/Kg		100	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	50.0	45.5		ug/Kg		91	70 - 146	1	20
Tetrachloroethene	50.0	52.5		ug/Kg		105	70 - 132	3	20
Toluene	50.0	45.2		ug/Kg		90	80 - 128	3	20
1,2,3-Trichlorobenzene	50.0	51.1		ug/Kg		102	60 - 140	4	20
1,2,4-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 140	6	20
1,1,1-Trichloroethane	50.0	46.7		ug/Kg		93	70 - 130	2	20
1,1,1,2-Trichloroethane	50.0	48.9		ug/Kg		98	70 - 130	0	20
Trichlorofluoromethane	50.0	48.2		ug/Kg		96	60 - 140	5	20
1,2,3-Trichloropropane	50.0	44.5		ug/Kg		89	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/Kg		99	60 - 140	3	20
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 130	5	20
1,3,5-Trimethylbenzene	50.0	46.3		ug/Kg		93	70 - 131	5	20
Vinyl acetate	50.0	45.8	J	ug/Kg		92	38 - 176	3	20
Vinyl chloride	50.0	38.4		ug/Kg		77	58 - 125	10	20
m-Xylene & p-Xylene	100	95.6		ug/Kg		96	70 - 146	3	20
o-Xylene	50.0	48.8		ug/Kg		98	70 - 140	4	20
2,2-Dichloropropane	50.0	44.3		ug/Kg		89	70 - 162	3	20
Trichloroethene	50.0	50.5		ug/Kg		101	70 - 133	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	81		60 - 140
Toluene-d8 (Surr)	99		58 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153298/4**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/11/14 10:02	1
Acetone	ND		50		ug/Kg			02/11/14 10:02	1
Benzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/11/14 10:02	1
Bromobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Chlorobromomethane	ND		20		ug/Kg			02/11/14 10:02	1
Bromoform	ND		5.0		ug/Kg			02/11/14 10:02	1
Bromomethane	ND		10		ug/Kg			02/11/14 10:02	1
2-Butanone (MEK)	ND		50		ug/Kg			02/11/14 10:02	1
n-Butylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Carbon disulfide	ND		5.0		ug/Kg			02/11/14 10:02	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/11/14 10:02	1
Chlorobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Chloroethane	ND		10		ug/Kg			02/11/14 10:02	1
Chloroform	ND		5.0		ug/Kg			02/11/14 10:02	1
Chloromethane	ND		10		ug/Kg			02/11/14 10:02	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 10:02	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 10:02	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,1-Dichloropropene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/11/14 10:02	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/11/14 10:02	1
Dibromomethane	ND		10		ug/Kg			02/11/14 10:02	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/11/14 10:02	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/11/14 10:02	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 10:02	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 10:02	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 10:02	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 10:02	1
Ethylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Hexachlorobutadiene	ND		5.0		ug/Kg			02/11/14 10:02	1
2-Hexanone	ND		50		ug/Kg			02/11/14 10:02	1
Isopropylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/11/14 10:02	1
Methylene Chloride	ND		10		ug/Kg			02/11/14 10:02	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/11/14 10:02	1
Naphthalene	ND		10		ug/Kg			02/11/14 10:02	1
N-Propylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Styrene	ND		5.0		ug/Kg			02/11/14 10:02	1

TestAmerica Pleasanton



# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153298/4**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
Tetrachloroethene	ND		5.0		ug/Kg			02/11/14 10:02	1
Toluene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/11/14 10:02	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 10:02	1
Vinyl acetate	ND		50		ug/Kg			02/11/14 10:02	1
Vinyl chloride	ND		5.0		ug/Kg			02/11/14 10:02	1
Xylenes, Total	ND		10		ug/Kg			02/11/14 10:02	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 10:02	1
Trichloroethene	ND		5.0		ug/Kg			02/11/14 10:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131		02/11/14 10:02	1
1,2-Dichloroethane-d4 (Surr)	116		60 - 140		02/11/14 10:02	1
Toluene-d8 (Surr)	101		58 - 140		02/11/14 10:02	1

**Lab Sample ID: LCS 720-153298/5**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	44.8		ug/Kg		90	70 - 144
Acetone	250	281		ug/Kg		112	30 - 162
Benzene	50.0	47.4		ug/Kg		95	70 - 130
Dichlorobromomethane	50.0	46.7		ug/Kg		93	70 - 131
Bromobenzene	50.0	48.3		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	44.2		ug/Kg		88	70 - 130
Bromoform	50.0	43.8		ug/Kg		88	59 - 158
Bromomethane	50.0	42.1		ug/Kg		84	59 - 132
2-Butanone (MEK)	250	260		ug/Kg		104	53 - 124
n-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 142
sec-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 136
tert-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 130
Carbon disulfide	50.0	36.4		ug/Kg		73	60 - 140
Carbon tetrachloride	50.0	55.7		ug/Kg		111	70 - 138
Chlorobenzene	50.0	49.9		ug/Kg		100	70 - 130
Chloroethane	50.0	44.4		ug/Kg		89	65 - 130
Chloroform	50.0	49.0		ug/Kg		98	77 - 127
Chloromethane	50.0	48.3		ug/Kg		97	55 - 140
2-Chlorotoluene	50.0	52.3		ug/Kg		105	70 - 138

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153298/5**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 136
Chlorodibromomethane	50.0	46.6		ug/Kg		93	70 - 146
1,2-Dichlorobenzene	50.0	48.3		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	50.0	50.6		ug/Kg		101	70 - 131
1,4-Dichlorobenzene	50.0	50.2		ug/Kg		100	70 - 130
1,3-Dichloropropane	50.0	45.4		ug/Kg		91	70 - 140
1,1-Dichloropropene	50.0	52.9		ug/Kg		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.0		ug/Kg		106	60 - 145
Ethylene Dibromide	50.0	46.4		ug/Kg		93	70 - 140
Dibromomethane	50.0	45.0		ug/Kg		90	70 - 139
Dichlorodifluoromethane	50.0	41.4		ug/Kg		83	37 - 158
1,1-Dichloroethane	50.0	51.4		ug/Kg		103	70 - 130
1,2-Dichloroethane	50.0	46.5		ug/Kg		93	70 - 130
1,1-Dichloroethene	50.0	46.0		ug/Kg		92	76 - 122
cis-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 138
trans-1,2-Dichloroethene	50.0	48.5		ug/Kg		97	67 - 130
1,2-Dichloropropane	50.0	48.1		ug/Kg		96	73 - 127
cis-1,3-Dichloropropene	50.0	47.4		ug/Kg		95	68 - 147
trans-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	70 - 136
Ethylbenzene	50.0	51.7		ug/Kg		103	80 - 137
Hexachlorobutadiene	50.0	50.5		ug/Kg		101	70 - 132
2-Hexanone	250	286		ug/Kg		114	44 - 133
Isopropylbenzene	50.0	54.1		ug/Kg		108	88 - 128
4-Isopropyltoluene	50.0	53.4		ug/Kg		107	70 - 133
Methylene Chloride	50.0	41.9		ug/Kg		84	70 - 134
4-Methyl-2-pentanone (MIBK)	250	280		ug/Kg		112	60 - 160
Naphthalene	50.0	50.7		ug/Kg		101	60 - 147
N-Propylbenzene	50.0	53.8		ug/Kg		108	70 - 130
Styrene	50.0	51.1		ug/Kg		102	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	70 - 130
1,1,1,2-Tetrachloroethane	50.0	48.6		ug/Kg		97	70 - 146
Tetrachloroethene	50.0	51.1		ug/Kg		102	70 - 132
Toluene	50.0	49.8		ug/Kg		100	80 - 128
1,2,3-Trichlorobenzene	50.0	47.5		ug/Kg		95	60 - 140
1,2,4-Trichlorobenzene	50.0	50.7		ug/Kg		101	60 - 140
1,1,1-Trichloroethane	50.0	54.3		ug/Kg		109	70 - 130
1,1,2-Trichloroethane	50.0	46.6		ug/Kg		93	70 - 130
Trichlorofluoromethane	50.0	51.1		ug/Kg		102	60 - 140
1,2,3-Trichloropropane	50.0	49.4		ug/Kg		99	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.5		ug/Kg		95	60 - 140
1,2,4-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	54.3		ug/Kg		109	70 - 131
Vinyl acetate	50.0	74.0		ug/Kg		148	38 - 176
Vinyl chloride	50.0	46.3		ug/Kg		93	58 - 125
m-Xylene & p-Xylene	100	98.8		ug/Kg		99	70 - 146
o-Xylene	50.0	52.6		ug/Kg		105	70 - 140
2,2-Dichloropropane	50.0	58.6		ug/Kg		117	70 - 162

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153298/5**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	48.6		ug/Kg		97	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	95		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCSD 720-153298/6**

**Matrix: Solid**

**Analysis Batch: 153298**

**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	50.0	42.7		ug/Kg		85	70 - 144	5	20
Acetone	250	246		ug/Kg		98	30 - 162	13	30
Benzene	50.0	46.2		ug/Kg		92	70 - 130	3	20
Dichlorobromomethane	50.0	47.4		ug/Kg		95	70 - 131	1	20
Bromobenzene	50.0	49.6		ug/Kg		99	70 - 130	3	20
Chlorobromomethane	50.0	43.1		ug/Kg		86	70 - 130	3	20
Bromoform	50.0	46.2		ug/Kg		92	59 - 158	5	20
Bromomethane	50.0	43.2		ug/Kg		86	59 - 132	3	20
2-Butanone (MEK)	250	221		ug/Kg		89	53 - 124	16	20
n-Butylbenzene	50.0	58.2		ug/Kg		116	70 - 142	7	20
sec-Butylbenzene	50.0	55.5		ug/Kg		111	70 - 136	4	20
tert-Butylbenzene	50.0	56.3		ug/Kg		113	70 - 130	4	20
Carbon disulfide	50.0	36.9		ug/Kg		74	60 - 140	1	20
Carbon tetrachloride	50.0	54.3		ug/Kg		109	70 - 138	3	20
Chlorobenzene	50.0	50.6		ug/Kg		101	70 - 130	1	20
Chloroethane	50.0	44.8		ug/Kg		90	65 - 130	1	20
Chloroform	50.0	47.8		ug/Kg		96	77 - 127	3	20
Chloromethane	50.0	50.3		ug/Kg		101	55 - 140	4	20
2-Chlorotoluene	50.0	53.8		ug/Kg		108	70 - 138	3	20
4-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 136	5	20
Chlorodibromomethane	50.0	47.8		ug/Kg		96	70 - 146	2	20
1,2-Dichlorobenzene	50.0	53.2		ug/Kg		106	70 - 130	10	20
1,3-Dichlorobenzene	50.0	54.3		ug/Kg		109	70 - 131	7	20
1,4-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 130	7	20
1,3-Dichloropropane	50.0	45.5		ug/Kg		91	70 - 140	0	20
1,1-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	50.0	55.1		ug/Kg		110	60 - 145	4	20
Ethylene Dibromide	50.0	45.3		ug/Kg		91	70 - 140	2	20
Dibromomethane	50.0	44.0		ug/Kg		88	70 - 139	2	20
Dichlorodifluoromethane	50.0	39.5		ug/Kg		79	37 - 158	5	20
1,1-Dichloroethane	50.0	49.8		ug/Kg		100	70 - 130	3	20
1,2-Dichloroethane	50.0	45.5		ug/Kg		91	70 - 130	2	20
1,1-Dichloroethane	50.0	45.8		ug/Kg		92	76 - 122	0	20
cis-1,2-Dichloroethane	50.0	49.3		ug/Kg		99	70 - 138	2	20
trans-1,2-Dichloroethane	50.0	47.2		ug/Kg		94	67 - 130	3	20
1,2-Dichloropropane	50.0	47.0		ug/Kg		94	73 - 127	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCSD 720-153298/6**

**Matrix: Solid**

**Analysis Batch: 153298**

**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		
cis-1,3-Dichloropropene	50.0	47.1		ug/Kg		94	68 - 147	1	20	
trans-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	70 - 136	0	20	
Ethylbenzene	50.0	51.2		ug/Kg		102	80 - 137	1	20	
Hexachlorobutadiene	50.0	56.0		ug/Kg		112	70 - 132	10	20	
2-Hexanone	250	247		ug/Kg		99	44 - 133	14	20	
Isopropylbenzene	50.0	54.8		ug/Kg		110	88 - 128	1	20	
4-Isopropyltoluene	50.0	56.7		ug/Kg		113	70 - 133	6	20	
Methylene Chloride	50.0	43.1		ug/Kg		86	70 - 134	3	20	
4-Methyl-2-pentanone (MIBK)	250	249		ug/Kg		99	60 - 160	12	20	
Naphthalene	50.0	55.3		ug/Kg		111	60 - 147	9	20	
N-Propylbenzene	50.0	54.0		ug/Kg		108	70 - 130	0	20	
Styrene	50.0	52.4		ug/Kg		105	70 - 130	2	20	
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 130	2	20	
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/Kg		101	70 - 146	4	20	
Tetrachloroethene	50.0	49.9		ug/Kg		100	70 - 132	2	20	
Toluene	50.0	48.5		ug/Kg		97	80 - 128	3	20	
1,2,3-Trichlorobenzene	50.0	53.1		ug/Kg		106	60 - 140	11	20	
1,2,4-Trichlorobenzene	50.0	56.3		ug/Kg		113	60 - 140	11	20	
1,1,1-Trichloroethane	50.0	53.3		ug/Kg		107	70 - 130	2	20	
1,1,2-Trichloroethane	50.0	47.8		ug/Kg		96	70 - 130	2	20	
Trichlorofluoromethane	50.0	50.4		ug/Kg		101	60 - 140	1	20	
1,2,3-Trichloropropane	50.0	50.1		ug/Kg		100	70 - 146	1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.1		ug/Kg		96	60 - 140	1	20	
1,2,4-Trimethylbenzene	50.0	55.6		ug/Kg		111	70 - 130	5	20	
1,3,5-Trimethylbenzene	50.0	55.6		ug/Kg		111	70 - 131	2	20	
Vinyl acetate	50.0	70.6		ug/Kg		141	38 - 176	5	20	
Vinyl chloride	50.0	45.8		ug/Kg		92	58 - 125	1	20	
m-Xylene & p-Xylene	100	98.1		ug/Kg		98	70 - 146	1	20	
o-Xylene	50.0	53.3		ug/Kg		107	70 - 140	1	20	
2,2-Dichloropropane	50.0	56.5		ug/Kg		113	70 - 162	4	20	
Trichloroethene	50.0	47.1		ug/Kg		94	70 - 133	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: 720-55397-15 MS**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: CB9-4**

**Prep Type: Total/NA**

**Prep Batch: 153315**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier					
Methyl tert-butyl ether	ND		49.2	45.0		ug/Kg		91	69 - 130	
Acetone	ND		246	253		ug/Kg		91	37 - 150	
Benzene	ND		49.2	45.7		ug/Kg		93	70 - 130	
Dichlorobromomethane	ND		49.2	44.9		ug/Kg		91	64 - 135	
Bromobenzene	ND		49.2	52.8		ug/Kg		107	70 - 130	

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-15 MS**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: CB9-4**

**Prep Type: Total/NA**

**Prep Batch: 153315**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Chlorobromomethane	ND		49.2	49.2		ug/Kg		100	65 - 130
Bromoform	ND		49.2	53.2		ug/Kg		108	58 - 132
Bromomethane	ND		49.2	40.2		ug/Kg		82	56 - 130
2-Butanone (MEK)	ND		246	221		ug/Kg		90	41 - 150
n-Butylbenzene	ND		49.2	48.6		ug/Kg		99	60 - 145
sec-Butylbenzene	ND		49.2	51.0		ug/Kg		104	64 - 137
tert-Butylbenzene	ND		49.2	54.6		ug/Kg		111	63 - 134
Carbon disulfide	ND		49.2	37.7		ug/Kg		77	10 - 150
Carbon tetrachloride	ND		49.2	47.6		ug/Kg		97	54 - 130
Chlorobenzene	ND		49.2	50.0		ug/Kg		102	70 - 130
Chloroethane	ND		49.2	42.0		ug/Kg		85	61 - 130
Chloroform	ND		49.2	45.7		ug/Kg		93	67 - 130
Chloromethane	ND		49.2	38.1		ug/Kg		77	50 - 131
2-Chlorotoluene	ND		49.2	50.7		ug/Kg		103	70 - 130
4-Chlorotoluene	ND		49.2	48.4		ug/Kg		98	70 - 130
Chlorodibromomethane	ND		49.2	50.9		ug/Kg		103	60 - 141
1,2-Dichlorobenzene	ND		49.2	51.3		ug/Kg		104	70 - 130
1,3-Dichlorobenzene	ND		49.2	52.4		ug/Kg		107	70 - 130
1,4-Dichlorobenzene	ND		49.2	52.9		ug/Kg		107	70 - 130
1,3-Dichloropropane	ND		49.2	43.1		ug/Kg		88	70 - 130
1,1-Dichloropropene	ND		49.2	47.0		ug/Kg		95	67 - 130
1,2-Dibromo-3-Chloropropane	ND		49.2	52.4		ug/Kg		107	57 - 130
Ethylene Dibromide	ND		49.2	47.2		ug/Kg		96	66 - 135
Dibromomethane	ND		49.2	47.1		ug/Kg		96	65 - 131
Dichlorodifluoromethane	ND		49.2	43.5		ug/Kg		88	38 - 130
1,1-Dichloroethane	ND		49.2	44.2		ug/Kg		90	67 - 130
1,2-Dichloroethane	ND		49.2	38.5		ug/Kg		78	70 - 130
1,1-Dichloroethene	ND		49.2	48.8		ug/Kg		99	64 - 130
cis-1,2-Dichloroethene	7.0		49.2	49.4		ug/Kg		86	68 - 131
trans-1,2-Dichloroethene	ND		49.2	48.6		ug/Kg		99	70 - 130
1,2-Dichloropropane	ND		49.2	42.6		ug/Kg		87	65 - 133
cis-1,3-Dichloropropene	ND		49.2	43.7		ug/Kg		89	46 - 139
trans-1,3-Dichloropropene	ND		49.2	41.6		ug/Kg		85	55 - 131
Ethylbenzene	ND		49.2	49.9		ug/Kg		101	65 - 130
Hexachlorobutadiene	ND		49.2	39.8		ug/Kg		81	58 - 132
2-Hexanone	ND		246	193		ug/Kg		79	44 - 150
Isopropylbenzene	ND		49.2	50.6		ug/Kg		103	65 - 130
4-Isopropyltoluene	ND		49.2	53.9		ug/Kg		110	69 - 134
Methylene Chloride	ND		49.2	44.1		ug/Kg		90	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		246	199		ug/Kg		81	51 - 140
Naphthalene	ND		49.2	46.9		ug/Kg		95	45 - 146
N-Propylbenzene	ND		49.2	51.8		ug/Kg		105	70 - 130
Styrene	ND		49.2	46.9		ug/Kg		95	58 - 135
1,1,1,2-Tetrachloroethane	ND		49.2	51.1		ug/Kg		104	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		49.2	47.5		ug/Kg		97	70 - 131
Tetrachloroethene	ND		49.2	54.7		ug/Kg		109	67 - 130
Toluene	ND		49.2	48.7		ug/Kg		99	70 - 130
1,2,3-Trichlorobenzene	ND		49.2	42.2		ug/Kg		86	58 - 138

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-15 MS**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: CB9-4**

**Prep Type: Total/NA**

**Prep Batch: 153315**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	ND		49.2	43.6		ug/Kg		89	49 - 144
1,1,1-Trichloroethane	ND		49.2	49.4		ug/Kg		100	57 - 133
1,1,2-Trichloroethane	ND		49.2	45.7		ug/Kg		93	68 - 132
Trichlorofluoromethane	ND		49.2	50.3		ug/Kg		102	61 - 130
1,2,3-Trichloropropane	ND		49.2	48.8		ug/Kg		99	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.2	53.1		ug/Kg		108	52 - 130
1,2,4-Trimethylbenzene	ND		49.2	51.0		ug/Kg		104	64 - 140
1,3,5-Trimethylbenzene	ND		49.2	51.7		ug/Kg		105	67 - 134
Vinyl acetate	ND		49.2	ND	F1	ug/Kg		22	52 - 150
Vinyl chloride	ND		49.2	42.2		ug/Kg		86	62 - 130
m-Xylene & p-Xylene	ND		98.4	98.4		ug/Kg		100	70 - 130
o-Xylene	ND		49.2	50.0		ug/Kg		102	68 - 130
2,2-Dichloropropane	ND		49.2	46.1		ug/Kg		94	63 - 130
Trichloroethene	ND		49.2	52.4		ug/Kg		106	66 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	89		45 - 131
1,2-Dichloroethane-d4 (Surr)	78		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: 720-55397-15 MSD**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: CB9-4**

**Prep Type: Total/NA**

**Prep Batch: 153315**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Methyl tert-butyl ether	ND		49.1	45.5		ug/Kg		93	69 - 130	1	20
Acetone	ND		246	260		ug/Kg		95	37 - 150	3	20
Benzene	ND		49.1	44.9		ug/Kg		91	70 - 130	2	20
Dichlorobromomethane	ND		49.1	45.5		ug/Kg		93	64 - 135	1	20
Bromobenzene	ND		49.1	52.4		ug/Kg		107	70 - 130	1	20
Chlorobromomethane	ND		49.1	48.9		ug/Kg		100	65 - 130	1	20
Bromoform	ND		49.1	54.3		ug/Kg		111	58 - 132	2	20
Bromomethane	ND		49.1	40.1		ug/Kg		82	56 - 130	0	20
2-Butanone (MEK)	ND		246	221		ug/Kg		90	41 - 150	0	20
n-Butylbenzene	ND		49.1	46.0		ug/Kg		94	60 - 145	6	20
sec-Butylbenzene	ND		49.1	48.2		ug/Kg		98	64 - 137	6	20
tert-Butylbenzene	ND		49.1	52.9		ug/Kg		108	63 - 134	3	20
Carbon disulfide	ND		49.1	36.7		ug/Kg		75	10 - 150	3	20
Carbon tetrachloride	ND		49.1	47.6		ug/Kg		97	54 - 130	0	20
Chlorobenzene	ND		49.1	49.4		ug/Kg		101	70 - 130	1	20
Chloroethane	ND		49.1	41.4		ug/Kg		84	61 - 130	1	20
Chloroform	ND		49.1	44.9		ug/Kg		91	67 - 130	2	20
Chloromethane	ND		49.1	37.6		ug/Kg		77	50 - 131	1	20
2-Chlorotoluene	ND		49.1	49.8		ug/Kg		101	70 - 130	2	20
4-Chlorotoluene	ND		49.1	47.6		ug/Kg		97	70 - 130	2	20
Chlorodibromomethane	ND		49.1	51.7		ug/Kg		105	60 - 141	2	20
1,2-Dichlorobenzene	ND		49.1	51.3		ug/Kg		104	70 - 130	0	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-15 MSD**

**Matrix: Solid**

**Analysis Batch: 153296**

**Client Sample ID: CB9-4**

**Prep Type: Total/NA**

**Prep Batch: 153315**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,3-Dichlorobenzene	ND		49.1	51.8		ug/Kg		105	70 - 130	1	20
1,4-Dichlorobenzene	ND		49.1	52.3		ug/Kg		107	70 - 130	1	20
1,3-Dichloropropane	ND		49.1	43.6		ug/Kg		89	70 - 130	1	20
1,1-Dichloropropene	ND		49.1	45.4		ug/Kg		93	67 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		49.1	53.7		ug/Kg		109	57 - 130	2	20
Ethylene Dibromide	ND		49.1	47.8		ug/Kg		97	66 - 135	1	20
Dibromomethane	ND		49.1	47.4		ug/Kg		96	65 - 131	1	20
Dichlorodifluoromethane	ND		49.1	42.2		ug/Kg		86	38 - 130	3	20
1,1-Dichloroethane	ND		49.1	43.4		ug/Kg		88	67 - 130	2	20
1,2-Dichloroethane	ND		49.1	38.2		ug/Kg		78	70 - 130	1	20
1,1-Dichloroethene	ND		49.1	47.9		ug/Kg		98	64 - 130	2	20
cis-1,2-Dichloroethene	7.0		49.1	48.6		ug/Kg		85	68 - 131	2	20
trans-1,2-Dichloroethene	ND		49.1	47.5		ug/Kg		97	70 - 130	2	20
1,2-Dichloropropane	ND		49.1	42.3		ug/Kg		86	65 - 133	1	20
cis-1,3-Dichloropropene	ND		49.1	44.2		ug/Kg		90	46 - 139	1	20
trans-1,3-Dichloropropene	ND		49.1	42.1		ug/Kg		86	55 - 131	1	20
Ethylbenzene	ND		49.1	48.7		ug/Kg		99	65 - 130	2	20
Hexachlorobutadiene	ND		49.1	36.8		ug/Kg		75	58 - 132	8	20
2-Hexanone	ND		246	195		ug/Kg		79	44 - 150	1	20
Isopropylbenzene	ND		49.1	48.7		ug/Kg		99	65 - 130	4	20
4-Isopropyltoluene	ND		49.1	51.9		ug/Kg		106	69 - 134	4	20
Methylene Chloride	ND		49.1	44.3		ug/Kg		90	63 - 130	0	20
4-Methyl-2-pentanone (MIBK)	ND		246	200		ug/Kg		81	51 - 140	0	20
Naphthalene	ND		49.1	46.9		ug/Kg		95	45 - 146	0	20
N-Propylbenzene	ND		49.1	49.6		ug/Kg		101	70 - 130	4	20
Styrene	ND		49.1	46.4		ug/Kg		95	58 - 135	1	20
1,1,1,2-Tetrachloroethane	ND		49.1	51.2		ug/Kg		104	64 - 133	0	20
1,1,1,2,2-Tetrachloroethane	ND		49.1	48.0		ug/Kg		98	70 - 131	1	20
Tetrachloroethene	ND		49.1	52.9		ug/Kg		105	67 - 130	3	20
Toluene	ND		49.1	47.5		ug/Kg		97	70 - 130	2	20
1,2,3-Trichlorobenzene	ND		49.1	40.9		ug/Kg		83	58 - 138	3	20
1,2,4-Trichlorobenzene	ND		49.1	42.2		ug/Kg		86	49 - 144	3	20
1,1,1-Trichloroethane	ND		49.1	48.5		ug/Kg		99	57 - 133	2	20
1,1,2-Trichloroethane	ND		49.1	46.0		ug/Kg		94	68 - 132	1	20
Trichlorofluoromethane	ND		49.1	47.9		ug/Kg		97	61 - 130	5	20
1,2,3-Trichloropropane	ND		49.1	49.6		ug/Kg		101	62 - 150	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.1	52.1		ug/Kg		106	52 - 130	2	20
1,2,4-Trimethylbenzene	ND		49.1	49.7		ug/Kg		101	64 - 140	3	20
1,3,5-Trimethylbenzene	ND		49.1	50.2		ug/Kg		102	67 - 134	3	20
Vinyl acetate	ND		49.1	ND	F1	ug/Kg		21	52 - 150	8	20
Vinyl chloride	ND		49.1	41.5		ug/Kg		85	62 - 130	2	20
m-Xylene & p-Xylene	ND		98.2	95.8		ug/Kg		98	70 - 130	3	20
o-Xylene	ND		49.1	48.9		ug/Kg		100	68 - 130	2	20
2,2-Dichloropropane	ND		49.1	44.8		ug/Kg		91	63 - 130	3	20
Trichloroethene	ND		49.1	51.2		ug/Kg		104	66 - 130	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: 720-55397-15 MSD

Matrix: Solid

Analysis Batch: 153296

Client Sample ID: CB9-4

Prep Type: Total/NA

Prep Batch: 153315

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	89		45 - 131
1,2-Dichloroethane-d4 (Surr)	78		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: 720-55397-16 MS

Matrix: Solid

Analysis Batch: 153298

Client Sample ID: CB9-6-6.5

Prep Type: Total/NA

Prep Batch: 153316

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Methyl tert-butyl ether	ND		46.6	47.5		ug/Kg		102		69 - 130
Acetone	ND		233	308		ug/Kg		114		37 - 150
Benzene	ND		46.6	40.4		ug/Kg		87		70 - 130
Dichlorobromomethane	ND		46.6	45.1		ug/Kg		97		64 - 135
Bromobenzene	ND		46.6	42.3		ug/Kg		91		70 - 130
Chlorobromomethane	ND		46.6	43.7		ug/Kg		94		65 - 130
Bromoform	ND		46.6	42.9		ug/Kg		92		58 - 132
Bromomethane	ND		46.6	40.7		ug/Kg		87		56 - 130
2-Butanone (MEK)	ND		233	244		ug/Kg		104		41 - 150
n-Butylbenzene	ND		46.6	40.3		ug/Kg		86		60 - 145
sec-Butylbenzene	ND		46.6	39.9		ug/Kg		85		64 - 137
tert-Butylbenzene	ND		46.6	41.7		ug/Kg		89		63 - 134
Carbon disulfide	ND		46.6	33.1		ug/Kg		71		10 - 150
Carbon tetrachloride	ND		46.6	44.5		ug/Kg		95		54 - 130
Chlorobenzene	ND		46.6	42.3		ug/Kg		91		70 - 130
Chloroethane	ND		46.6	41.8		ug/Kg		90		61 - 130
Chloroform	ND		46.6	43.7		ug/Kg		94		67 - 130
Chloromethane	ND		46.6	46.4		ug/Kg		100		50 - 131
2-Chlorotoluene	ND		46.6	42.2		ug/Kg		90		70 - 130
4-Chlorotoluene	ND		46.6	41.7		ug/Kg		89		70 - 130
Chlorodibromomethane	ND		46.6	46.7		ug/Kg		100		60 - 141
1,2-Dichlorobenzene	ND		46.6	42.1		ug/Kg		90		70 - 130
1,3-Dichlorobenzene	ND		46.6	42.2		ug/Kg		91		70 - 130
1,4-Dichlorobenzene	ND		46.6	42.3		ug/Kg		91		70 - 130
1,3-Dichloropropane	ND		46.6	46.7		ug/Kg		100		70 - 130
1,1-Dichloropropene	ND		46.6	42.2		ug/Kg		90		67 - 130
1,2-Dibromo-3-Chloropropane	ND		46.6	49.3		ug/Kg		106		57 - 130
Ethylene Dibromide	ND		46.6	47.3		ug/Kg		101		66 - 135
Dibromomethane	ND		46.6	45.9		ug/Kg		98		65 - 131
Dichlorodifluoromethane	ND		46.6	40.2		ug/Kg		86		38 - 130
1,1-Dichloroethane	ND		46.6	44.3		ug/Kg		95		67 - 130
1,2-Dichloroethane	ND		46.6	46.7		ug/Kg		100		70 - 130
1,1-Dichloroethene	ND		46.6	38.1		ug/Kg		82		64 - 130
cis-1,2-Dichloroethene	ND		46.6	46.8		ug/Kg		97		68 - 131
trans-1,2-Dichloroethene	ND		46.6	40.2		ug/Kg		86		70 - 130
1,2-Dichloropropane	ND		46.6	44.3		ug/Kg		95		65 - 133
cis-1,3-Dichloropropene	ND		46.6	45.9		ug/Kg		98		46 - 139
trans-1,3-Dichloropropene	ND		46.6	47.8		ug/Kg		102		55 - 131
Ethylbenzene	ND		46.6	41.1		ug/Kg		88		65 - 130

TestAmerica Pleasanton



# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-16 MS**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: CB9-6-6.5**

**Prep Type: Total/NA**

**Prep Batch: 153316**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexachlorobutadiene	ND		46.6	31.1		ug/Kg		67	58 - 132
2-Hexanone	ND		233	292		ug/Kg		125	44 - 150
Isopropylbenzene	ND		46.6	41.9		ug/Kg		90	65 - 130
4-Isopropyltoluene	ND		46.6	41.3		ug/Kg		88	69 - 134
Methylene Chloride	ND		46.6	41.1		ug/Kg		88	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		233	300		ug/Kg		129	51 - 140
Naphthalene	ND		46.6	41.2		ug/Kg		88	45 - 146
N-Propylbenzene	ND		46.6	41.2		ug/Kg		88	70 - 130
Styrene	ND		46.6	43.1		ug/Kg		92	58 - 135
1,1,1,2-Tetrachloroethane	ND		46.6	46.4		ug/Kg		99	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		46.6	48.2		ug/Kg		103	70 - 131
Tetrachloroethene	11		46.6	54.1		ug/Kg		93	67 - 130
Toluene	ND		46.6	40.7		ug/Kg		87	70 - 130
1,2,3-Trichlorobenzene	ND		46.6	34.3		ug/Kg		73	58 - 138
1,2,4-Trichlorobenzene	ND		46.6	37.3		ug/Kg		80	49 - 144
1,1,1-Trichloroethane	ND		46.6	44.4		ug/Kg		95	57 - 133
1,1,2-Trichloroethane	ND		46.6	47.8		ug/Kg		102	68 - 132
Trichlorofluoromethane	ND		46.6	45.6		ug/Kg		98	61 - 130
1,2,3-Trichloropropane	ND		46.6	48.8		ug/Kg		105	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		46.6	39.0		ug/Kg		84	52 - 130
1,2,4-Trimethylbenzene	ND		46.6	43.3		ug/Kg		93	64 - 140
1,3,5-Trimethylbenzene	ND		46.6	43.1		ug/Kg		92	67 - 134
Vinyl acetate	ND		46.6	65.2		ug/Kg		140	52 - 150
Vinyl chloride	ND		46.6	42.4		ug/Kg		91	62 - 130
m-Xylene & p-Xylene	ND		93.3	79.6		ug/Kg		85	70 - 130
o-Xylene	ND		46.6	43.6		ug/Kg		94	68 - 130
2,2-Dichloropropane	ND		46.6	48.1		ug/Kg		103	63 - 130
Trichloroethene	ND		46.6	40.6		ug/Kg		86	66 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	115		60 - 140
Toluene-d8 (Surr)	102		58 - 140

**Lab Sample ID: 720-55397-16 MSD**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: CB9-6-6.5**

**Prep Type: Total/NA**

**Prep Batch: 153316**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Methyl tert-butyl ether	ND		48.2	54.1		ug/Kg		112	69 - 130	13	20
Acetone	ND		241	345		ug/Kg		126	37 - 150	11	20
Benzene	ND		48.2	45.8		ug/Kg		95	70 - 130	12	20
Dichlorobromomethane	ND		48.2	49.8		ug/Kg		103	64 - 135	10	20
Bromobenzene	ND		48.2	49.5		ug/Kg		103	70 - 130	16	20
Chlorobromomethane	ND		48.2	49.1		ug/Kg		102	65 - 130	12	20
Bromoform	ND		48.2	49.2		ug/Kg		102	58 - 132	14	20
Bromomethane	ND		48.2	42.0		ug/Kg		87	56 - 130	3	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-16 MSD**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: CB9-6-6.5**

**Prep Type: Total/NA**

**Prep Batch: 153316**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	ND		241	265		ug/Kg		110	41 - 150	9	20
n-Butylbenzene	ND		48.2	45.4		ug/Kg		94	60 - 145	12	20
sec-Butylbenzene	ND		48.2	45.6		ug/Kg		95	64 - 137	13	20
tert-Butylbenzene	ND		48.2	47.8		ug/Kg		99	63 - 134	14	20
Carbon disulfide	ND		48.2	35.1		ug/Kg		73	10 - 150	6	20
Carbon tetrachloride	ND		48.2	50.4		ug/Kg		105	54 - 130	12	20
Chlorobenzene	ND		48.2	47.5		ug/Kg		99	70 - 130	12	20
Chloroethane	ND		48.2	43.1		ug/Kg		89	61 - 130	3	20
Chloroform	ND		48.2	48.5		ug/Kg		101	67 - 130	10	20
Chloromethane	ND		48.2	47.9		ug/Kg		99	50 - 131	3	20
2-Chlorotoluene	ND		48.2	48.8		ug/Kg		101	70 - 130	15	20
4-Chlorotoluene	ND		48.2	48.2		ug/Kg		100	70 - 130	14	20
Chlorodibromomethane	ND		48.2	52.7		ug/Kg		109	60 - 141	12	20
1,2-Dichlorobenzene	ND		48.2	47.1		ug/Kg		98	70 - 130	11	20
1,3-Dichlorobenzene	ND		48.2	47.8		ug/Kg		99	70 - 130	12	20
1,4-Dichlorobenzene	ND		48.2	47.7		ug/Kg		99	70 - 130	12	20
1,3-Dichloropropane	ND		48.2	52.5		ug/Kg		109	70 - 130	12	20
1,1-Dichloropropene	ND		48.2	48.4		ug/Kg		100	67 - 130	14	20
1,2-Dibromo-3-Chloropropane	ND		48.2	58.0		ug/Kg		120	57 - 130	16	20
Ethylene Dibromide	ND		48.2	53.9		ug/Kg		112	66 - 135	13	20
Dibromomethane	ND		48.2	51.9		ug/Kg		108	65 - 131	12	20
Dichlorodifluoromethane	ND		48.2	43.0		ug/Kg		89	38 - 130	7	20
1,1-Dichloroethane	ND		48.2	49.6		ug/Kg		103	67 - 130	11	20
1,2-Dichloroethane	ND		48.2	52.7		ug/Kg		109	70 - 130	12	20
1,1-Dichloroethene	ND		48.2	41.6		ug/Kg		86	64 - 130	9	20
cis-1,2-Dichloroethene	ND		48.2	51.5		ug/Kg		103	68 - 131	10	20
trans-1,2-Dichloroethene	ND		48.2	45.2		ug/Kg		94	70 - 130	12	20
1,2-Dichloropropane	ND		48.2	49.2		ug/Kg		102	65 - 133	11	20
cis-1,3-Dichloropropene	ND		48.2	51.4		ug/Kg		107	46 - 139	11	20
trans-1,3-Dichloropropene	ND		48.2	53.3		ug/Kg		111	55 - 131	11	20
Ethylbenzene	ND		48.2	46.6		ug/Kg		97	65 - 130	12	20
Hexachlorobutadiene	ND		48.2	36.3		ug/Kg		75	58 - 132	15	20
2-Hexanone	ND		241	328		ug/Kg		136	44 - 150	11	20
Isopropylbenzene	ND		48.2	47.3		ug/Kg		98	65 - 130	12	20
4-Isopropyltoluene	ND		48.2	46.3		ug/Kg		96	69 - 134	12	20
Methylene Chloride	ND		48.2	43.4		ug/Kg		90	63 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		241	334		ug/Kg		139	51 - 140	11	20
Naphthalene	ND		48.2	50.1		ug/Kg		104	45 - 146	20	20
N-Propylbenzene	ND		48.2	48.1		ug/Kg		100	70 - 130	15	20
Styrene	ND		48.2	49.2		ug/Kg		102	58 - 135	13	20
1,1,1,2-Tetrachloroethane	ND		48.2	52.8		ug/Kg		110	64 - 133	13	20
1,1,1,2,2-Tetrachloroethane	ND		48.2	57.4		ug/Kg		119	70 - 131	17	20
Tetrachloroethene	11		48.2	55.6		ug/Kg		93	67 - 130	3	20
Toluene	ND		48.2	45.9		ug/Kg		95	70 - 130	12	20
1,2,3-Trichlorobenzene	ND		48.2	40.9		ug/Kg		85	58 - 138	18	20
1,2,4-Trichlorobenzene	ND		48.2	42.5		ug/Kg		88	49 - 144	13	20
1,1,1-Trichloroethane	ND		48.2	49.6		ug/Kg		103	57 - 133	11	20
1,1,2-Trichloroethane	ND		48.2	54.2		ug/Kg		112	68 - 132	13	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-16 MSD**

**Matrix: Solid**

**Analysis Batch: 153298**

**Client Sample ID: CB9-6-6.5**

**Prep Type: Total/NA**

**Prep Batch: 153316**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Trichlorofluoromethane	ND		48.2	48.4		ug/Kg		100	61 - 130	6	20
1,2,3-Trichloropropane	ND		48.2	57.2		ug/Kg		119	62 - 150	16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.2	42.4		ug/Kg		88	52 - 130	8	20
1,2,4-Trimethylbenzene	ND		48.2	48.9		ug/Kg		102	64 - 140	12	20
1,3,5-Trimethylbenzene	ND		48.2	49.7		ug/Kg		103	67 - 134	14	20
Vinyl acetate	ND		48.2	65.4		ug/Kg		136	52 - 150	0	20
Vinyl chloride	ND		48.2	44.3		ug/Kg		92	62 - 130	4	20
m-Xylene & p-Xylene	ND		96.3	89.5		ug/Kg		93	70 - 130	12	20
o-Xylene	ND		48.2	49.2		ug/Kg		102	68 - 130	12	20
2,2-Dichloropropane	ND		48.2	54.1		ug/Kg		112	63 - 130	12	20
Trichloroethene	ND		48.2	45.6		ug/Kg		94	66 - 130	11	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	111		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: MB 720-153343/4**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/11/14 18:33	1
Acetone	ND		50		ug/Kg			02/11/14 18:33	1
Benzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/11/14 18:33	1
Bromobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Chlorobromomethane	ND		20		ug/Kg			02/11/14 18:33	1
Bromoform	ND		5.0		ug/Kg			02/11/14 18:33	1
Bromomethane	ND		10		ug/Kg			02/11/14 18:33	1
2-Butanone (MEK)	ND		50		ug/Kg			02/11/14 18:33	1
n-Butylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Carbon disulfide	ND		5.0		ug/Kg			02/11/14 18:33	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/11/14 18:33	1
Chlorobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Chloroethane	ND		10		ug/Kg			02/11/14 18:33	1
Chloroform	ND		5.0		ug/Kg			02/11/14 18:33	1
Chloromethane	ND		10		ug/Kg			02/11/14 18:33	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 18:33	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 18:33	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/11/14 18:33	1

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: MB 720-153343/4

Matrix: Solid

Analysis Batch: 153343

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloropropene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/11/14 18:33	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/11/14 18:33	1
Dibromomethane	ND		10		ug/Kg			02/11/14 18:33	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/11/14 18:33	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/11/14 18:33	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 18:33	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 18:33	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 18:33	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 18:33	1
Ethylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Hexachlorobutadiene	ND		5.0		ug/Kg			02/11/14 18:33	1
2-Hexanone	ND		50		ug/Kg			02/11/14 18:33	1
Isopropylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/11/14 18:33	1
Methylene Chloride	ND		10		ug/Kg			02/11/14 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/11/14 18:33	1
Naphthalene	ND		10		ug/Kg			02/11/14 18:33	1
N-Propylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Styrene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
Tetrachloroethene	ND		5.0		ug/Kg			02/11/14 18:33	1
Toluene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/11/14 18:33	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 18:33	1
Vinyl acetate	ND		50		ug/Kg			02/11/14 18:33	1
Vinyl chloride	ND		5.0		ug/Kg			02/11/14 18:33	1
Xylenes, Total	ND		10		ug/Kg			02/11/14 18:33	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 18:33	1
Trichloroethene	ND		5.0		ug/Kg			02/11/14 18:33	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		45 - 131					02/11/14 18:33	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140					02/11/14 18:33	1
Toluene-d8 (Surr)	99		58 - 140					02/11/14 18:33	1

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153343/5**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	52.1		ug/Kg		104	70 - 144
Acetone	250	233		ug/Kg		93	30 - 162
Benzene	50.0	47.6		ug/Kg		95	70 - 130
Dichlorobromomethane	50.0	50.5		ug/Kg		101	70 - 131
Bromobenzene	50.0	52.1		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	52.5		ug/Kg		105	70 - 130
Bromoform	50.0	52.0		ug/Kg		104	59 - 158
Bromomethane	50.0	46.6		ug/Kg		93	59 - 132
2-Butanone (MEK)	250	249		ug/Kg		100	53 - 124
n-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 142
sec-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 136
tert-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 130
Carbon disulfide	50.0	38.1		ug/Kg		76	60 - 140
Carbon tetrachloride	50.0	50.9		ug/Kg		102	70 - 138
Chlorobenzene	50.0	50.5		ug/Kg		101	70 - 130
Chloroethane	50.0	45.6		ug/Kg		91	65 - 130
Chloroform	50.0	51.7		ug/Kg		103	77 - 127
Chloromethane	50.0	40.0		ug/Kg		80	55 - 140
2-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 138
4-Chlorotoluene	50.0	50.3		ug/Kg		101	70 - 136
Chlorodibromomethane	50.0	54.2		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	50.7		ug/Kg		101	70 - 130
1,3-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 131
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
1,3-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 140
1,1-Dichloropropene	50.0	52.1		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/Kg		93	60 - 145
Ethylene Dibromide	50.0	52.8		ug/Kg		106	70 - 140
Dibromomethane	50.0	52.4		ug/Kg		105	70 - 139
Dichlorodifluoromethane	50.0	42.2		ug/Kg		84	37 - 158
1,1-Dichloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,2-Dichloroethane	50.0	49.3		ug/Kg		99	70 - 130
1,1-Dichloroethene	50.0	46.0		ug/Kg		92	76 - 122
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	70 - 138
trans-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	67 - 130
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	73 - 127
cis-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	68 - 147
trans-1,3-Dichloropropene	50.0	56.8		ug/Kg		114	70 - 136
Ethylbenzene	50.0	48.3		ug/Kg		97	80 - 137
Hexachlorobutadiene	50.0	46.1		ug/Kg		92	70 - 132
2-Hexanone	250	217		ug/Kg		87	44 - 133
Isopropylbenzene	50.0	50.8		ug/Kg		102	88 - 128
4-Isopropyltoluene	50.0	50.3		ug/Kg		101	70 - 133
Methylene Chloride	50.0	45.7		ug/Kg		91	70 - 134
4-Methyl-2-pentanone (MIBK)	250	222		ug/Kg		89	60 - 160
Naphthalene	50.0	46.5		ug/Kg		93	60 - 147
N-Propylbenzene	50.0	50.7		ug/Kg		101	70 - 130
Styrene	50.0	50.4		ug/Kg		101	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153343/5**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/Kg		99	70 - 146
Tetrachloroethene	50.0	50.6		ug/Kg		101	70 - 132
Toluene	50.0	48.0		ug/Kg		96	80 - 128
1,2,3-Trichlorobenzene	50.0	47.6		ug/Kg		95	60 - 140
1,2,4-Trichlorobenzene	50.0	48.1		ug/Kg		96	60 - 140
1,1,1-Trichloroethane	50.0	52.1		ug/Kg		104	70 - 130
1,1,2-Trichloroethane	50.0	51.7		ug/Kg		103	70 - 130
Trichlorofluoromethane	50.0	51.4		ug/Kg		103	60 - 140
1,2,3-Trichloropropane	50.0	53.0		ug/Kg		106	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.3		ug/Kg		97	60 - 140
1,2,4-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 130
1,3,5-Trimethylbenzene	50.0	51.3		ug/Kg		103	70 - 131
Vinyl acetate	50.0	48.9	J	ug/Kg		98	38 - 176
Vinyl chloride	50.0	44.1		ug/Kg		88	58 - 125
m-Xylene & p-Xylene	100	96.7		ug/Kg		97	70 - 146
o-Xylene	50.0	50.3		ug/Kg		101	70 - 140
2,2-Dichloropropane	50.0	56.8		ug/Kg		114	70 - 162
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: LCSD 720-153343/6**

**Matrix: Solid**

**Analysis Batch: 153343**

**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	50.0	50.2		ug/Kg		100	70 - 144	4	20
Acetone	250	228		ug/Kg		91	30 - 162	2	30
Benzene	50.0	47.4		ug/Kg		95	70 - 130	0	20
Dichlorobromomethane	50.0	50.4		ug/Kg		101	70 - 131	0	20
Bromobenzene	50.0	51.2		ug/Kg		102	70 - 130	2	20
Chlorobromomethane	50.0	52.3		ug/Kg		105	70 - 130	0	20
Bromoform	50.0	50.5		ug/Kg		101	59 - 158	3	20
Bromomethane	50.0	46.7		ug/Kg		93	59 - 132	0	20
2-Butanone (MEK)	250	233		ug/Kg		93	53 - 124	7	20
n-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 142	3	20
sec-Butylbenzene	50.0	50.6		ug/Kg		101	70 - 136	1	20
tert-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 130	2	20
Carbon disulfide	50.0	38.1		ug/Kg		76	60 - 140	0	20
Carbon tetrachloride	50.0	51.3		ug/Kg		103	70 - 138	1	20
Chlorobenzene	50.0	49.9		ug/Kg		100	70 - 130	1	20
Chloroethane	50.0	46.0		ug/Kg		92	65 - 130	1	20
Chloroform	50.0	51.4		ug/Kg		103	77 - 127	1	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: LCSD 720-153343/6

Matrix: Solid

Analysis Batch: 153343

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
Chloromethane	50.0	39.3		ug/Kg		79	55 - 140	2	20
2-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 138	1	20
4-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 136	0	20
Chlorodibromomethane	50.0	52.5		ug/Kg		105	70 - 146	3	20
1,2-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 130	2	20
1,3-Dichlorobenzene	50.0	51.5		ug/Kg		103	70 - 131	1	20
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 130	0	20
1,3-Dichloropropane	50.0	49.9		ug/Kg		100	70 - 140	2	20
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/Kg		86	60 - 145	8	20
Ethylene Dibromide	50.0	51.1		ug/Kg		102	70 - 140	3	20
Dibromomethane	50.0	50.4		ug/Kg		101	70 - 139	4	20
Dichlorodifluoromethane	50.0	42.2		ug/Kg		84	37 - 158	0	20
1,1-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 130	0	20
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	70 - 130	2	20
1,1-Dichloroethene	50.0	46.0		ug/Kg		92	76 - 122	0	20
cis-1,2-Dichloroethene	50.0	48.1		ug/Kg		96	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	67 - 130	3	20
1,2-Dichloropropane	50.0	46.5		ug/Kg		93	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	52.1		ug/Kg		104	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	55.0		ug/Kg		110	70 - 136	3	20
Ethylbenzene	50.0	48.3		ug/Kg		97	80 - 137	0	20
Hexachlorobutadiene	50.0	48.2		ug/Kg		96	70 - 132	5	20
2-Hexanone	250	204		ug/Kg		82	44 - 133	6	20
Isopropylbenzene	50.0	51.1		ug/Kg		102	88 - 128	0	20
4-Isopropyltoluene	50.0	50.8		ug/Kg		102	70 - 133	1	20
Methylene Chloride	50.0	45.4		ug/Kg		91	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	206		ug/Kg		82	60 - 160	7	20
Naphthalene	50.0	46.5		ug/Kg		93	60 - 147	0	20
N-Propylbenzene	50.0	51.1		ug/Kg		102	70 - 130	1	20
Styrene	50.0	49.9		ug/Kg		100	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/Kg		94	70 - 146	5	20
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132	0	20
Toluene	50.0	47.8		ug/Kg		96	80 - 128	0	20
1,2,3-Trichlorobenzene	50.0	48.4		ug/Kg		97	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	49.1		ug/Kg		98	60 - 140	2	20
1,1,1-Trichloroethane	50.0	53.0		ug/Kg		106	70 - 130	2	20
1,1,2-Trichloroethane	50.0	50.1		ug/Kg		100	70 - 130	3	20
Trichlorofluoromethane	50.0	52.0		ug/Kg		104	60 - 140	1	20
1,2,3-Trichloropropane	50.0	49.2		ug/Kg		98	70 - 146	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.4		ug/Kg		97	60 - 140	0	20
1,2,4-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	70 - 131	0	20
Vinyl acetate	50.0	45.5	J	ug/Kg		91	38 - 176	7	20
Vinyl chloride	50.0	44.3		ug/Kg		89	58 - 125	0	20
m-Xylene & p-Xylene	100	97.0		ug/Kg		97	70 - 146	0	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCSD 720-153343/6**

**Matrix: Solid**

**Analysis Batch: 153343**

**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		
o-Xylene	50.0	49.8		ug/Kg		100	70 - 140	1	20	
2,2-Dichloropropane	50.0	58.9		ug/Kg		118	70 - 162	4	20	
Trichloroethene	50.0	49.2		ug/Kg		98	70 - 133	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: MB 720-153344/4**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/11/14 19:52	1
Acetone	ND		50		ug/Kg			02/11/14 19:52	1
Benzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/11/14 19:52	1
Bromobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Chlorobromomethane	ND		20		ug/Kg			02/11/14 19:52	1
Bromoform	ND		5.0		ug/Kg			02/11/14 19:52	1
Bromomethane	ND		10		ug/Kg			02/11/14 19:52	1
2-Butanone (MEK)	ND		50		ug/Kg			02/11/14 19:52	1
n-Butylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Carbon disulfide	ND		5.0		ug/Kg			02/11/14 19:52	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/11/14 19:52	1
Chlorobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Chloroethane	ND		10		ug/Kg			02/11/14 19:52	1
Chloroform	ND		5.0		ug/Kg			02/11/14 19:52	1
Chloromethane	ND		10		ug/Kg			02/11/14 19:52	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 19:52	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/11/14 19:52	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1-Dichloropropene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/11/14 19:52	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/11/14 19:52	1
Dibromomethane	ND		10		ug/Kg			02/11/14 19:52	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/11/14 19:52	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/11/14 19:52	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 19:52	1

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153344/4**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 19:52	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 19:52	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/11/14 19:52	1
Ethylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Hexachlorobutadiene	ND		5.0		ug/Kg			02/11/14 19:52	1
2-Hexanone	ND		50		ug/Kg			02/11/14 19:52	1
Isopropylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/11/14 19:52	1
Methylene Chloride	ND		10		ug/Kg			02/11/14 19:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/11/14 19:52	1
Naphthalene	ND		10		ug/Kg			02/11/14 19:52	1
N-Propylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Styrene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
Tetrachloroethene	ND		5.0		ug/Kg			02/11/14 19:52	1
Toluene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/11/14 19:52	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/11/14 19:52	1
Vinyl acetate	ND		50		ug/Kg			02/11/14 19:52	1
Vinyl chloride	ND		5.0		ug/Kg			02/11/14 19:52	1
Xylenes, Total	ND		10		ug/Kg			02/11/14 19:52	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/11/14 19:52	1
Trichloroethene	ND		5.0		ug/Kg			02/11/14 19:52	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	93		45 - 131		02/11/14 19:52	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 140		02/11/14 19:52	1
Toluene-d8 (Surr)	98		58 - 140		02/11/14 19:52	1

**Lab Sample ID: LCS 720-153344/5**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Methyl tert-butyl ether	50.0	46.5		ug/Kg		93	70 - 144
Acetone	250	207		ug/Kg		83	30 - 162
Benzene	50.0	46.1		ug/Kg		92	70 - 130
Dichlorobromomethane	50.0	47.7		ug/Kg		95	70 - 131
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 130

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153344/5**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobromomethane	50.0	51.1		ug/Kg		102	70 - 130
Bromoform	50.0	54.6		ug/Kg		109	59 - 158
Bromomethane	50.0	40.0		ug/Kg		80	59 - 132
2-Butanone (MEK)	250	205		ug/Kg		82	53 - 124
n-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 142
sec-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	51.5		ug/Kg		103	70 - 130
Carbon disulfide	50.0	35.4		ug/Kg		71	60 - 140
Carbon tetrachloride	50.0	47.5		ug/Kg		95	70 - 138
Chlorobenzene	50.0	50.1		ug/Kg		100	70 - 130
Chloroethane	50.0	40.1		ug/Kg		80	65 - 130
Chloroform	50.0	46.0		ug/Kg		92	77 - 127
Chloromethane	50.0	36.1		ug/Kg		72	55 - 140
2-Chlorotoluene	50.0	48.2		ug/Kg		96	70 - 138
4-Chlorotoluene	50.0	46.6		ug/Kg		93	70 - 136
Chlorodibromomethane	50.0	54.8		ug/Kg		110	70 - 146
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 130
1,3-Dichlorobenzene	50.0	53.0		ug/Kg		106	70 - 131
1,4-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 130
1,3-Dichloropropane	50.0	45.3		ug/Kg		91	70 - 140
1,1-Dichloropropene	50.0	45.7		ug/Kg		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	60 - 145
Ethylene Dibromide	50.0	50.1		ug/Kg		100	70 - 140
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 139
Dichlorodifluoromethane	50.0	39.3		ug/Kg		79	37 - 158
1,1-Dichloroethane	50.0	44.1		ug/Kg		88	70 - 130
1,2-Dichloroethane	50.0	40.1		ug/Kg		80	70 - 130
1,1-Dichloroethene	50.0	46.8		ug/Kg		94	76 - 122
cis-1,2-Dichloroethene	50.0	42.7		ug/Kg		85	70 - 138
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	67 - 130
1,2-Dichloropropane	50.0	44.2		ug/Kg		88	73 - 127
cis-1,3-Dichloropropene	50.0	46.5		ug/Kg		93	68 - 147
trans-1,3-Dichloropropene	50.0	44.6		ug/Kg		89	70 - 136
Ethylbenzene	50.0	48.9		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	49.6		ug/Kg		99	70 - 132
2-Hexanone	250	193		ug/Kg		77	44 - 133
Isopropylbenzene	50.0	50.2		ug/Kg		100	88 - 128
4-Isopropyltoluene	50.0	52.3		ug/Kg		105	70 - 133
Methylene Chloride	50.0	45.3		ug/Kg		91	70 - 134
4-Methyl-2-pentanone (MIBK)	250	203		ug/Kg		81	60 - 160
Naphthalene	50.0	52.1		ug/Kg		104	60 - 147
N-Propylbenzene	50.0	48.1		ug/Kg		96	70 - 130
Styrene	50.0	48.8		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/Kg		89	70 - 146
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 132
Toluene	50.0	47.2		ug/Kg		94	80 - 128
1,2,3-Trichlorobenzene	50.0	53.9		ug/Kg		108	60 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153344/5**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	53.8		ug/Kg		108	60 - 140
1,1,1-Trichloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	70 - 130
Trichlorofluoromethane	50.0	44.0		ug/Kg		88	60 - 140
1,2,3-Trichloropropane	50.0	44.0		ug/Kg		88	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0		ug/Kg		100	60 - 140
1,2,4-Trimethylbenzene	50.0	48.8		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.0		ug/Kg		98	70 - 131
Vinyl acetate	50.0	45.3	J	ug/Kg		91	38 - 176
Vinyl chloride	50.0	39.4		ug/Kg		79	58 - 125
m-Xylene & p-Xylene	100	96.9		ug/Kg		97	70 - 146
o-Xylene	50.0	50.0		ug/Kg		100	70 - 140
2,2-Dichloropropane	50.0	44.4		ug/Kg		89	70 - 162
Trichloroethene	50.0	51.7		ug/Kg		103	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	91		45 - 131
1,2-Dichloroethane-d4 (Surr)	80		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: LCSD 720-153344/6**

**Matrix: Solid**

**Analysis Batch: 153344**

**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	50.0	50.0		ug/Kg		100	70 - 144	7	20
Acetone	250	250		ug/Kg		100	30 - 162	19	30
Benzene	50.0	45.2		ug/Kg		90	70 - 130	2	20
Dichlorobromomethane	50.0	48.1		ug/Kg		96	70 - 131	1	20
Bromobenzene	50.0	49.6		ug/Kg		99	70 - 130	2	20
Chlorobromomethane	50.0	51.9		ug/Kg		104	70 - 130	2	20
Bromoform	50.0	59.1		ug/Kg		118	59 - 158	8	20
Bromomethane	50.0	40.5		ug/Kg		81	59 - 132	1	20
2-Butanone (MEK)	250	240		ug/Kg		96	53 - 124	16	20
n-Butylbenzene	50.0	46.5		ug/Kg		93	70 - 142	6	20
sec-Butylbenzene	50.0	46.3		ug/Kg		93	70 - 136	5	20
tert-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 130	5	20
Carbon disulfide	50.0	35.5		ug/Kg		71	60 - 140	0	20
Carbon tetrachloride	50.0	47.3		ug/Kg		95	70 - 138	0	20
Chlorobenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
Chloroethane	50.0	40.6		ug/Kg		81	65 - 130	1	20
Chloroform	50.0	45.5		ug/Kg		91	77 - 127	1	20
Chloromethane	50.0	36.3		ug/Kg		73	55 - 140	1	20
2-Chlorotoluene	50.0	46.0		ug/Kg		92	70 - 138	5	20
4-Chlorotoluene	50.0	44.9		ug/Kg		90	70 - 136	4	20
Chlorodibromomethane	50.0	56.9		ug/Kg		114	70 - 146	4	20
1,2-Dichlorobenzene	50.0	51.6		ug/Kg		103	70 - 130	1	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: LCSD 720-153344/6

Matrix: Solid

Analysis Batch: 153344

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,3-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 131	3	20
1,4-Dichlorobenzene	50.0	52.2		ug/Kg		104	70 - 130	3	20
1,3-Dichloropropane	50.0	47.5		ug/Kg		95	70 - 140	5	20
1,1-Dichloropropene	50.0	44.3		ug/Kg		89	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	50.0	56.1		ug/Kg		112	60 - 145	12	20
Ethylene Dibromide	50.0	52.8		ug/Kg		106	70 - 140	5	20
Dibromomethane	50.0	51.0		ug/Kg		102	70 - 139	4	20
Dichlorodifluoromethane	50.0	39.3		ug/Kg		79	37 - 158	0	20
1,1-Dichloroethane	50.0	43.5		ug/Kg		87	70 - 130	1	20
1,2-Dichloroethane	50.0	40.8		ug/Kg		82	70 - 130	2	20
1,1-Dichloroethene	50.0	46.6		ug/Kg		93	76 - 122	0	20
cis-1,2-Dichloroethene	50.0	42.4		ug/Kg		85	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	67 - 130	2	20
1,2-Dichloropropane	50.0	44.0		ug/Kg		88	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	47.0		ug/Kg		94	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	46.3		ug/Kg		93	70 - 136	4	20
Ethylbenzene	50.0	47.5		ug/Kg		95	80 - 137	3	20
Hexachlorobutadiene	50.0	47.0		ug/Kg		94	70 - 132	5	20
2-Hexanone	250	230		ug/Kg		92	44 - 133	18	20
Isopropylbenzene	50.0	49.1		ug/Kg		98	88 - 128	2	20
4-Isopropyltoluene	50.0	50.1		ug/Kg		100	70 - 133	4	20
Methylene Chloride	50.0	45.7		ug/Kg		91	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	236		ug/Kg		94	60 - 160	15	20
Naphthalene	50.0	55.4		ug/Kg		111	60 - 147	6	20
N-Propylbenzene	50.0	45.4		ug/Kg		91	70 - 130	6	20
Styrene	50.0	48.2		ug/Kg		96	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	70 - 146	7	20
Tetrachloroethene	50.0	52.4		ug/Kg		105	70 - 132	2	20
Toluene	50.0	45.6		ug/Kg		91	80 - 128	4	20
1,2,3-Trichlorobenzene	50.0	53.8		ug/Kg		108	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	52.5		ug/Kg		105	60 - 140	3	20
1,1,1-Trichloroethane	50.0	47.3		ug/Kg		95	70 - 130	2	20
1,1,2-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 130	5	20
Trichlorofluoromethane	50.0	44.3		ug/Kg		89	60 - 140	1	20
1,2,3-Trichloropropane	50.0	47.5		ug/Kg		95	70 - 146	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.2		ug/Kg		100	60 - 140	0	20
1,2,4-Trimethylbenzene	50.0	46.8		ug/Kg		94	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 131	5	20
Vinyl acetate	50.0	49.4	J	ug/Kg		99	38 - 176	9	20
Vinyl chloride	50.0	38.1		ug/Kg		76	58 - 125	3	20
m-Xylene & p-Xylene	100	93.9		ug/Kg		94	70 - 146	3	20
o-Xylene	50.0	49.0		ug/Kg		98	70 - 140	2	20
2,2-Dichloropropane	50.0	43.5		ug/Kg		87	70 - 162	2	20
Trichloroethene	50.0	50.8		ug/Kg		102	70 - 133	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCSD 720-153344/6**

**Matrix: Solid**

**Analysis Batch: 153344**

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

**Prep Type: Total/NA**

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	83		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: 720-55397-31 MS**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: CB8-4**

**Prep Type: Total/NA**

**Prep Batch: 153355**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Methyl tert-butyl ether	ND		43.9	43.7		ug/Kg		100	69 - 130	
Acetone	ND		220	199		ug/Kg		91	37 - 150	
Benzene	ND		43.9	41.1		ug/Kg		94	70 - 130	
Dichlorobromomethane	ND		43.9	44.9		ug/Kg		102	64 - 135	
Bromobenzene	ND		43.9	43.7		ug/Kg		100	70 - 130	
Chlorobromomethane	ND		43.9	45.8		ug/Kg		104	65 - 130	
Bromoform	ND		43.9	43.9		ug/Kg		100	58 - 132	
Bromomethane	ND		43.9	39.9		ug/Kg		91	56 - 130	
2-Butanone (MEK)	ND		220	200		ug/Kg		91	41 - 150	
n-Butylbenzene	ND		43.9	44.2		ug/Kg		101	60 - 145	
sec-Butylbenzene	ND		43.9	43.8		ug/Kg		100	64 - 137	
tert-Butylbenzene	ND		43.9	44.2		ug/Kg		101	63 - 134	
Carbon disulfide	ND		43.9	33.1		ug/Kg		75	10 - 150	
Carbon tetrachloride	ND		43.9	45.4		ug/Kg		103	54 - 130	
Chlorobenzene	ND		43.9	43.4		ug/Kg		99	70 - 130	
Chloroethane	ND		43.9	39.8		ug/Kg		91	61 - 130	
Chloroform	ND		43.9	45.5		ug/Kg		103	67 - 130	
Chloromethane	ND		43.9	33.5		ug/Kg		76	50 - 131	
2-Chlorotoluene	ND		43.9	45.0		ug/Kg		103	70 - 130	
4-Chlorotoluene	ND		43.9	43.3		ug/Kg		98	70 - 130	
Chlorodibromomethane	ND		43.9	46.8		ug/Kg		107	60 - 141	
1,2-Dichlorobenzene	ND		43.9	43.9		ug/Kg		100	70 - 130	
1,3-Dichlorobenzene	ND		43.9	44.7		ug/Kg		102	70 - 130	
1,4-Dichlorobenzene	ND		43.9	43.7		ug/Kg		100	70 - 130	
1,3-Dichloropropane	ND		43.9	43.1		ug/Kg		98	70 - 130	
1,1-Dichloropropene	ND		43.9	45.3		ug/Kg		103	67 - 130	
1,2-Dibromo-3-Chloropropane	ND		43.9	37.0		ug/Kg		84	57 - 130	
Ethylene Dibromide	ND		43.9	44.0		ug/Kg		100	66 - 135	
Dibromomethane	ND		43.9	44.6		ug/Kg		102	65 - 131	
Dichlorodifluoromethane	ND		43.9	37.9		ug/Kg		86	38 - 130	
1,1-Dichloroethane	ND		43.9	42.3		ug/Kg		96	67 - 130	
1,2-Dichloroethane	ND		43.9	43.2		ug/Kg		98	70 - 130	
1,1-Dichloroethene	ND		43.9	39.4		ug/Kg		90	64 - 130	
cis-1,2-Dichloroethene	ND		43.9	42.4		ug/Kg		96	68 - 131	
trans-1,2-Dichloroethene	ND		43.9	43.4		ug/Kg		99	70 - 130	
1,2-Dichloropropane	ND		43.9	40.4		ug/Kg		92	65 - 133	
cis-1,3-Dichloropropene	ND		43.9	44.9		ug/Kg		102	46 - 139	
trans-1,3-Dichloropropene	ND		43.9	48.3		ug/Kg		110	55 - 131	
Ethylbenzene	ND		43.9	42.0		ug/Kg		96	65 - 130	

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-31 MS**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: CB8-4**

**Prep Type: Total/NA**

**Prep Batch: 153355**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Hexachlorobutadiene	ND		43.9	42.0		ug/Kg		96	58 - 132
2-Hexanone	ND		220	181		ug/Kg		83	44 - 150
Isopropylbenzene	ND		43.9	44.3		ug/Kg		101	65 - 130
4-Isopropyltoluene	ND		43.9	44.2		ug/Kg		101	69 - 134
Methylene Chloride	ND		43.9	39.6		ug/Kg		90	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		220	181		ug/Kg		82	51 - 140
Naphthalene	ND		43.9	39.5		ug/Kg		90	45 - 146
N-Propylbenzene	ND		43.9	43.3		ug/Kg		99	70 - 130
Styrene	ND		43.9	43.9		ug/Kg		100	58 - 135
1,1,1,2-Tetrachloroethane	ND		43.9	45.5		ug/Kg		104	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		43.9	39.9		ug/Kg		91	70 - 131
Tetrachloroethene	ND		43.9	44.7		ug/Kg		102	67 - 130
Toluene	ND		43.9	41.2		ug/Kg		94	70 - 130
1,2,3-Trichlorobenzene	ND		43.9	42.4		ug/Kg		97	58 - 138
1,2,4-Trichlorobenzene	ND		43.9	42.8		ug/Kg		97	49 - 144
1,1,1-Trichloroethane	ND		43.9	47.0		ug/Kg		107	57 - 133
1,1,2-Trichloroethane	ND		43.9	43.3		ug/Kg		99	68 - 132
Trichlorofluoromethane	ND		43.9	46.7		ug/Kg		106	61 - 130
1,2,3-Trichloropropane	ND		43.9	43.4		ug/Kg		99	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		43.9	42.2		ug/Kg		96	52 - 130
1,2,4-Trimethylbenzene	ND		43.9	44.4		ug/Kg		101	64 - 140
1,3,5-Trimethylbenzene	ND		43.9	44.4		ug/Kg		101	67 - 134
Vinyl acetate	ND		43.9	ND		ug/Kg		86	52 - 150
Vinyl chloride	ND		43.9	38.7		ug/Kg		88	62 - 130
m-Xylene & p-Xylene	ND		87.9	84.5		ug/Kg		96	70 - 130
o-Xylene	ND		43.9	44.2		ug/Kg		101	68 - 130
2,2-Dichloropropane	ND		43.9	50.1		ug/Kg		114	63 - 130
Trichloroethene	ND		43.9	43.3		ug/Kg		98	66 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	100		58 - 140

**Lab Sample ID: 720-55397-31 MSD**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: CB8-4**

**Prep Type: Total/NA**

**Prep Batch: 153355**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Methyl tert-butyl ether	ND		44.9	46.1		ug/Kg		103	69 - 130	5	20
Acetone	ND		224	205		ug/Kg		91	37 - 150	3	20
Benzene	ND		44.9	43.4		ug/Kg		97	70 - 130	5	20
Dichlorobromomethane	ND		44.9	46.3		ug/Kg		103	64 - 135	3	20
Bromobenzene	ND		44.9	46.9		ug/Kg		104	70 - 130	7	20
Chlorobromomethane	ND		44.9	47.2		ug/Kg		105	65 - 130	3	20
Bromoform	ND		44.9	45.8		ug/Kg		102	58 - 132	4	20
Bromomethane	ND		44.9	41.4		ug/Kg		92	56 - 130	4	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-31 MSD**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: CB8-4**

**Prep Type: Total/NA**

**Prep Batch: 153355**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	ND		224	209		ug/Kg		93	41 - 150	4	20
n-Butylbenzene	ND		44.9	44.6		ug/Kg		99	60 - 145	1	20
sec-Butylbenzene	ND		44.9	44.9		ug/Kg		100	64 - 137	2	20
tert-Butylbenzene	ND		44.9	46.2		ug/Kg		103	63 - 134	4	20
Carbon disulfide	ND		44.9	33.7		ug/Kg		75	10 - 150	2	20
Carbon tetrachloride	ND		44.9	47.0		ug/Kg		105	54 - 130	4	20
Chlorobenzene	ND		44.9	45.3		ug/Kg		101	70 - 130	4	20
Chloroethane	ND		44.9	40.4		ug/Kg		90	61 - 130	1	20
Chloroform	ND		44.9	47.8		ug/Kg		107	67 - 130	5	20
Chloromethane	ND		44.9	34.7		ug/Kg		77	50 - 131	4	20
2-Chlorotoluene	ND		44.9	47.4		ug/Kg		106	70 - 130	5	20
4-Chlorotoluene	ND		44.9	45.8		ug/Kg		102	70 - 130	6	20
Chlorodibromomethane	ND		44.9	48.8		ug/Kg		109	60 - 141	4	20
1,2-Dichlorobenzene	ND		44.9	45.8		ug/Kg		102	70 - 130	4	20
1,3-Dichlorobenzene	ND		44.9	47.0		ug/Kg		105	70 - 130	5	20
1,4-Dichlorobenzene	ND		44.9	46.0		ug/Kg		102	70 - 130	5	20
1,3-Dichloropropane	ND		44.9	44.9		ug/Kg		100	70 - 130	4	20
1,1-Dichloropropene	ND		44.9	46.8		ug/Kg		104	67 - 130	3	20
1,2-Dibromo-3-Chloropropane	ND		44.9	37.8		ug/Kg		84	57 - 130	2	20
Ethylene Dibromide	ND		44.9	45.6		ug/Kg		102	66 - 135	4	20
Dibromomethane	ND		44.9	46.6		ug/Kg		104	65 - 131	4	20
Dichlorodifluoromethane	ND		44.9	39.3		ug/Kg		88	38 - 130	4	20
1,1-Dichloroethane	ND		44.9	44.0		ug/Kg		98	67 - 130	4	20
1,2-Dichloroethane	ND		44.9	45.0		ug/Kg		100	70 - 130	4	20
1,1-Dichloroethene	ND		44.9	41.3		ug/Kg		92	64 - 130	5	20
cis-1,2-Dichloroethene	ND		44.9	44.6		ug/Kg		99	68 - 131	5	20
trans-1,2-Dichloroethene	ND		44.9	44.7		ug/Kg		100	70 - 130	3	20
1,2-Dichloropropane	ND		44.9	42.7		ug/Kg		95	65 - 133	6	20
cis-1,3-Dichloropropene	ND		44.9	47.3		ug/Kg		105	46 - 139	5	20
trans-1,3-Dichloropropene	ND		44.9	50.6		ug/Kg		113	55 - 131	5	20
Ethylbenzene	ND		44.9	43.7		ug/Kg		97	65 - 130	4	20
Hexachlorobutadiene	ND		44.9	41.3		ug/Kg		92	58 - 132	2	20
2-Hexanone	ND		224	182		ug/Kg		81	44 - 150	0	20
Isopropylbenzene	ND		44.9	45.8		ug/Kg		102	65 - 130	3	20
4-Isopropyltoluene	ND		44.9	45.8		ug/Kg		102	69 - 134	4	20
Methylene Chloride	ND		44.9	41.5		ug/Kg		92	63 - 130	5	20
4-Methyl-2-pentanone (MIBK)	ND		224	186		ug/Kg		83	51 - 140	3	20
Naphthalene	ND		44.9	39.3		ug/Kg		87	45 - 146	0	20
N-Propylbenzene	ND		44.9	45.4		ug/Kg		101	70 - 130	5	20
Styrene	ND		44.9	45.3		ug/Kg		101	58 - 135	3	20
1,1,1,2-Tetrachloroethane	ND		44.9	47.4		ug/Kg		106	64 - 133	4	20
1,1,1,2-Tetrachloroethane	ND		44.9	41.9		ug/Kg		93	70 - 131	5	20
Tetrachloroethene	ND		44.9	45.7		ug/Kg		102	67 - 130	2	20
Toluene	ND		44.9	43.3		ug/Kg		96	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		44.9	41.7		ug/Kg		93	58 - 138	2	20
1,2,4-Trichlorobenzene	ND		44.9	42.6		ug/Kg		95	49 - 144	1	20
1,1,1-Trichloroethane	ND		44.9	48.7		ug/Kg		109	57 - 133	4	20
1,1,2-Trichloroethane	ND		44.9	44.8		ug/Kg		100	68 - 132	3	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-31 MSD**

**Matrix: Solid**

**Analysis Batch: 153343**

**Client Sample ID: CB8-4**

**Prep Type: Total/NA**

**Prep Batch: 153355**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Trichlorofluoromethane	ND		44.9	47.8		ug/Kg		107	61 - 130	2	20
1,2,3-Trichloropropane	ND		44.9	44.6		ug/Kg		99	62 - 150	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		44.9	42.8		ug/Kg		95	52 - 130	1	20
1,2,4-Trimethylbenzene	ND		44.9	46.4		ug/Kg		103	64 - 140	4	20
1,3,5-Trimethylbenzene	ND		44.9	46.7		ug/Kg		104	67 - 134	5	20
Vinyl acetate	ND		44.9	ND		ug/Kg		89	52 - 150	6	20
Vinyl chloride	ND		44.9	39.5		ug/Kg		88	62 - 130	2	20
m-Xylene & p-Xylene	ND		89.8	87.5		ug/Kg		97	70 - 130	4	20
o-Xylene	ND		44.9	45.6		ug/Kg		102	68 - 130	3	20
2,2-Dichloropropane	ND		44.9	53.0		ug/Kg		118	63 - 130	6	20
Trichloroethene	ND		44.9	44.6		ug/Kg		99	66 - 130	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	101		58 - 140

**Lab Sample ID: 720-55397-32 MS**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: CB8-6**

**Prep Type: Total/NA**

**Prep Batch: 153360**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Methyl tert-butyl ether	ND		49.5	45.2		ug/Kg		91	69 - 130		
Acetone	ND		248	242		ug/Kg		85	37 - 150		
Benzene	ND		49.5	44.6		ug/Kg		90	70 - 130		
Dichlorobromomethane	ND		49.5	45.8		ug/Kg		92	64 - 135		
Bromobenzene	ND		49.5	49.1		ug/Kg		99	70 - 130		
Chlorobromomethane	ND		49.5	49.8		ug/Kg		101	65 - 130		
Bromoform	ND		49.5	51.2		ug/Kg		103	58 - 132		
Bromomethane	ND		49.5	41.5		ug/Kg		84	56 - 130		
2-Butanone (MEK)	ND		248	205		ug/Kg		83	41 - 150		
n-Butylbenzene	ND		49.5	46.9		ug/Kg		95	60 - 145		
sec-Butylbenzene	ND		49.5	46.7		ug/Kg		94	64 - 137		
tert-Butylbenzene	ND		49.5	49.6		ug/Kg		100	63 - 134		
Carbon disulfide	ND		49.5	35.1		ug/Kg		71	10 - 150		
Carbon tetrachloride	ND		49.5	45.9		ug/Kg		93	54 - 130		
Chlorobenzene	ND		49.5	48.7		ug/Kg		98	70 - 130		
Chloroethane	ND		49.5	40.7		ug/Kg		82	61 - 130		
Chloroform	ND		49.5	45.1		ug/Kg		91	67 - 130		
Chloromethane	ND		49.5	36.7		ug/Kg		74	50 - 131		
2-Chlorotoluene	ND		49.5	47.0		ug/Kg		95	70 - 130		
4-Chlorotoluene	ND		49.5	45.2		ug/Kg		91	70 - 130		
Chlorodibromomethane	ND		49.5	52.1		ug/Kg		105	60 - 141		
1,2-Dichlorobenzene	ND		49.5	50.0		ug/Kg		101	70 - 130		
1,3-Dichlorobenzene	ND		49.5	51.0		ug/Kg		103	70 - 130		
1,4-Dichlorobenzene	ND		49.5	51.1		ug/Kg		103	70 - 130		
1,3-Dichloropropane	ND		49.5	43.9		ug/Kg		89	70 - 130		

TestAmerica Pleasanton



# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-32 MS**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: CB8-6**

**Prep Type: Total/NA**

**Prep Batch: 153360**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
1,1-Dichloropropene	ND		49.5	44.4		ug/Kg		90	67 - 130
1,2-Dibromo-3-Chloropropane	ND		49.5	44.8		ug/Kg		91	57 - 130
Ethylene Dibromide	ND		49.5	47.6		ug/Kg		96	66 - 135
Dibromomethane	ND		49.5	47.5		ug/Kg		96	65 - 131
Dichlorodifluoromethane	ND		49.5	39.9		ug/Kg		81	38 - 130
1,1-Dichloroethane	ND		49.5	43.0		ug/Kg		87	67 - 130
1,2-Dichloroethane	ND		49.5	38.7		ug/Kg		78	70 - 130
1,1-Dichloroethene	ND		49.5	46.1		ug/Kg		93	64 - 130
cis-1,2-Dichloroethene	ND		49.5	42.1		ug/Kg		85	68 - 131
trans-1,2-Dichloroethene	ND		49.5	46.7		ug/Kg		94	70 - 130
1,2-Dichloropropane	ND		49.5	42.8		ug/Kg		86	65 - 133
cis-1,3-Dichloropropene	ND		49.5	44.9		ug/Kg		91	46 - 139
trans-1,3-Dichloropropene	ND		49.5	43.0		ug/Kg		87	55 - 131
Ethylbenzene	ND		49.5	47.5		ug/Kg		96	65 - 130
Hexachlorobutadiene	ND		49.5	44.6		ug/Kg		90	58 - 132
2-Hexanone	ND		248	182		ug/Kg		74	44 - 150
Isopropylbenzene	ND		49.5	48.5		ug/Kg		98	65 - 130
4-Isopropyltoluene	ND		49.5	50.3		ug/Kg		102	69 - 134
Methylene Chloride	ND		49.5	44.3		ug/Kg		89	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		248	189		ug/Kg		76	51 - 140
Naphthalene	ND		49.5	47.3		ug/Kg		96	45 - 146
N-Propylbenzene	ND		49.5	46.5		ug/Kg		94	70 - 130
Styrene	ND		49.5	47.1		ug/Kg		95	58 - 135
1,1,1,2-Tetrachloroethane	ND		49.5	49.9		ug/Kg		101	64 - 133
1,1,1,2-Tetrachloroethane	ND		49.5	42.1		ug/Kg		85	70 - 131
Tetrachloroethene	ND		49.5	52.4		ug/Kg		106	67 - 130
Toluene	ND		49.5	45.4		ug/Kg		92	70 - 130
1,2,3-Trichlorobenzene	ND		49.5	48.0		ug/Kg		97	58 - 138
1,2,4-Trichlorobenzene	ND		49.5	48.9		ug/Kg		99	49 - 144
1,1,1-Trichloroethane	ND		49.5	47.1		ug/Kg		95	57 - 133
1,1,2-Trichloroethane	ND		49.5	46.6		ug/Kg		94	68 - 132
Trichlorofluoromethane	ND		49.5	43.0		ug/Kg		87	61 - 130
1,2,3-Trichloropropane	ND		49.5	41.3		ug/Kg		84	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49.5	49.6		ug/Kg		100	52 - 130
1,2,4-Trimethylbenzene	ND		49.5	47.8		ug/Kg		97	64 - 140
1,3,5-Trimethylbenzene	ND		49.5	47.7		ug/Kg		96	67 - 134
Vinyl acetate	ND		49.5	ND		ug/Kg		79	52 - 150
Vinyl chloride	ND		49.5	41.7		ug/Kg		84	62 - 130
m-Xylene & p-Xylene	ND		99.0	94.2		ug/Kg		95	70 - 130
o-Xylene	ND		49.5	48.3		ug/Kg		98	68 - 130
2,2-Dichloropropane	ND		49.5	46.3		ug/Kg		94	63 - 130
Trichloroethene	ND		49.5	50.6		ug/Kg		102	66 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	93		45 - 131
1,2-Dichloroethane-d4 (Surr)	80		60 - 140
Toluene-d8 (Surr)	99		58 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-32 MSD**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: CB8-6**

**Prep Type: Total/NA**

**Prep Batch: 153360**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
	Result			Result					Limits		Limit
Methyl tert-butyl ether	ND		46.7	41.4		ug/Kg		89	69 - 130	9	20
Acetone	ND		234	236		ug/Kg		88	37 - 150	2	20
Benzene	ND		46.7	42.0		ug/Kg		90	70 - 130	6	20
Dichlorobromomethane	ND		46.7	42.8		ug/Kg		92	64 - 135	7	20
Bromobenzene	ND		46.7	46.8		ug/Kg		100	70 - 130	5	20
Chlorobromomethane	ND		46.7	46.4		ug/Kg		99	65 - 130	7	20
Bromoform	ND		46.7	47.6		ug/Kg		102	58 - 132	7	20
Bromomethane	ND		46.7	38.3		ug/Kg		82	56 - 130	8	20
2-Butanone (MEK)	ND		234	187		ug/Kg		80	41 - 150	9	20
n-Butylbenzene	ND		46.7	45.0		ug/Kg		96	60 - 145	4	20
sec-Butylbenzene	ND		46.7	44.8		ug/Kg		96	64 - 137	4	20
tert-Butylbenzene	ND		46.7	48.1		ug/Kg		103	63 - 134	3	20
Carbon disulfide	ND		46.7	33.5		ug/Kg		72	10 - 150	5	20
Carbon tetrachloride	ND		46.7	44.0		ug/Kg		94	54 - 130	4	20
Chlorobenzene	ND		46.7	45.8		ug/Kg		98	70 - 130	6	20
Chloroethane	ND		46.7	38.0		ug/Kg		81	61 - 130	7	20
Chloroform	ND		46.7	42.4		ug/Kg		91	67 - 130	6	20
Chloromethane	ND		46.7	34.6		ug/Kg		74	50 - 131	6	20
2-Chlorotoluene	ND		46.7	44.7		ug/Kg		96	70 - 130	5	20
4-Chlorotoluene	ND		46.7	42.9		ug/Kg		92	70 - 130	5	20
Chlorodibromomethane	ND		46.7	47.6		ug/Kg		102	60 - 141	9	20
1,2-Dichlorobenzene	ND		46.7	46.9		ug/Kg		100	70 - 130	6	20
1,3-Dichlorobenzene	ND		46.7	47.7		ug/Kg		102	70 - 130	7	20
1,4-Dichlorobenzene	ND		46.7	48.3		ug/Kg		103	70 - 130	6	20
1,3-Dichloropropane	ND		46.7	40.3		ug/Kg		86	70 - 130	9	20
1,1-Dichloropropene	ND		46.7	42.0		ug/Kg		90	67 - 130	6	20
1,2-Dibromo-3-Chloropropane	ND		46.7	41.6		ug/Kg		89	57 - 130	8	20
Ethylene Dibromide	ND		46.7	43.9		ug/Kg		94	66 - 135	8	20
Dibromomethane	ND		46.7	43.5		ug/Kg		93	65 - 131	9	20
Dichlorodifluoromethane	ND		46.7	37.1		ug/Kg		79	38 - 130	7	20
1,1-Dichloroethane	ND		46.7	40.5		ug/Kg		87	67 - 130	6	20
1,2-Dichloroethane	ND		46.7	36.1		ug/Kg		77	70 - 130	7	20
1,1-Dichloroethene	ND		46.7	42.8		ug/Kg		92	64 - 130	7	20
cis-1,2-Dichloroethene	ND		46.7	39.7		ug/Kg		85	68 - 131	6	20
trans-1,2-Dichloroethene	ND		46.7	43.9		ug/Kg		94	70 - 130	6	20
1,2-Dichloropropane	ND		46.7	40.0		ug/Kg		86	65 - 133	7	20
cis-1,3-Dichloropropene	ND		46.7	41.9		ug/Kg		90	46 - 139	7	20
trans-1,3-Dichloropropene	ND		46.7	39.7		ug/Kg		85	55 - 131	8	20
Ethylbenzene	ND		46.7	44.7		ug/Kg		96	65 - 130	6	20
Hexachlorobutadiene	ND		46.7	43.0		ug/Kg		92	58 - 132	4	20
2-Hexanone	ND		234	166		ug/Kg		71	44 - 150	9	20
Isopropylbenzene	ND		46.7	45.9		ug/Kg		98	65 - 130	6	20
4-Isopropyltoluene	ND		46.7	48.4		ug/Kg		103	69 - 134	4	20
Methylene Chloride	ND		46.7	41.3		ug/Kg		88	63 - 130	7	20
4-Methyl-2-pentanone (MIBK)	ND		234	173		ug/Kg		74	51 - 140	9	20
Naphthalene	ND		46.7	45.2		ug/Kg		97	45 - 146	5	20
N-Propylbenzene	ND		46.7	44.7		ug/Kg		96	70 - 130	4	20
Styrene	ND		46.7	43.6		ug/Kg		93	58 - 135	8	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-32 MSD**

**Matrix: Solid**

**Analysis Batch: 153344**

**Client Sample ID: CB8-6**

**Prep Type: Total/NA**

**Prep Batch: 153360**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1,1,2-Tetrachloroethane	ND		46.7	47.1		ug/Kg		101	64 - 133	6	20
1,1,2,2-Tetrachloroethane	ND		46.7	39.2		ug/Kg		84	70 - 131	7	20
Tetrachloroethene	ND		46.7	49.3		ug/Kg		106	67 - 130	6	20
Toluene	ND		46.7	43.4		ug/Kg		93	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		46.7	44.0		ug/Kg		94	58 - 138	9	20
1,2,4-Trichlorobenzene	ND		46.7	44.8		ug/Kg		96	49 - 144	9	20
1,1,1-Trichloroethane	ND		46.7	44.7		ug/Kg		96	57 - 133	5	20
1,1,2-Trichloroethane	ND		46.7	43.1		ug/Kg		92	68 - 132	8	20
Trichlorofluoromethane	ND		46.7	42.0		ug/Kg		90	61 - 130	2	20
1,2,3-Trichloropropane	ND		46.7	39.2		ug/Kg		84	62 - 150	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		46.7	46.3		ug/Kg		99	52 - 130	7	20
1,2,4-Trimethylbenzene	ND		46.7	45.2		ug/Kg		97	64 - 140	6	20
1,3,5-Trimethylbenzene	ND		46.7	45.7		ug/Kg		98	67 - 134	4	20
Vinyl acetate	ND		46.7	ND		ug/Kg		69	52 - 150	19	20
Vinyl chloride	ND		46.7	39.5		ug/Kg		85	62 - 130	5	20
m-Xylene & p-Xylene	ND		93.5	88.5		ug/Kg		95	70 - 130	6	20
o-Xylene	ND		46.7	45.4		ug/Kg		97	68 - 130	6	20
2,2-Dichloropropane	ND		46.7	44.2		ug/Kg		95	63 - 130	5	20
Trichloroethene	ND		46.7	47.6		ug/Kg		102	66 - 130	6	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	92		45 - 131
1,2-Dichloroethane-d4 (Surr)	79		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: MB 720-153393/4**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/12/14 10:36	1
Acetone	ND		50		ug/Kg			02/12/14 10:36	1
Benzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/12/14 10:36	1
Bromobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Chlorobromomethane	ND		20		ug/Kg			02/12/14 10:36	1
Bromoform	ND		5.0		ug/Kg			02/12/14 10:36	1
Bromomethane	ND		10		ug/Kg			02/12/14 10:36	1
2-Butanone (MEK)	ND		50		ug/Kg			02/12/14 10:36	1
n-Butylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Carbon disulfide	ND		5.0		ug/Kg			02/12/14 10:36	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/12/14 10:36	1
Chlorobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Chloroethane	ND		10		ug/Kg			02/12/14 10:36	1
Chloroform	ND		5.0		ug/Kg			02/12/14 10:36	1

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: MB 720-153393/4

Matrix: Solid

Analysis Batch: 153393

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	ND		10		ug/Kg			02/12/14 10:36	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/12/14 10:36	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/12/14 10:36	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1-Dichloropropene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/12/14 10:36	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/12/14 10:36	1
Dibromomethane	ND		10		ug/Kg			02/12/14 10:36	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/12/14 10:36	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/12/14 10:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/12/14 10:36	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/12/14 10:36	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/12/14 10:36	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/12/14 10:36	1
Ethylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Hexachlorobutadiene	ND		5.0		ug/Kg			02/12/14 10:36	1
2-Hexanone	ND		50		ug/Kg			02/12/14 10:36	1
Isopropylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/12/14 10:36	1
Methylene Chloride	ND		10		ug/Kg			02/12/14 10:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/12/14 10:36	1
Naphthalene	ND		10		ug/Kg			02/12/14 10:36	1
N-Propylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Styrene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
Tetrachloroethene	ND		5.0		ug/Kg			02/12/14 10:36	1
Toluene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/12/14 10:36	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/12/14 10:36	1
Vinyl acetate	ND		50		ug/Kg			02/12/14 10:36	1
Vinyl chloride	ND		5.0		ug/Kg			02/12/14 10:36	1
Xylenes, Total	ND		10		ug/Kg			02/12/14 10:36	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/12/14 10:36	1

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153393/4**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0		ug/Kg			02/12/14 10:36	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131					02/12/14 10:36	1
1,2-Dichloroethane-d4 (Surr)	81		60 - 140					02/12/14 10:36	1
Toluene-d8 (Surr)	105		58 - 140					02/12/14 10:36	1

**Lab Sample ID: LCS 720-153393/9**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	43.6		ug/Kg		87	70 - 144
Acetone	250	232		ug/Kg		93	30 - 162
Benzene	50.0	42.7		ug/Kg		85	70 - 130
Dichlorobromomethane	50.0	44.2		ug/Kg		88	70 - 131
Bromobenzene	50.0	45.5		ug/Kg		91	70 - 130
Chlorobromomethane	50.0	47.3		ug/Kg		95	70 - 130
Bromoform	50.0	51.3		ug/Kg		103	59 - 158
Bromomethane	50.0	41.6		ug/Kg		83	59 - 132
2-Butanone (MEK)	250	213		ug/Kg		85	53 - 124
n-Butylbenzene	50.0	45.7		ug/Kg		91	70 - 142
sec-Butylbenzene	50.0	44.2		ug/Kg		88	70 - 136
tert-Butylbenzene	50.0	46.5		ug/Kg		93	70 - 130
Carbon disulfide	50.0	34.5		ug/Kg		69	60 - 140
Carbon tetrachloride	50.0	45.6		ug/Kg		91	70 - 138
Chlorobenzene	50.0	47.4		ug/Kg		95	70 - 130
Chloroethane	50.0	40.8		ug/Kg		82	65 - 130
Chloroform	50.0	43.1		ug/Kg		86	77 - 127
Chloromethane	50.0	37.5		ug/Kg		75	55 - 140
2-Chlorotoluene	50.0	43.9		ug/Kg		88	70 - 138
4-Chlorotoluene	50.0	42.8		ug/Kg		86	70 - 136
Chlorodibromomethane	50.0	50.1		ug/Kg		100	70 - 146
1,2-Dichlorobenzene	50.0	47.3		ug/Kg		95	70 - 130
1,3-Dichlorobenzene	50.0	48.8		ug/Kg		98	70 - 131
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 130
1,3-Dichloropropane	50.0	42.4		ug/Kg		85	70 - 140
1,1-Dichloropropene	50.0	43.4		ug/Kg		87	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	43.9		ug/Kg		88	60 - 145
Ethylene Dibromide	50.0	46.8		ug/Kg		94	70 - 140
Dibromomethane	50.0	46.0		ug/Kg		92	70 - 139
Dichlorodifluoromethane	50.0	40.6		ug/Kg		81	37 - 158
1,1-Dichloroethane	50.0	41.2		ug/Kg		82	70 - 130
1,2-Dichloroethane	50.0	37.9		ug/Kg		76	70 - 130
1,1-Dichloroethene	50.0	44.7		ug/Kg		89	76 - 122
cis-1,2-Dichloroethene	50.0	40.1		ug/Kg		80	70 - 138
trans-1,2-Dichloroethene	50.0	44.5		ug/Kg		89	67 - 130
1,2-Dichloropropane	50.0	40.8		ug/Kg		82	73 - 127

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153393/9**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	43.3		ug/Kg		87	68 - 147
trans-1,3-Dichloropropene	50.0	41.6		ug/Kg		83	70 - 136
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 137
Hexachlorobutadiene	50.0	43.6		ug/Kg		87	70 - 132
2-Hexanone	250	192		ug/Kg		77	44 - 133
Isopropylbenzene	50.0	47.2		ug/Kg		94	88 - 128
4-Isopropyltoluene	50.0	48.2		ug/Kg		96	70 - 133
Methylene Chloride	50.0	42.4		ug/Kg		85	70 - 134
4-Methyl-2-pentanone (MIBK)	250	197		ug/Kg		79	60 - 160
Naphthalene	50.0	46.4		ug/Kg		93	60 - 147
N-Propylbenzene	50.0	44.0		ug/Kg		88	70 - 130
Styrene	50.0	45.8		ug/Kg		92	70 - 130
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	70 - 130
1,1,1,2-Tetrachloroethane	50.0	40.7		ug/Kg		81	70 - 146
Tetrachloroethene	50.0	50.9		ug/Kg		102	70 - 132
Toluene	50.0	43.9		ug/Kg		88	80 - 128
1,2,3-Trichlorobenzene	50.0	47.4		ug/Kg		95	60 - 140
1,2,4-Trichlorobenzene	50.0	48.7		ug/Kg		97	60 - 140
1,1,1-Trichloroethane	50.0	45.5		ug/Kg		91	70 - 130
1,1,2-Trichloroethane	50.0	44.8		ug/Kg		90	70 - 130
Trichlorofluoromethane	50.0	43.3		ug/Kg		87	60 - 140
1,2,3-Trichloropropane	50.0	41.0		ug/Kg		82	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.4		ug/Kg		97	60 - 140
1,2,4-Trimethylbenzene	50.0	44.9		ug/Kg		90	70 - 130
1,3,5-Trimethylbenzene	50.0	44.6		ug/Kg		89	70 - 131
Vinyl acetate	50.0	43.4	J	ug/Kg		87	38 - 176
Vinyl chloride	50.0	40.7		ug/Kg		81	58 - 125
m-Xylene & p-Xylene	100	92.0		ug/Kg		92	70 - 146
o-Xylene	50.0	47.0		ug/Kg		94	70 - 140
2,2-Dichloropropane	50.0	43.7		ug/Kg		87	70 - 162
Trichloroethene	50.0	48.3		ug/Kg		97	70 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	80		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: LCSD 720-153393/10**

**Matrix: Solid**

**Analysis Batch: 153393**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Methyl tert-butyl ether	50.0	48.4		ug/Kg		97	70 - 144	11	20
Acetone	250	242		ug/Kg		97	30 - 162	4	30
Benzene	50.0	45.8		ug/Kg		92	70 - 130	7	20
Dichlorobromomethane	50.0	48.1		ug/Kg		96	70 - 131	9	20
Bromobenzene	50.0	49.0		ug/Kg		98	70 - 130	7	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: LCSD 720-153393/10

Matrix: Solid

Analysis Batch: 153393

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
							Limits		
Chlorobromomethane	50.0	51.5		ug/Kg		103	70 - 130	9	20
Bromoform	50.0	56.4		ug/Kg		113	59 - 158	9	20
Bromomethane	50.0	42.5		ug/Kg		85	59 - 132	2	20
2-Butanone (MEK)	250	223		ug/Kg		89	53 - 124	5	20
n-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 142	6	20
sec-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 136	7	20
tert-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 130	7	20
Carbon disulfide	50.0	35.4		ug/Kg		71	60 - 140	3	20
Carbon tetrachloride	50.0	49.4		ug/Kg		99	70 - 138	8	20
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130	5	20
Chloroethane	50.0	41.4		ug/Kg		83	65 - 130	1	20
Chloroform	50.0	45.9		ug/Kg		92	77 - 127	6	20
Chloromethane	50.0	38.0		ug/Kg		76	55 - 140	1	20
2-Chlorotoluene	50.0	46.6		ug/Kg		93	70 - 138	6	20
4-Chlorotoluene	50.0	45.8		ug/Kg		92	70 - 136	7	20
Chlorodibromomethane	50.0	56.1		ug/Kg		112	70 - 146	11	20
1,2-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 130	8	20
1,3-Dichlorobenzene	50.0	52.2		ug/Kg		104	70 - 131	7	20
1,4-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130	7	20
1,3-Dichloropropane	50.0	46.5		ug/Kg		93	70 - 140	9	20
1,1-Dichloropropene	50.0	46.1		ug/Kg		92	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/Kg		101	60 - 145	14	20
Ethylene Dibromide	50.0	51.3		ug/Kg		103	70 - 140	9	20
Dibromomethane	50.0	50.5		ug/Kg		101	70 - 139	9	20
Dichlorodifluoromethane	50.0	40.3		ug/Kg		81	37 - 158	1	20
1,1-Dichloroethane	50.0	44.2		ug/Kg		88	70 - 130	7	20
1,2-Dichloroethane	50.0	40.7		ug/Kg		81	70 - 130	7	20
1,1-Dichloroethene	50.0	47.1		ug/Kg		94	76 - 122	5	20
cis-1,2-Dichloroethene	50.0	42.9		ug/Kg		86	70 - 138	7	20
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	67 - 130	6	20
1,2-Dichloropropane	50.0	44.1		ug/Kg		88	73 - 127	8	20
cis-1,3-Dichloropropene	50.0	47.1		ug/Kg		94	68 - 147	8	20
trans-1,3-Dichloropropene	50.0	46.2		ug/Kg		92	70 - 136	10	20
Ethylbenzene	50.0	48.2		ug/Kg		96	80 - 137	4	20
Hexachlorobutadiene	50.0	46.6		ug/Kg		93	70 - 132	7	20
2-Hexanone	250	213		ug/Kg		85	44 - 133	10	20
Isopropylbenzene	50.0	49.6		ug/Kg		99	88 - 128	5	20
4-Isopropyltoluene	50.0	51.5		ug/Kg		103	70 - 133	7	20
Methylene Chloride	50.0	45.3		ug/Kg		91	70 - 134	6	20
4-Methyl-2-pentanone (MIBK)	250	217		ug/Kg		87	60 - 160	10	20
Naphthalene	50.0	51.3		ug/Kg		103	60 - 147	10	20
N-Propylbenzene	50.0	46.8		ug/Kg		94	70 - 130	6	20
Styrene	50.0	48.3		ug/Kg		97	70 - 130	5	20
1,1,1,2-Tetrachloroethane	50.0	51.3		ug/Kg		103	70 - 130	7	20
1,1,1,2,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	70 - 146	11	20
Tetrachloroethene	50.0	53.9		ug/Kg		108	70 - 132	6	20
Toluene	50.0	46.3		ug/Kg		93	80 - 128	5	20
1,2,3-Trichlorobenzene	50.0	51.4		ug/Kg		103	60 - 140	8	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCSD 720-153393/10**

**Matrix: Solid**

**Analysis Batch: 153393**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	52.0		ug/Kg		104	60 - 140	7	20
1,1,1-Trichloroethane	50.0	48.8		ug/Kg		98	70 - 130	7	20
1,1,2-Trichloroethane	50.0	49.7		ug/Kg		99	70 - 130	10	20
Trichlorofluoromethane	50.0	44.8		ug/Kg		90	60 - 140	3	20
1,2,3-Trichloropropane	50.0	45.6		ug/Kg		91	70 - 146	11	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.8		ug/Kg		102	60 - 140	5	20
1,2,4-Trimethylbenzene	50.0	47.7		ug/Kg		95	70 - 130	6	20
1,3,5-Trimethylbenzene	50.0	47.5		ug/Kg		95	70 - 131	6	20
Vinyl acetate	50.0	47.5	J	ug/Kg		95	38 - 176	9	20
Vinyl chloride	50.0	40.6		ug/Kg		81	58 - 125	0	20
m-Xylene & p-Xylene	100	96.4		ug/Kg		96	70 - 146	5	20
o-Xylene	50.0	49.2		ug/Kg		98	70 - 140	5	20
2,2-Dichloropropane	50.0	46.9		ug/Kg		94	70 - 162	7	20
Trichloroethene	50.0	51.8		ug/Kg		104	70 - 133	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		60 - 140
Toluene-d8 (Surr)	99		58 - 140

**Lab Sample ID: 720-55397-53 MS**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: CB12-14-14.5**

**Prep Type: Total/NA**

**Prep Batch: 153430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND		47.4	48.0		ug/Kg		101	69 - 130
Acetone	ND		237	304		ug/Kg		111	37 - 150
Benzene	ND		47.4	40.2		ug/Kg		85	70 - 130
Dichlorobromomethane	ND		47.4	44.4		ug/Kg		94	64 - 135
Bromobenzene	ND		47.4	48.1		ug/Kg		101	70 - 130
Chlorobromomethane	ND		47.4	49.4		ug/Kg		104	65 - 130
Bromoform	ND		47.4	56.4		ug/Kg		119	58 - 132
Bromomethane	ND		47.4	38.0		ug/Kg		80	56 - 130
2-Butanone (MEK)	ND		237	237		ug/Kg		100	41 - 150
n-Butylbenzene	ND		47.4	33.8		ug/Kg		71	60 - 145
sec-Butylbenzene	ND		47.4	35.8		ug/Kg		75	64 - 137
tert-Butylbenzene	ND		47.4	40.6		ug/Kg		86	63 - 134
Carbon disulfide	ND		47.4	28.6		ug/Kg		60	10 - 150
Carbon tetrachloride	ND		47.4	37.7		ug/Kg		79	54 - 130
Chlorobenzene	ND		47.4	43.1		ug/Kg		91	70 - 130
Chloroethane	ND		47.4	35.9		ug/Kg		76	61 - 130
Chloroform	ND		47.4	41.8		ug/Kg		88	67 - 130
Chloromethane	ND		47.4	33.3		ug/Kg		70	50 - 131
2-Chlorotoluene	ND		47.4	41.9		ug/Kg		88	70 - 130
4-Chlorotoluene	ND		47.4	41.0		ug/Kg		86	70 - 130
Chlorodibromomethane	ND		47.4	51.5		ug/Kg		108	60 - 141
1,2-Dichlorobenzene	ND		47.4	45.2		ug/Kg		95	70 - 130

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-53 MS**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: CB12-14-14.5**

**Prep Type: Total/NA**

**Prep Batch: 153430**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,3-Dichlorobenzene	ND		47.4	44.5		ug/Kg		94	70 - 130
1,4-Dichlorobenzene	ND		47.4	45.6		ug/Kg		96	70 - 130
1,3-Dichloropropane	ND		47.4	44.4		ug/Kg		94	70 - 130
1,1-Dichloropropene	ND		47.4	35.9		ug/Kg		76	67 - 130
1,2-Dibromo-3-Chloropropane	ND		47.4	54.4		ug/Kg		115	57 - 130
Ethylene Dibromide	ND		47.4	48.7		ug/Kg		103	66 - 135
Dibromomethane	ND		47.4	48.5		ug/Kg		102	65 - 131
Dichlorodifluoromethane	ND		47.4	32.2		ug/Kg		68	38 - 130
1,1-Dichloroethane	ND		47.4	39.3		ug/Kg		83	67 - 130
1,2-Dichloroethane	ND		47.4	39.5		ug/Kg		83	70 - 130
1,1-Dichloroethene	ND		47.4	38.9		ug/Kg		82	64 - 130
cis-1,2-Dichloroethene	ND		47.4	40.6		ug/Kg		82	68 - 131
trans-1,2-Dichloroethene	ND		47.4	41.0		ug/Kg		86	70 - 130
1,2-Dichloropropane	ND		47.4	40.9		ug/Kg		86	65 - 133
cis-1,3-Dichloropropene	ND		47.4	43.7		ug/Kg		92	46 - 139
trans-1,3-Dichloropropene	ND		47.4	42.7		ug/Kg		90	55 - 131
Ethylbenzene	5.8		47.4	44.2		ug/Kg		81	65 - 130
Hexachlorobutadiene	ND		47.4	25.0	F1	ug/Kg		53	58 - 132
2-Hexanone	ND		237	211		ug/Kg		89	44 - 150
Isopropylbenzene	ND		47.4	37.8		ug/Kg		80	65 - 130
4-Isopropyltoluene	ND		47.4	38.8		ug/Kg		82	69 - 134
Methylene Chloride	ND		47.4	42.6		ug/Kg		90	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		237	215		ug/Kg		91	51 - 140
Naphthalene	ND		47.4	42.1		ug/Kg		89	45 - 146
N-Propylbenzene	ND		47.4	39.5		ug/Kg		83	70 - 130
Styrene	ND		47.4	40.4		ug/Kg		84	58 - 135
1,1,1,2-Tetrachloroethane	ND		47.4	49.5		ug/Kg		102	64 - 133
1,1,1,2,2-Tetrachloroethane	ND		47.4	50.1		ug/Kg		106	70 - 131
Tetrachloroethene	1600		47.4	1920	E 4	ug/Kg		650	67 - 130
Toluene	ND		47.4	41.0		ug/Kg		86	70 - 130
1,2,3-Trichlorobenzene	ND		47.4	32.9		ug/Kg		69	58 - 138
1,2,4-Trichlorobenzene	ND		47.4	34.2		ug/Kg		72	49 - 144
1,1,1-Trichloroethane	ND		47.4	39.2		ug/Kg		83	57 - 133
1,1,2-Trichloroethane	ND		47.4	47.6		ug/Kg		100	68 - 132
Trichlorofluoromethane	ND		47.4	34.2		ug/Kg		72	61 - 130
1,2,3-Trichloropropane	ND		47.4	50.9		ug/Kg		107	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		47.4	38.4		ug/Kg		81	52 - 130
1,2,4-Trimethylbenzene	ND		47.4	40.8		ug/Kg		86	64 - 140
1,3,5-Trimethylbenzene	ND		47.4	40.6		ug/Kg		86	67 - 134
Vinyl acetate	ND		47.4	ND		ug/Kg		82	52 - 150
Vinyl chloride	ND		47.4	33.4		ug/Kg		70	62 - 130
m-Xylene & p-Xylene	26		94.9	99.0		ug/Kg		77	70 - 130
o-Xylene	9.0		47.4	48.4		ug/Kg		83	68 - 130
2,2-Dichloropropane	ND		47.4	37.8		ug/Kg		80	63 - 130
Trichloroethene	11		47.4	57.3		ug/Kg		98	66 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-53 MS**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: CB12-14-14.5**

**Prep Type: Total/NA**

**Prep Batch: 153430**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	89		45 - 131
1,2-Dichloroethane-d4 (Surr)	92		60 - 140
Toluene-d8 (Surr)	98		58 - 140

**Lab Sample ID: 720-55397-53 MSD**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: CB12-14-14.5**

**Prep Type: Total/NA**

**Prep Batch: 153430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Methyl tert-butyl ether	ND		45.3	47.8		ug/Kg		106	69 - 130	0	20	
Acetone	ND		226	289		ug/Kg		109	37 - 150	5	20	
Benzene	ND		45.3	40.8		ug/Kg		90	70 - 130	2	20	
Dichlorobromomethane	ND		45.3	43.7		ug/Kg		96	64 - 135	2	20	
Bromobenzene	ND		45.3	54.4		ug/Kg		120	70 - 130	12	20	
Chlorobromomethane	ND		45.3	49.3		ug/Kg		109	65 - 130	0	20	
Bromoform	ND		45.3	58.5		ug/Kg		129	58 - 132	4	20	
Bromomethane	ND		45.3	39.6		ug/Kg		87	56 - 130	4	20	
2-Butanone (MEK)	ND		226	230		ug/Kg		102	41 - 150	3	20	
n-Butylbenzene	ND		45.3	33.1		ug/Kg		73	60 - 145	2	20	
sec-Butylbenzene	ND		45.3	36.8		ug/Kg		81	64 - 137	3	20	
tert-Butylbenzene	ND		45.3	42.9		ug/Kg		95	63 - 134	6	20	
Carbon disulfide	ND		45.3	29.8		ug/Kg		66	10 - 150	4	20	
Carbon tetrachloride	ND		45.3	38.4		ug/Kg		85	54 - 130	2	20	
Chlorobenzene	ND		45.3	45.0		ug/Kg		99	70 - 130	4	20	
Chloroethane	ND		45.3	37.5		ug/Kg		83	61 - 130	4	20	
Chloroform	ND		45.3	42.8		ug/Kg		94	67 - 130	2	20	
Chloromethane	ND		45.3	34.6		ug/Kg		76	50 - 131	4	20	
2-Chlorotoluene	ND		45.3	45.9		ug/Kg		101	70 - 130	9	20	
4-Chlorotoluene	ND		45.3	44.2		ug/Kg		98	70 - 130	7	20	
Chlorodibromomethane	ND		45.3	49.3		ug/Kg		109	60 - 141	4	20	
1,2-Dichlorobenzene	ND		45.3	45.3		ug/Kg		100	70 - 130	0	20	
1,3-Dichlorobenzene	ND		45.3	45.7		ug/Kg		101	70 - 130	3	20	
1,4-Dichlorobenzene	ND		45.3	46.1		ug/Kg		102	70 - 130	1	20	
1,3-Dichloropropane	ND		45.3	43.1		ug/Kg		95	70 - 130	3	20	
1,1-Dichloropropene	ND		45.3	36.5		ug/Kg		81	67 - 130	2	20	
1,2-Dibromo-3-Chloropropane	ND		45.3	59.0		ug/Kg		130	57 - 130	8	20	
Ethylene Dibromide	ND		45.3	46.9		ug/Kg		103	66 - 135	4	20	
Dibromomethane	ND		45.3	47.3		ug/Kg		104	65 - 131	3	20	
Dichlorodifluoromethane	ND		45.3	32.9		ug/Kg		73	38 - 130	2	20	
1,1-Dichloroethane	ND		45.3	40.6		ug/Kg		90	67 - 130	3	20	
1,2-Dichloroethane	ND		45.3	39.4		ug/Kg		87	70 - 130	0	20	
1,1-Dichloroethene	ND		45.3	39.6		ug/Kg		87	64 - 130	2	20	
cis-1,2-Dichloroethene	ND		45.3	42.3		ug/Kg		90	68 - 131	4	20	
trans-1,2-Dichloroethene	ND		45.3	42.0		ug/Kg		93	70 - 130	2	20	
1,2-Dichloropropane	ND		45.3	41.0		ug/Kg		90	65 - 133	0	20	
cis-1,3-Dichloropropene	ND		45.3	43.2		ug/Kg		95	46 - 139	1	20	
trans-1,3-Dichloropropene	ND		45.3	41.8		ug/Kg		92	55 - 131	2	20	
Ethylbenzene	5.8		45.3	52.4		ug/Kg		103	65 - 130	17	20	

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-53 MSD**

**Matrix: Solid**

**Analysis Batch: 153393**

**Client Sample ID: CB12-14-14.5**

**Prep Type: Total/NA**

**Prep Batch: 153430**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Hexachlorobutadiene	ND		45.3	22.0	F1	ug/Kg		49	58 - 132	13	20
2-Hexanone	ND		226	204		ug/Kg		90	44 - 150	3	20
Isopropylbenzene	ND		45.3	37.1		ug/Kg		82	65 - 130	2	20
4-Isopropyltoluene	ND		45.3	39.1		ug/Kg		86	69 - 134	1	20
Methylene Chloride	ND		45.3	43.2		ug/Kg		95	63 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		226	208		ug/Kg		92	51 - 140	3	20
Naphthalene	ND		45.3	38.0		ug/Kg		84	45 - 146	10	20
N-Propylbenzene	ND		45.3	42.8		ug/Kg		95	70 - 130	8	20
Styrene	ND		45.3	41.6		ug/Kg		91	58 - 135	3	20
1,1,1,2-Tetrachloroethane	ND		45.3	54.2		ug/Kg		117	64 - 133	9	20
1,1,1,2,2-Tetrachloroethane	ND		45.3	57.9		ug/Kg		128	70 - 131	14	20
Tetrachloroethene	1600		45.3	2530	E 4 F2	ug/Kg		2029	67 - 130	27	20
Toluene	ND		45.3	46.5		ug/Kg		103	70 - 130	12	20
1,2,3-Trichlorobenzene	ND		45.3	26.5	F2	ug/Kg		58	58 - 138	22	20
1,2,4-Trichlorobenzene	ND		45.3	28.6		ug/Kg		63	49 - 144	18	20
1,1,1-Trichloroethane	ND		45.3	40.2		ug/Kg		89	57 - 133	3	20
1,1,1,2-Trichloroethane	ND		45.3	46.1		ug/Kg		102	68 - 132	3	20
Trichlorofluoromethane	ND		45.3	36.3		ug/Kg		80	61 - 130	6	20
1,2,3-Trichloropropane	ND		45.3	59.6		ug/Kg		132	62 - 150	16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.3	38.5		ug/Kg		85	52 - 130	0	20
1,2,4-Trimethylbenzene	ND		45.3	42.8		ug/Kg		94	64 - 140	5	20
1,3,5-Trimethylbenzene	ND		45.3	42.9		ug/Kg		95	67 - 134	6	20
Vinyl acetate	ND		45.3	ND	F2	ug/Kg		70	52 - 150	21	20
Vinyl chloride	ND		45.3	35.3		ug/Kg		78	62 - 130	5	20
m-Xylene & p-Xylene	26		90.6	130	F2	ug/Kg		116	70 - 130	27	20
o-Xylene	9.0		45.3	58.9		ug/Kg		110	68 - 130	20	20
2,2-Dichloropropane	ND		45.3	39.0		ug/Kg		86	63 - 130	3	20
Trichloroethene	11		45.3	72.7	F1 F2	ug/Kg		136	66 - 130	24	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	87		45 - 131
1,2-Dichloroethane-d4 (Surr)	90		60 - 140
Toluene-d8 (Surr)	95		58 - 140

**Lab Sample ID: MB 720-153453/4**

**Matrix: Solid**

**Analysis Batch: 153453**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	ND		500		ug/Kg			02/13/14 08:44	100
Trichloroethene	ND		500		ug/Kg			02/13/14 08:44	100

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	103		66 - 148		02/13/14 08:44	100
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		02/13/14 08:44	100
Toluene-d8 (Surr)	100		65 - 141		02/13/14 08:44	100

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153453/5**

**Matrix: Solid**

**Analysis Batch: 153453**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	5000	5990		ug/Kg		120	79 - 130
Trichloroethene	5000	5500		ug/Kg		110	69 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		66 - 148
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
Toluene-d8 (Surr)	101		65 - 141

**Lab Sample ID: LCSD 720-153453/6**

**Matrix: Solid**

**Analysis Batch: 153453**

**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
Tetrachloroethene	5000	5830		ug/Kg		117	79 - 130	3	20
Trichloroethene	5000	5440		ug/Kg		109	69 - 129	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		66 - 148
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
Toluene-d8 (Surr)	101		65 - 141

**Lab Sample ID: MB 720-153503/4**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			02/13/14 19:05	1
Acetone	ND		50		ug/Kg			02/13/14 19:05	1
Benzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Dichlorobromomethane	ND		5.0		ug/Kg			02/13/14 19:05	1
Bromobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Chlorobromomethane	ND		20		ug/Kg			02/13/14 19:05	1
Bromoform	ND		5.0		ug/Kg			02/13/14 19:05	1
Bromomethane	ND		10		ug/Kg			02/13/14 19:05	1
2-Butanone (MEK)	ND		50		ug/Kg			02/13/14 19:05	1
n-Butylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
sec-Butylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
tert-Butylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Carbon disulfide	ND		5.0		ug/Kg			02/13/14 19:05	1
Carbon tetrachloride	ND		5.0		ug/Kg			02/13/14 19:05	1
Chlorobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Chloroethane	ND		10		ug/Kg			02/13/14 19:05	1
Chloroform	ND		5.0		ug/Kg			02/13/14 19:05	1
Chloromethane	ND		10		ug/Kg			02/13/14 19:05	1
2-Chlorotoluene	ND		5.0		ug/Kg			02/13/14 19:05	1
4-Chlorotoluene	ND		5.0		ug/Kg			02/13/14 19:05	1
Chlorodibromomethane	ND		5.0		ug/Kg			02/13/14 19:05	1

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: MB 720-153503/4

Matrix: Solid

Analysis Batch: 153503

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichlorobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,3-Dichloropropane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1-Dichloropropene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			02/13/14 19:05	1
Ethylene Dibromide	ND		5.0		ug/Kg			02/13/14 19:05	1
Dibromomethane	ND		10		ug/Kg			02/13/14 19:05	1
Dichlorodifluoromethane	ND		10		ug/Kg			02/13/14 19:05	1
1,1-Dichloroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2-Dichloroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1-Dichloroethene	ND		5.0		ug/Kg			02/13/14 19:05	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			02/13/14 19:05	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2-Dichloropropane	ND		5.0		ug/Kg			02/13/14 19:05	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			02/13/14 19:05	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			02/13/14 19:05	1
Ethylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Hexachlorobutadiene	ND		5.0		ug/Kg			02/13/14 19:05	1
2-Hexanone	ND		50		ug/Kg			02/13/14 19:05	1
Isopropylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
4-Isopropyltoluene	ND		5.0		ug/Kg			02/13/14 19:05	1
Methylene Chloride	ND		10		ug/Kg			02/13/14 19:05	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			02/13/14 19:05	1
Naphthalene	ND		10		ug/Kg			02/13/14 19:05	1
N-Propylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Styrene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
Tetrachloroethene	ND		5.0		ug/Kg			02/13/14 19:05	1
Toluene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
Trichlorofluoromethane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			02/13/14 19:05	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			02/13/14 19:05	1
Vinyl acetate	ND		50		ug/Kg			02/13/14 19:05	1
Vinyl chloride	ND		5.0		ug/Kg			02/13/14 19:05	1
Xylenes, Total	ND		10		ug/Kg			02/13/14 19:05	1
2,2-Dichloropropane	ND		5.0		ug/Kg			02/13/14 19:05	1
Trichloroethene	ND		5.0		ug/Kg			02/13/14 19:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	98		45 - 131		02/13/14 19:05	1

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: MB 720-153503/4**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		60 - 140		02/13/14 19:05	1
Toluene-d8 (Surr)	97		58 - 140		02/13/14 19:05	1

**Lab Sample ID: LCS 720-153503/5**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Methyl tert-butyl ether	50.0	55.3		ug/Kg		111	70 - 144
Acetone	250	282		ug/Kg		113	30 - 162
Benzene	50.0	46.1		ug/Kg		92	70 - 130
Dichlorobromomethane	50.0	55.8		ug/Kg		112	70 - 131
Bromobenzene	50.0	49.9		ug/Kg		100	70 - 130
Chlorobromomethane	50.0	50.1		ug/Kg		100	70 - 130
Bromoform	50.0	54.3		ug/Kg		109	59 - 158
Bromomethane	50.0	49.5		ug/Kg		99	59 - 132
2-Butanone (MEK)	250	292		ug/Kg		117	53 - 124
n-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 142
sec-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 130
Carbon disulfide	50.0	40.0		ug/Kg		80	60 - 140
Carbon tetrachloride	50.0	57.2		ug/Kg		114	70 - 138
Chlorobenzene	50.0	49.1		ug/Kg		98	70 - 130
Chloroethane	50.0	51.8		ug/Kg		104	65 - 130
Chloroform	50.0	50.3		ug/Kg		101	77 - 127
Chloromethane	50.0	47.9		ug/Kg		96	55 - 140
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 138
4-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	52.9		ug/Kg		106	70 - 146
1,2-Dichlorobenzene	50.0	48.9		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
1,3-Dichloropropane	50.0	49.3		ug/Kg		99	70 - 140
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	43.0		ug/Kg		86	60 - 145
Ethylene Dibromide	50.0	52.9		ug/Kg		106	70 - 140
Dibromomethane	50.0	52.9		ug/Kg		106	70 - 139
Dichlorodifluoromethane	50.0	40.2		ug/Kg		80	37 - 158
1,1-Dichloroethane	50.0	50.2		ug/Kg		100	70 - 130
1,2-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 130
1,1-Dichloroethane	50.0	48.7		ug/Kg		97	76 - 122
cis-1,2-Dichloroethane	50.0	50.6		ug/Kg		101	70 - 138
trans-1,2-Dichloroethane	50.0	46.7		ug/Kg		93	67 - 130
1,2-Dichloropropane	50.0	49.8		ug/Kg		100	73 - 127
cis-1,3-Dichloropropene	50.0	55.9		ug/Kg		112	68 - 147
trans-1,3-Dichloropropene	50.0	62.0		ug/Kg		124	70 - 136
Ethylbenzene	50.0	45.2		ug/Kg		90	80 - 137
Hexachlorobutadiene	50.0	43.6		ug/Kg		87	70 - 132

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCS 720-153503/5**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	311		ug/Kg		125	44 - 133
Isopropylbenzene	50.0	48.9		ug/Kg		98	88 - 128
4-Isopropyltoluene	50.0	49.0		ug/Kg		98	70 - 133
Methylene Chloride	50.0	49.0		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	329		ug/Kg		132	60 - 160
Naphthalene	50.0	44.3		ug/Kg		89	60 - 147
N-Propylbenzene	50.0	49.0		ug/Kg		98	70 - 130
Styrene	50.0	52.4		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.0		ug/Kg		112	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/Kg		101	70 - 146
Tetrachloroethene	50.0	49.4		ug/Kg		99	70 - 132
Toluene	50.0	48.8		ug/Kg		98	80 - 128
1,2,3-Trichlorobenzene	50.0	42.9		ug/Kg		86	60 - 140
1,2,4-Trichlorobenzene	50.0	44.8		ug/Kg		90	60 - 140
1,1,1-Trichloroethane	50.0	55.7		ug/Kg		111	70 - 130
1,1,2-Trichloroethane	50.0	51.2		ug/Kg		102	70 - 130
Trichlorofluoromethane	50.0	55.2		ug/Kg		110	60 - 140
1,2,3-Trichloropropane	50.0	50.6		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/Kg		94	60 - 140
1,2,4-Trimethylbenzene	50.0	50.1		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.1		ug/Kg		100	70 - 131
Vinyl acetate	50.0	70.5		ug/Kg		141	38 - 176
Vinyl chloride	50.0	48.7		ug/Kg		97	58 - 125
m-Xylene & p-Xylene	100	93.0		ug/Kg		93	70 - 146
o-Xylene	50.0	48.8		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	58.2		ug/Kg		116	70 - 162
Trichloroethene	50.0	47.3		ug/Kg		95	70 - 133

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

**Lab Sample ID: LCSD 720-153503/6**

**Matrix: Solid**

**Analysis Batch: 153503**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Methyl tert-butyl ether	50.0	55.0		ug/Kg		110	70 - 144	1	20
Acetone	250	290		ug/Kg		116	30 - 162	3	30
Benzene	50.0	45.4		ug/Kg		91	70 - 130	1	20
Dichlorobromomethane	50.0	55.0		ug/Kg		110	70 - 131	1	20
Bromobenzene	50.0	49.6		ug/Kg		99	70 - 130	1	20
Chlorobromomethane	50.0	49.8		ug/Kg		100	70 - 130	1	20
Bromoform	50.0	54.2		ug/Kg		108	59 - 158	0	20
Bromomethane	50.0	49.1		ug/Kg		98	59 - 132	1	20
2-Butanone (MEK)	250	285		ug/Kg		114	53 - 124	2	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: LCSD 720-153503/6

Matrix: Solid

Analysis Batch: 153503

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits		
n-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 142	1	20
sec-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 136	0	20
tert-Butylbenzene	50.0	49.0		ug/Kg		98	70 - 130	0	20
Carbon disulfide	50.0	39.3		ug/Kg		79	60 - 140	2	20
Carbon tetrachloride	50.0	56.6		ug/Kg		113	70 - 138	1	20
Chlorobenzene	50.0	49.0		ug/Kg		98	70 - 130	0	20
Chloroethane	50.0	51.5		ug/Kg		103	65 - 130	1	20
Chloroform	50.0	50.3		ug/Kg		101	77 - 127	0	20
Chloromethane	50.0	48.1		ug/Kg		96	55 - 140	0	20
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 138	0	20
4-Chlorotoluene	50.0	48.8		ug/Kg		98	70 - 136	0	20
Chlorodibromomethane	50.0	52.6		ug/Kg		105	70 - 146	1	20
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 130	0	20
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131	0	20
1,4-Dichlorobenzene	50.0	50.2		ug/Kg		100	70 - 130	1	20
1,3-Dichloropropane	50.0	48.2		ug/Kg		96	70 - 140	2	20
1,1-Dichloropropene	50.0	49.7		ug/Kg		99	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	44.4		ug/Kg		89	60 - 145	3	20
Ethylene Dibromide	50.0	52.3		ug/Kg		105	70 - 140	1	20
Dibromomethane	50.0	51.8		ug/Kg		104	70 - 139	2	20
Dichlorodifluoromethane	50.0	38.9		ug/Kg		78	37 - 158	3	20
1,1-Dichloroethane	50.0	50.1		ug/Kg		100	70 - 130	0	20
1,2-Dichloroethane	50.0	47.7		ug/Kg		95	70 - 130	2	20
1,1-Dichloroethene	50.0	47.5		ug/Kg		95	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	50.1		ug/Kg		100	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	46.2		ug/Kg		92	67 - 130	1	20
1,2-Dichloropropane	50.0	49.2		ug/Kg		98	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	61.2		ug/Kg		122	70 - 136	1	20
Ethylbenzene	50.0	44.6		ug/Kg		89	80 - 137	1	20
Hexachlorobutadiene	50.0	43.8		ug/Kg		88	70 - 132	0	20
2-Hexanone	250	312		ug/Kg		125	44 - 133	0	20
Isopropylbenzene	50.0	48.5		ug/Kg		97	88 - 128	1	20
4-Isopropyltoluene	50.0	48.2		ug/Kg		96	70 - 133	2	20
Methylene Chloride	50.0	47.8		ug/Kg		96	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)	250	320		ug/Kg		128	60 - 160	3	20
Naphthalene	50.0	44.9		ug/Kg		90	60 - 147	1	20
N-Propylbenzene	50.0	49.1		ug/Kg		98	70 - 130	0	20
Styrene	50.0	51.3		ug/Kg		103	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	56.1		ug/Kg		112	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	70 - 146	4	20
Tetrachloroethene	50.0	49.4		ug/Kg		99	70 - 132	0	20
Toluene	50.0	48.3		ug/Kg		97	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	43.1		ug/Kg		86	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	45.2		ug/Kg		90	60 - 140	1	20
1,1,1-Trichloroethane	50.0	55.8		ug/Kg		112	70 - 130	0	20
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	70 - 130	1	20
Trichlorofluoromethane	50.0	51.8		ug/Kg		104	60 - 140	6	20

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: LCSD 720-153503/6**

**Matrix: Solid**

**Analysis Batch: 153503**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,3-Trichloropropane	50.0	50.2		ug/Kg		100	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.6		ug/Kg		91	60 - 140	3	20
1,2,4-Trimethylbenzene	50.0	49.5		ug/Kg		99	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.1		ug/Kg		100	70 - 131	0	20
Vinyl acetate	50.0	61.8		ug/Kg		124	38 - 176	13	20
Vinyl chloride	50.0	49.1		ug/Kg		98	58 - 125	1	20
m-Xylene & p-Xylene	100	91.9		ug/Kg		92	70 - 146	1	20
o-Xylene	50.0	48.5		ug/Kg		97	70 - 140	1	20
2,2-Dichloropropane	50.0	59.4		ug/Kg		119	70 - 162	2	20
Trichloroethene	50.0	47.6		ug/Kg		95	70 - 133	1	20

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

**Lab Sample ID: 720-55397-44 MS**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: CB3-22-22.5**

**Prep Type: Total/NA**

**Prep Batch: 153525**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Methyl tert-butyl ether	ND		48.3	53.9		ug/Kg		112	69 - 130
Acetone	120		241	429		ug/Kg		129	37 - 150
Benzene	ND		48.3	44.6		ug/Kg		93	70 - 130
Dichlorobromomethane	ND		48.3	52.8		ug/Kg		109	64 - 135
Bromobenzene	ND		48.3	55.2		ug/Kg		114	70 - 130
Chlorobromomethane	ND		48.3	48.5		ug/Kg		101	65 - 130
Bromoform	ND		48.3	49.6		ug/Kg		103	58 - 132
Bromomethane	ND		48.3	50.4		ug/Kg		104	56 - 130
2-Butanone (MEK)	ND		241	307		ug/Kg		127	41 - 150
n-Butylbenzene	ND		48.3	42.9		ug/Kg		89	60 - 145
sec-Butylbenzene	ND		48.3	48.5		ug/Kg		101	64 - 137
tert-Butylbenzene	ND		48.3	51.8		ug/Kg		107	63 - 134
Carbon disulfide	ND		48.3	37.6		ug/Kg		78	10 - 150
Carbon tetrachloride	ND		48.3	54.2		ug/Kg		112	54 - 130
Chlorobenzene	ND		48.3	46.4		ug/Kg		96	70 - 130
Chloroethane	ND		48.3	52.2		ug/Kg		108	61 - 130
Chloroform	ND		48.3	49.4		ug/Kg		102	67 - 130
Chloromethane	ND		48.3	49.3		ug/Kg		102	50 - 131
2-Chlorotoluene	ND		48.3	55.2		ug/Kg		114	70 - 130
4-Chlorotoluene	ND		48.3	53.0		ug/Kg		110	70 - 130
Chlorodibromomethane	ND		48.3	48.0		ug/Kg		99	60 - 141
1,2-Dichlorobenzene	ND		48.3	44.5		ug/Kg		92	70 - 130
1,3-Dichlorobenzene	ND		48.3	48.6		ug/Kg		101	70 - 130
1,4-Dichlorobenzene	ND		48.3	47.8		ug/Kg		99	70 - 130
1,3-Dichloropropane	ND		48.3	46.3		ug/Kg		96	70 - 130
1,1-Dichloropropene	ND		48.3	47.2		ug/Kg		98	67 - 130

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# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-44 MS**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: CB3-22-22.5**

**Prep Type: Total/NA**

**Prep Batch: 153525**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dibromo-3-Chloropropane	ND		48.3	48.0		ug/Kg		99	57 - 130
Ethylene Dibromide	ND		48.3	48.5		ug/Kg		100	66 - 135
Dibromomethane	ND		48.3	49.9		ug/Kg		103	65 - 131
Dichlorodifluoromethane	ND		48.3	40.5		ug/Kg		84	38 - 130
1,1-Dichloroethane	ND		48.3	49.5		ug/Kg		103	67 - 130
1,2-Dichloroethane	ND		48.3	47.0		ug/Kg		97	70 - 130
1,1-Dichloroethene	ND		48.3	46.2		ug/Kg		93	64 - 130
cis-1,2-Dichloroethene	ND		48.3	49.3		ug/Kg		102	68 - 131
trans-1,2-Dichloroethene	ND		48.3	45.4		ug/Kg		94	70 - 130
1,2-Dichloropropane	ND		48.3	48.1		ug/Kg		100	65 - 133
cis-1,3-Dichloropropene	ND		48.3	52.4		ug/Kg		109	46 - 139
trans-1,3-Dichloropropene	ND		48.3	56.5		ug/Kg		117	55 - 131
Ethylbenzene	ND		48.3	43.6		ug/Kg		90	65 - 130
Hexachlorobutadiene	ND		48.3	22.9	F1	ug/Kg		48	58 - 132
2-Hexanone	ND		241	296		ug/Kg		123	44 - 150
Isopropylbenzene	ND		48.3	44.2		ug/Kg		92	65 - 130
4-Isopropyltoluene	ND		48.3	47.2		ug/Kg		98	69 - 134
Methylene Chloride	ND		48.3	48.1		ug/Kg		100	63 - 130
4-Methyl-2-pentanone (MIBK)	ND		241	314		ug/Kg		130	51 - 140
Naphthalene	ND		48.3	29.4		ug/Kg		61	45 - 146
N-Propylbenzene	ND		48.3	54.6		ug/Kg		113	70 - 130
Styrene	ND		48.3	46.6		ug/Kg		97	58 - 135
1,1,1,2-Tetrachloroethane	ND		48.3	55.1		ug/Kg		114	64 - 133
1,1,2,2-Tetrachloroethane	ND		48.3	60.1		ug/Kg		125	70 - 131
Tetrachloroethene	6.6		48.3	48.1		ug/Kg		86	67 - 130
Toluene	ND		48.3	48.9		ug/Kg		101	70 - 130
1,2,3-Trichlorobenzene	ND		48.3	20.4	F1	ug/Kg		42	58 - 138
1,2,4-Trichlorobenzene	ND		48.3	24.1		ug/Kg		50	49 - 144
1,1,1-Trichloroethane	ND		48.3	54.1		ug/Kg		112	57 - 133
1,1,2-Trichloroethane	ND		48.3	48.0		ug/Kg		99	68 - 132
Trichlorofluoromethane	ND		48.3	49.4		ug/Kg		102	61 - 130
1,2,3-Trichloropropane	ND		48.3	63.1		ug/Kg		131	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.3	43.9		ug/Kg		91	52 - 130
1,2,4-Trimethylbenzene	ND		48.3	52.5		ug/Kg		109	64 - 140
1,3,5-Trimethylbenzene	ND		48.3	54.3		ug/Kg		112	67 - 134
Vinyl acetate	ND		48.3	ND	F1	ug/Kg		31	52 - 150
Vinyl chloride	ND		48.3	49.3		ug/Kg		102	62 - 130
m-Xylene & p-Xylene	ND		96.5	89.3		ug/Kg		92	70 - 130
o-Xylene	ND		48.3	46.3		ug/Kg		96	68 - 130
2,2-Dichloropropane	ND		48.3	56.3		ug/Kg		117	63 - 130
Trichloroethene	ND		48.3	44.2		ug/Kg		91	66 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	90		45 - 131
1,2-Dichloroethane-d4 (Surr)	96		60 - 140
Toluene-d8 (Surr)	95		58 - 140

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-44 MSD**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: CB3-22-22.5**

**Prep Type: Total/NA**

**Prep Batch: 153525**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result			Result					Limits		
Methyl tert-butyl ether	ND		48.6	51.9		ug/Kg		107	69 - 130	4	20
Acetone	120		243	406		ug/Kg		118	37 - 150	6	20
Benzene	ND		48.6	44.5		ug/Kg		92	70 - 130	0	20
Dichlorobromomethane	ND		48.6	52.0		ug/Kg		107	64 - 135	2	20
Bromobenzene	ND		48.6	57.3		ug/Kg		118	70 - 130	4	20
Chlorobromomethane	ND		48.6	47.5		ug/Kg		98	65 - 130	2	20
Bromoform	ND		48.6	45.7		ug/Kg		94	58 - 132	8	20
Bromomethane	ND		48.6	50.7		ug/Kg		104	56 - 130	0	20
2-Butanone (MEK)	ND		243	270		ug/Kg		111	41 - 150	13	20
n-Butylbenzene	ND		48.6	45.5		ug/Kg		94	60 - 145	6	20
sec-Butylbenzene	ND		48.6	51.9		ug/Kg		107	64 - 137	7	20
tert-Butylbenzene	ND		48.6	55.2		ug/Kg		114	63 - 134	6	20
Carbon disulfide	ND		48.6	37.0		ug/Kg		76	10 - 150	1	20
Carbon tetrachloride	ND		48.6	54.9		ug/Kg		113	54 - 130	1	20
Chlorobenzene	ND		48.6	46.1		ug/Kg		95	70 - 130	1	20
Chloroethane	ND		48.6	53.5		ug/Kg		110	61 - 130	3	20
Chloroform	ND		48.6	49.4		ug/Kg		101	67 - 130	0	20
Chloromethane	ND		48.6	50.0		ug/Kg		103	50 - 131	1	20
2-Chlorotoluene	ND		48.6	58.2		ug/Kg		120	70 - 130	5	20
4-Chlorotoluene	ND		48.6	55.4		ug/Kg		114	70 - 130	4	20
Chlorodibromomethane	ND		48.6	45.9		ug/Kg		94	60 - 141	5	20
1,2-Dichlorobenzene	ND		48.6	43.3		ug/Kg		89	70 - 130	3	20
1,3-Dichlorobenzene	ND		48.6	48.2		ug/Kg		99	70 - 130	1	20
1,4-Dichlorobenzene	ND		48.6	47.3		ug/Kg		97	70 - 130	1	20
1,3-Dichloropropane	ND		48.6	43.8		ug/Kg		90	70 - 130	6	20
1,1-Dichloropropene	ND		48.6	47.9		ug/Kg		98	67 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		48.6	44.6		ug/Kg		92	57 - 130	7	20
Ethylene Dibromide	ND		48.6	44.8		ug/Kg		92	66 - 135	8	20
Dibromomethane	ND		48.6	47.6		ug/Kg		98	65 - 131	5	20
Dichlorodifluoromethane	ND		48.6	40.8		ug/Kg		84	38 - 130	1	20
1,1-Dichloroethane	ND		48.6	50.0		ug/Kg		103	67 - 130	1	20
1,2-Dichloroethane	ND		48.6	45.8		ug/Kg		94	70 - 130	3	20
1,1-Dichloroethene	ND		48.6	46.8		ug/Kg		94	64 - 130	1	20
cis-1,2-Dichloroethene	ND		48.6	49.5		ug/Kg		102	68 - 131	1	20
trans-1,2-Dichloroethene	ND		48.6	45.7		ug/Kg		94	70 - 130	1	20
1,2-Dichloropropane	ND		48.6	47.5		ug/Kg		98	65 - 133	1	20
cis-1,3-Dichloropropene	ND		48.6	50.7		ug/Kg		104	46 - 139	3	20
trans-1,3-Dichloropropene	ND		48.6	53.8		ug/Kg		111	55 - 131	5	20
Ethylbenzene	ND		48.6	43.9		ug/Kg		90	65 - 130	1	20
Hexachlorobutadiene	ND		48.6	25.1	F1	ug/Kg		52	58 - 132	9	20
2-Hexanone	ND		243	262		ug/Kg		108	44 - 150	12	20
Isopropylbenzene	ND		48.6	43.5		ug/Kg		90	65 - 130	2	20
4-Isopropyltoluene	ND		48.6	49.9		ug/Kg		103	69 - 134	6	20
Methylene Chloride	ND		48.6	47.9		ug/Kg		98	63 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		243	286		ug/Kg		117	51 - 140	9	20
Naphthalene	ND		48.6	26.5		ug/Kg		54	45 - 146	11	20
N-Propylbenzene	ND		48.6	58.9		ug/Kg		121	70 - 130	8	20
Styrene	ND		48.6	44.2		ug/Kg		91	58 - 135	5	20

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

**Lab Sample ID: 720-55397-44 MSD**

**Matrix: Solid**

**Analysis Batch: 153503**

**Client Sample ID: CB3-22-22.5**

**Prep Type: Total/NA**

**Prep Batch: 153525**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1,1,2-Tetrachloroethane	ND		48.6	54.1		ug/Kg		111	64 - 133	2	20
1,1,2,2-Tetrachloroethane	ND		48.6	60.2		ug/Kg		124	70 - 131	0	20
Tetrachloroethene	6.6		48.6	48.8		ug/Kg		87	67 - 130	2	20
Toluene	ND		48.6	50.4		ug/Kg		104	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		48.6	18.7	F1	ug/Kg		38	58 - 138	9	20
1,2,4-Trichlorobenzene	ND		48.6	22.9	F1	ug/Kg		47	49 - 144	5	20
1,1,1-Trichloroethane	ND		48.6	55.3		ug/Kg		114	57 - 133	2	20
1,1,2-Trichloroethane	ND		48.6	45.9		ug/Kg		94	68 - 132	4	20
Trichlorofluoromethane	ND		48.6	49.7		ug/Kg		102	61 - 130	1	20
1,2,3-Trichloropropane	ND		48.6	64.6		ug/Kg		133	62 - 150	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.6	44.2		ug/Kg		91	52 - 130	1	20
1,2,4-Trimethylbenzene	ND		48.6	55.3		ug/Kg		114	64 - 140	5	20
1,3,5-Trimethylbenzene	ND		48.6	57.6		ug/Kg		119	67 - 134	6	20
Vinyl acetate	ND		48.6	ND	F1 F2	ug/Kg		16	52 - 150	61	20
Vinyl chloride	ND		48.6	51.3		ug/Kg		106	62 - 130	4	20
m-Xylene & p-Xylene	ND		97.3	89.5		ug/Kg		92	70 - 130	0	20
o-Xylene	ND		48.6	46.2		ug/Kg		95	68 - 130	0	20
2,2-Dichloropropane	ND		48.6	59.2		ug/Kg		122	63 - 130	5	20
Trichloroethene	ND		48.6	44.5		ug/Kg		91	66 - 130	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	84		45 - 131
1,2-Dichloroethane-d4 (Surr)	93		60 - 140
Toluene-d8 (Surr)	94		58 - 140

**Lab Sample ID: MB 720-153537/4**

**Matrix: Solid**

**Analysis Batch: 153537**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	ND		500		ug/Kg			02/14/14 09:30	100
Trichloroethene	ND		500		ug/Kg			02/14/14 09:30	100

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	102		66 - 148		02/14/14 09:30	100
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		02/14/14 09:30	100
Toluene-d8 (Surr)	100		65 - 141		02/14/14 09:30	100

**Lab Sample ID: LCS 720-153537/5**

**Matrix: Solid**

**Analysis Batch: 153537**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Tetrachloroethene	5000	5400		ug/Kg		108	79 - 130
Trichloroethene	5000	5110		ug/Kg		102	69 - 129

TestAmerica Pleasanton

# QC Sample Results

Client: Cardno ATC  
 Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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

Lab Sample ID: LCS 720-153537/5

Matrix: Solid

Analysis Batch: 153537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		66 - 148
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
Toluene-d8 (Surr)	102		65 - 141

Lab Sample ID: LCSD 720-153537/6

Matrix: Solid

Analysis Batch: 153537

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	Limit
Tetrachloroethene	5000	5550		ug/Kg		111	79 - 130	3	20	
Trichloroethene	5000	5270		ug/Kg		105	69 - 129	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		66 - 148
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
Toluene-d8 (Surr)	101		65 - 141

# QC Association Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## GC/MS VOA

### Analysis Batch: 153226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-1	CB8-14.5-15	Total/NA	Solid	8260B	153249
720-55397-2	CB8-19-19.5	Total/NA	Solid	8260B	153249
720-55397-3	CB8-19.5-20	Total/NA	Solid	8260B	153249
720-55397-4	CB8-25-25.5	Total/NA	Solid	8260B	153249
720-55397-5	CB8-29.5-30	Total/NA	Solid	8260B	153249
720-55397-6	CB11-2.5-3	Total/NA	Solid	8260B	153249
720-55397-7	CB11-3-3.5	Total/NA	Solid	8260B	153249
720-55397-9	CB11-8	Total/NA	Solid	8260B	153249
720-55397-10	CB11-10	Total/NA	Solid	8260B	153249
720-55397-A-8-A MS	720-55397-A-8-A MS	Total/NA	Solid	8260B	153249
720-55397-A-8-B MSD	720-55397-A-8-B MSD	Total/NA	Solid	8260B	153249
LCS 720-153226/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153226/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153226/5	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 153249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-1	CB8-14.5-15	Total/NA	Solid	5030B	
720-55397-2	CB8-19-19.5	Total/NA	Solid	5030B	
720-55397-3	CB8-19.5-20	Total/NA	Solid	5030B	
720-55397-4	CB8-25-25.5	Total/NA	Solid	5030B	
720-55397-5	CB8-29.5-30	Total/NA	Solid	5030B	
720-55397-6	CB11-2.5-3	Total/NA	Solid	5030B	
720-55397-7	CB11-3-3.5	Total/NA	Solid	5030B	
720-55397-9	CB11-8	Total/NA	Solid	5030B	
720-55397-10	CB11-10	Total/NA	Solid	5030B	
720-55397-A-8-A MS	720-55397-A-8-A MS	Total/NA	Solid	5030B	
720-55397-A-8-B MSD	720-55397-A-8-B MSD	Total/NA	Solid	5030B	

### Analysis Batch: 153296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-15	CB9-4	Total/NA	Solid	8260B	153315
720-55397-15 MS	CB9-4	Total/NA	Solid	8260B	153315
720-55397-15 MSD	CB9-4	Total/NA	Solid	8260B	153315
LCS 720-153296/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153296/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153296/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 153298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-16	CB9-6-6.5	Total/NA	Solid	8260B	153316
720-55397-16 MS	CB9-6-6.5	Total/NA	Solid	8260B	153316
720-55397-16 MSD	CB9-6-6.5	Total/NA	Solid	8260B	153316
720-55397-17	CB9-8	Total/NA	Solid	8260B	153316
720-55397-18	CB7-2	Total/NA	Solid	8260B	153316
720-55397-19	CB7-4	Total/NA	Solid	8260B	153316
720-55397-20	CB7-6	Total/NA	Solid	8260B	153316
720-55397-21	CB7-8	Total/NA	Solid	8260B	153316
LCS 720-153298/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153298/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153298/4	Method Blank	Total/NA	Solid	8260B	

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# QC Association Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## GC/MS VOA (Continued)

### Prep Batch: 153315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-15	CB9-4	Total/NA	Solid	5030B	
720-55397-15 MS	CB9-4	Total/NA	Solid	5030B	
720-55397-15 MSD	CB9-4	Total/NA	Solid	5030B	

### Prep Batch: 153316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-16	CB9-6-6.5	Total/NA	Solid	5030B	
720-55397-16 MS	CB9-6-6.5	Total/NA	Solid	5030B	
720-55397-16 MSD	CB9-6-6.5	Total/NA	Solid	5030B	
720-55397-17	CB9-8	Total/NA	Solid	5030B	
720-55397-18	CB7-2	Total/NA	Solid	5030B	
720-55397-19	CB7-4	Total/NA	Solid	5030B	
720-55397-20	CB7-6	Total/NA	Solid	5030B	
720-55397-21	CB7-8	Total/NA	Solid	5030B	

### Analysis Batch: 153343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-8	CB11-6	Total/NA	Solid	8260B	153355
720-55397-11	CB11-11.5	Total/NA	Solid	8260B	153355
720-55397-12	CB11-19-19.5	Total/NA	Solid	8260B	153355
720-55397-13	CB11-23-23.5	Total/NA	Solid	8260B	153355
720-55397-14	CB9-2	Total/NA	Solid	8260B	153355
720-55397-23	CB7-12	Total/NA	Solid	8260B	153355
720-55397-24	CB7-14	Total/NA	Solid	8260B	153355
720-55397-26	CB7-20	Total/NA	Solid	8260B	153355
720-55397-27	CB7-22	Total/NA	Solid	8260B	153355
720-55397-28	CB7-25	Total/NA	Solid	8260B	153355
720-55397-29	CB7-32	Total/NA	Solid	8260B	153355
720-55397-30	CB8-2	Total/NA	Solid	8260B	153355
720-55397-31	CB8-4	Total/NA	Solid	8260B	153355
720-55397-31 MS	CB8-4	Total/NA	Solid	8260B	153355
720-55397-31 MSD	CB8-4	Total/NA	Solid	8260B	153355
720-55397-33	CB8-7.5-8	Total/NA	Solid	8260B	153355
720-55397-34	CB8-8-8.5	Total/NA	Solid	8260B	153355
720-55397-35	CB9-13-13.5	Total/NA	Solid	8260B	153355
720-55397-36	CB9-18	Total/NA	Solid	8260B	153355
LCS 720-153343/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153343/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153343/4	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 153344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-32	CB8-6	Total/NA	Solid	8260B	153360
720-55397-32 MS	CB8-6	Total/NA	Solid	8260B	153360
720-55397-32 MSD	CB8-6	Total/NA	Solid	8260B	153360
720-55397-37	CB9-24.5	Total/NA	Solid	8260B	153360
720-55397-38	CB10-3	Total/NA	Solid	8260B	153360
720-55397-39	CB10-4	Total/NA	Solid	8260B	153360
720-55397-41	CB10-22.5	Total/NA	Solid	8260B	153360
720-55397-43	CB3-4.5	Total/NA	Solid	8260B	153360
720-55397-45	CB3A-5-5.5	Total/NA	Solid	8260B	153360

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# QC Association Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## GC/MS VOA (Continued)

### Analysis Batch: 153344 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-47	CB3A-8-8.5	Total/NA	Solid	8260B	153360
720-55397-49	CB12-4-4.5	Total/NA	Solid	8260B	153360
720-55397-50	CB12-6-6.5	Total/NA	Solid	8260B	153360
720-55397-51	CB12-7.5-8	Total/NA	Solid	8260B	153360
720-55397-52	CB12-12-12.5	Total/NA	Solid	8260B	153360
LCS 720-153344/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-153344/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153344/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 153355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-8	CB11-6	Total/NA	Solid	5030B	
720-55397-11	CB11-11.5	Total/NA	Solid	5030B	
720-55397-12	CB11-19-19.5	Total/NA	Solid	5030B	
720-55397-13	CB11-23-23.5	Total/NA	Solid	5030B	
720-55397-14	CB9-2	Total/NA	Solid	5030B	
720-55397-23	CB7-12	Total/NA	Solid	5030B	
720-55397-24	CB7-14	Total/NA	Solid	5030B	
720-55397-26	CB7-20	Total/NA	Solid	5030B	
720-55397-27	CB7-22	Total/NA	Solid	5030B	
720-55397-28	CB7-25	Total/NA	Solid	5030B	
720-55397-29	CB7-32	Total/NA	Solid	5030B	
720-55397-30	CB8-2	Total/NA	Solid	5030B	
720-55397-31	CB8-4	Total/NA	Solid	5030B	
720-55397-31 MS	CB8-4	Total/NA	Solid	5030B	
720-55397-31 MSD	CB8-4	Total/NA	Solid	5030B	
720-55397-33	CB8-7.5-8	Total/NA	Solid	5030B	
720-55397-34	CB8-8-8.5	Total/NA	Solid	5030B	
720-55397-35	CB9-13-13.5	Total/NA	Solid	5030B	
720-55397-36	CB9-18	Total/NA	Solid	5030B	

### Prep Batch: 153360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-32	CB8-6	Total/NA	Solid	5030B	
720-55397-32 MS	CB8-6	Total/NA	Solid	5030B	
720-55397-32 MSD	CB8-6	Total/NA	Solid	5030B	
720-55397-37	CB9-24.5	Total/NA	Solid	5030B	
720-55397-38	CB10-3	Total/NA	Solid	5030B	
720-55397-39	CB10-4	Total/NA	Solid	5030B	
720-55397-41	CB10-22.5	Total/NA	Solid	5030B	
720-55397-43	CB3-4.5	Total/NA	Solid	5030B	
720-55397-45	CB3A-5-5.5	Total/NA	Solid	5030B	
720-55397-47	CB3A-8-8.5	Total/NA	Solid	5030B	
720-55397-49	CB12-4-4.5	Total/NA	Solid	5030B	
720-55397-50	CB12-6-6.5	Total/NA	Solid	5030B	
720-55397-51	CB12-7.5-8	Total/NA	Solid	5030B	
720-55397-52	CB12-12-12.5	Total/NA	Solid	5030B	

### Analysis Batch: 153393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-25	CB7-15	Total/NA	Solid	8260B	153430

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# QC Association Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## GC/MS VOA (Continued)

### Analysis Batch: 153393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-38	CB10-3	Total/NA	Solid	8260B	153430
720-55397-40	CB10-8-8.5	Total/NA	Solid	8260B	153430
720-55397-53	CB12-14-14.5	Total/NA	Solid	8260B	153430
720-55397-53 MS	CB12-14-14.5	Total/NA	Solid	8260B	153430
720-55397-53 MSD	CB12-14-14.5	Total/NA	Solid	8260B	153430
720-55397-54	CB12-16.5-17	Total/NA	Solid	8260B	153430
720-55397-56	CB12-23-23.5	Total/NA	Solid	8260B	153430
LCS 720-153393/9	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153393/10	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153393/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 153430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-25	CB7-15	Total/NA	Solid	5030B	
720-55397-38	CB10-3	Total/NA	Solid	5030B	
720-55397-40	CB10-8-8.5	Total/NA	Solid	5030B	
720-55397-53	CB12-14-14.5	Total/NA	Solid	5030B	
720-55397-53 MS	CB12-14-14.5	Total/NA	Solid	5030B	
720-55397-53 MSD	CB12-14-14.5	Total/NA	Solid	5030B	
720-55397-54	CB12-16.5-17	Total/NA	Solid	5030B	
720-55397-56	CB12-23-23.5	Total/NA	Solid	5030B	

### Analysis Batch: 153453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-39	CB10-4	Total/NA	Solid	8260B	153472
720-55397-53	CB12-14-14.5	Total/NA	Solid	8260B	153472
LCS 720-153453/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153453/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153453/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 153472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-39	CB10-4	Total/NA	Solid	5030B	
720-55397-53	CB12-14-14.5	Total/NA	Solid	5030B	

### Analysis Batch: 153503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-22	CB7-10	Total/NA	Solid	8260B	153525
720-55397-44	CB3-22-22.5	Total/NA	Solid	8260B	153525
720-55397-44 MS	CB3-22-22.5	Total/NA	Solid	8260B	153525
720-55397-44 MSD	CB3-22-22.5	Total/NA	Solid	8260B	153525
720-55397-46	CB3A-6-6.5	Total/NA	Solid	8260B	153525
720-55397-48	CB12-2-2.5	Total/NA	Solid	8260B	153525
720-55397-49	CB12-4-4.5	Total/NA	Solid	8260B	153525
720-55397-51	CB12-7.5-8	Total/NA	Solid	8260B	153525
720-55397-52	CB12-12-12.5	Total/NA	Solid	8260B	153525
720-55397-54	CB12-16.5-17	Total/NA	Solid	8260B	153525
720-55397-55	CB12-22-22.5	Total/NA	Solid	8260B	153525
720-55397-56	CB12-23-23.5	Total/NA	Solid	8260B	153525
720-55397-57	CB12-9.5-10	Total/NA	Solid	8260B	153525
720-55397-58	CB8-10-10.5	Total/NA	Solid	8260B	153525

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# QC Association Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## GC/MS VOA (Continued)

### Analysis Batch: 153503 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-153503/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153503/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153503/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 153525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-22	CB7-10	Total/NA	Solid	5030B	
720-55397-44	CB3-22-22.5	Total/NA	Solid	5030B	
720-55397-44 MS	CB3-22-22.5	Total/NA	Solid	5030B	
720-55397-44 MSD	CB3-22-22.5	Total/NA	Solid	5030B	
720-55397-46	CB3A-6-6.5	Total/NA	Solid	5030B	
720-55397-48	CB12-2-2.5	Total/NA	Solid	5030B	
720-55397-49	CB12-4-4.5	Total/NA	Solid	5030B	
720-55397-51	CB12-7.5-8	Total/NA	Solid	5030B	
720-55397-52	CB12-12-12.5	Total/NA	Solid	5030B	
720-55397-54	CB12-16.5-17	Total/NA	Solid	5030B	
720-55397-55	CB12-22-22.5	Total/NA	Solid	5030B	
720-55397-56	CB12-23-23.5	Total/NA	Solid	5030B	
720-55397-57	CB12-9.5-10	Total/NA	Solid	5030B	
720-55397-58	CB8-10-10.5	Total/NA	Solid	5030B	

### Analysis Batch: 153537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-48	CB12-2-2.5	Total/NA	Solid	8260B	153563
LCS 720-153537/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-153537/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-153537/4	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 153563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55397-48	CB12-2-2.5	Total/NA	Solid	5030B	

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB8-14.5-15

Lab Sample ID: 720-55397-1

Date Collected: 02/05/14 15:50

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 14:04	PDR	TAL PLS

## Client Sample ID: CB8-19-19.5

Lab Sample ID: 720-55397-2

Date Collected: 02/05/14 16:00

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 14:30	PDR	TAL PLS

## Client Sample ID: CB8-19.5-20

Lab Sample ID: 720-55397-3

Date Collected: 02/05/14 16:04

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 14:56	PDR	TAL PLS

## Client Sample ID: CB8-25-25.5

Lab Sample ID: 720-55397-4

Date Collected: 02/05/14 16:15

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 15:22	PDR	TAL PLS

## Client Sample ID: CB8-29.5-30

Lab Sample ID: 720-55397-5

Date Collected: 02/05/14 16:20

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 15:48	PDR	TAL PLS

## Client Sample ID: CB11-2.5-3

Lab Sample ID: 720-55397-6

Date Collected: 02/06/14 08:50

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 16:14	PDR	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB11-3-3.5

Lab Sample ID: 720-55397-7

Date Collected: 02/06/14 08:55

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 16:40	PDR	TAL PLS

## Client Sample ID: CB11-6

Lab Sample ID: 720-55397-8

Date Collected: 02/06/14 09:02

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/11/14 20:43	LPL	TAL PLS

## Client Sample ID: CB11-8

Lab Sample ID: 720-55397-9

Date Collected: 02/06/14 09:05

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 18:24	PDR	TAL PLS

## Client Sample ID: CB11-10

Lab Sample ID: 720-55397-10

Date Collected: 02/06/14 09:12

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153249	02/10/14 14:08	PDR	TAL PLS
Total/NA	Analysis	8260B		1	153226	02/10/14 18:50	PDR	TAL PLS

## Client Sample ID: CB11-11.5

Lab Sample ID: 720-55397-11

Date Collected: 02/06/14 09:16

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/11/14 21:09	LPL	TAL PLS

## Client Sample ID: CB11-19-19.5

Lab Sample ID: 720-55397-12

Date Collected: 02/06/14 09:45

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/11/14 23:19	LPL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB11-23-23.5

Lab Sample ID: 720-55397-13

Date Collected: 02/06/14 10:05

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/11/14 23:44	LPL	TAL PLS

## Client Sample ID: CB9-2

Lab Sample ID: 720-55397-14

Date Collected: 02/06/14 10:15

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 00:10	LPL	TAL PLS

## Client Sample ID: CB9-4

Lab Sample ID: 720-55397-15

Date Collected: 02/06/14 10:20

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153315	02/11/14 10:56	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153296	02/11/14 15:18	LPL	TAL PLS

## Client Sample ID: CB9-6-6.5

Lab Sample ID: 720-55397-16

Date Collected: 02/06/14 10:35

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153316	02/11/14 11:07	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153298	02/11/14 11:32	LPL	TAL PLS

## Client Sample ID: CB9-8

Lab Sample ID: 720-55397-17

Date Collected: 02/06/14 10:40

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153316	02/11/14 11:07	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153298	02/11/14 15:32	LPL	TAL PLS

## Client Sample ID: CB7-2

Lab Sample ID: 720-55397-18

Date Collected: 02/05/14 14:30

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153316	02/11/14 11:07	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153298	02/11/14 16:01	LPL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB7-4

Lab Sample ID: 720-55397-19

Date Collected: 02/05/14 14:32

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153316	02/11/14 11:07	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153298	02/11/14 16:31	LPL	TAL PLS

## Client Sample ID: CB7-6

Lab Sample ID: 720-55397-20

Date Collected: 02/05/14 14:40

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153316	02/11/14 11:07	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153298	02/11/14 17:00	LPL	TAL PLS

## Client Sample ID: CB7-8

Lab Sample ID: 720-55397-21

Date Collected: 02/05/14 14:42

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153316	02/11/14 11:07	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153298	02/11/14 17:29	LPL	TAL PLS

## Client Sample ID: CB7-10

Lab Sample ID: 720-55397-22

Date Collected: 02/05/14 14:45

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 01:22	ASC	TAL PLS

## Client Sample ID: CB7-12

Lab Sample ID: 720-55397-23

Date Collected: 02/05/14 14:47

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/11/14 21:35	LPL	TAL PLS

## Client Sample ID: CB7-14

Lab Sample ID: 720-55397-24

Date Collected: 02/05/14 14:48

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 00:36	LPL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB7-15

Lab Sample ID: 720-55397-25

Date Collected: 02/05/14 14:50

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153430	02/12/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153393	02/12/14 19:29	ASC	TAL PLS

## Client Sample ID: CB7-20

Lab Sample ID: 720-55397-26

Date Collected: 02/05/14 14:58

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 01:28	LPL	TAL PLS

## Client Sample ID: CB7-22

Lab Sample ID: 720-55397-27

Date Collected: 02/05/14 15:00

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 01:54	LPL	TAL PLS

## Client Sample ID: CB7-25

Lab Sample ID: 720-55397-28

Date Collected: 02/05/14 15:05

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 02:20	LPL	TAL PLS

## Client Sample ID: CB7-32

Lab Sample ID: 720-55397-29

Date Collected: 02/05/14 15:10

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 02:46	LPL	TAL PLS

## Client Sample ID: CB8-2

Lab Sample ID: 720-55397-30

Date Collected: 02/05/14 15:30

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 03:12	LPL	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB8-4

Lab Sample ID: 720-55397-31

Date Collected: 02/05/14 15:35

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/11/14 22:00	LPL	TAL PLS

## Client Sample ID: CB8-6

Lab Sample ID: 720-55397-32

Date Collected: 02/05/14 15:37

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/11/14 22:16	LPL	TAL PLS

## Client Sample ID: CB8-7.5-8

Lab Sample ID: 720-55397-33

Date Collected: 02/05/14 15:39

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 03:38	LPL	TAL PLS

## Client Sample ID: CB8-8-8.5

Lab Sample ID: 720-55397-34

Date Collected: 02/05/14 15:40

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 04:04	LPL	TAL PLS

## Client Sample ID: CB9-13-13.5

Lab Sample ID: 720-55397-35

Date Collected: 02/06/14 11:00

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 04:30	LPL	TAL PLS

## Client Sample ID: CB9-18

Lab Sample ID: 720-55397-36

Date Collected: 02/06/14 11:20

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153355	02/11/14 18:09	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153343	02/12/14 04:56	LPL	TAL PLS

TestAmerica Pleasanton



# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB9-24.5

Lab Sample ID: 720-55397-37

Date Collected: 02/06/14 11:30

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/11/14 23:42	LPL	TAL PLS

## Client Sample ID: CB10-3

Lab Sample ID: 720-55397-38

Date Collected: 02/06/14 12:50

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 00:11	LPL	TAL PLS
Total/NA	Prep	5030B			153430	02/12/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153393	02/12/14 19:57	ASC	TAL PLS

## Client Sample ID: CB10-4

Lab Sample ID: 720-55397-39

Date Collected: 02/06/14 12:52

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 00:39	LPL	TAL PLS
Total/NA	Prep	5030B			153472	02/13/14 08:00	ASC	TAL PLS
Total/NA	Analysis	8260B		100	153453	02/13/14 14:47	ASC	TAL PLS

## Client Sample ID: CB10-8-8.5

Lab Sample ID: 720-55397-40

Date Collected: 02/06/14 13:27

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153430	02/12/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153393	02/12/14 20:55	ASC	TAL PLS

## Client Sample ID: CB10-22.5

Lab Sample ID: 720-55397-41

Date Collected: 02/06/14 14:06

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 01:37	LPL	TAL PLS

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB3-4.5

Lab Sample ID: 720-55397-43

Date Collected: 02/06/14 14:40

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 02:06	LPL	TAL PLS

## Client Sample ID: CB3-22-22.5

Lab Sample ID: 720-55397-44

Date Collected: 02/06/14 15:40

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 00:53	ASC	TAL PLS

## Client Sample ID: CB3A-5-5.5

Lab Sample ID: 720-55397-45

Date Collected: 02/07/14 07:50

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 03:03	LPL	TAL PLS

## Client Sample ID: CB3A-6-6.5

Lab Sample ID: 720-55397-46

Date Collected: 02/07/14 07:55

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/13/14 21:31	ASC	TAL PLS

## Client Sample ID: CB3A-8-8.5

Lab Sample ID: 720-55397-47

Date Collected: 02/07/14 07:59

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 04:00	LPL	TAL PLS

## Client Sample ID: CB12-2-2.5

Lab Sample ID: 720-55397-48

Date Collected: 02/07/14 08:30

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/13/14 21:59	ASC	TAL PLS
Total/NA	Prep	5030B			153563	02/14/14 08:00	ASC	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB12-2-2.5

Lab Sample ID: 720-55397-48

Date Collected: 02/07/14 08:30

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	153537	02/14/14 11:39	ASC	TAL PLS

## Client Sample ID: CB12-4-4.5

Lab Sample ID: 720-55397-49

Date Collected: 02/07/14 08:35

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 04:58	LPL	TAL PLS
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/13/14 22:28	ASC	TAL PLS

## Client Sample ID: CB12-6-6.5

Lab Sample ID: 720-55397-50

Date Collected: 02/07/14 08:45

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 05:27	LPL	TAL PLS

## Client Sample ID: CB12-7.5-8

Lab Sample ID: 720-55397-51

Date Collected: 02/07/14 08:48

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 05:55	LPL	TAL PLS
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 01:51	ASC	TAL PLS

## Client Sample ID: CB12-12-12.5

Lab Sample ID: 720-55397-52

Date Collected: 02/07/14 09:09

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153360	02/11/14 20:27	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153344	02/12/14 06:24	LPL	TAL PLS
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/13/14 22:57	ASC	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Client Sample ID: CB12-14-14.5

Lab Sample ID: 720-55397-53

Date Collected: 02/07/14 09:11

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153430	02/12/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153393	02/12/14 14:13	ASC	TAL PLS
Total/NA	Prep	5030B			153472	02/13/14 08:00	ASC	TAL PLS
Total/NA	Analysis	8260B		100	153453	02/13/14 13:55	ASC	TAL PLS

## Client Sample ID: CB12-16.5-17

Lab Sample ID: 720-55397-54

Date Collected: 02/07/14 09:30

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153430	02/12/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153393	02/12/14 15:39	ASC	TAL PLS
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 02:20	ASC	TAL PLS

## Client Sample ID: CB12-22-22.5

Lab Sample ID: 720-55397-55

Date Collected: 02/07/14 10:00

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 02:49	ASC	TAL PLS

## Client Sample ID: CB12-23-23.5

Lab Sample ID: 720-55397-56

Date Collected: 02/07/14 10:04

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153430	02/12/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	153393	02/12/14 16:36	ASC	TAL PLS
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/13/14 23:26	ASC	TAL PLS

## Client Sample ID: CB12-9.5-10

Lab Sample ID: 720-55397-57

Date Collected: 02/07/14 08:50

Matrix: Solid

Date Received: 02/07/14 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 03:18	ASC	TAL PLS

TestAmerica Pleasanton

# Lab Chronicle

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

**Client Sample ID: CB8-10-10.5**

**Lab Sample ID: 720-55397-58**

**Date Collected: 02/06/14 15:45**

**Matrix: Solid**

**Date Received: 02/07/14 14:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			153525	02/13/14 19:06	LPL	TAL PLS
Total/NA	Analysis	8260B		1	153503	02/14/14 03:47	ASC	TAL PLS

**Laboratory References:**

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

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# Certification Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

## Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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# Method Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

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Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS

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**Protocol References:**

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

**Laboratory References:**

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



# Sample Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-55397-1	CB8-14.5-15	Solid	02/05/14 15:50	02/07/14 14:25
720-55397-2	CB8-19-19.5	Solid	02/05/14 16:00	02/07/14 14:25
720-55397-3	CB8-19.5-20	Solid	02/05/14 16:04	02/07/14 14:25
720-55397-4	CB8-25-25.5	Solid	02/05/14 16:15	02/07/14 14:25
720-55397-5	CB8-29.5-30	Solid	02/05/14 16:20	02/07/14 14:25
720-55397-6	CB11-2.5-3	Solid	02/06/14 08:50	02/07/14 14:25
720-55397-7	CB11-3-3.5	Solid	02/06/14 08:55	02/07/14 14:25
720-55397-8	CB11-6	Solid	02/06/14 09:02	02/07/14 14:25
720-55397-9	CB11-8	Solid	02/06/14 09:05	02/07/14 14:25
720-55397-10	CB11-10	Solid	02/06/14 09:12	02/07/14 14:25
720-55397-11	CB11-11.5	Solid	02/06/14 09:16	02/07/14 14:25
720-55397-12	CB11-19-19.5	Solid	02/06/14 09:45	02/07/14 14:25
720-55397-13	CB11-23-23.5	Solid	02/06/14 10:05	02/07/14 14:25
720-55397-14	CB9-2	Solid	02/06/14 10:15	02/07/14 14:25
720-55397-15	CB9-4	Solid	02/06/14 10:20	02/07/14 14:25
720-55397-16	CB9-6-6.5	Solid	02/06/14 10:35	02/07/14 14:25
720-55397-17	CB9-8	Solid	02/06/14 10:40	02/07/14 14:25
720-55397-18	CB7-2	Solid	02/05/14 14:30	02/07/14 14:25
720-55397-19	CB7-4	Solid	02/05/14 14:32	02/07/14 14:25
720-55397-20	CB7-6	Solid	02/05/14 14:40	02/07/14 14:25
720-55397-21	CB7-8	Solid	02/05/14 14:42	02/07/14 14:25
720-55397-22	CB7-10	Solid	02/05/14 14:45	02/07/14 14:25
720-55397-23	CB7-12	Solid	02/05/14 14:47	02/07/14 14:25
720-55397-24	CB7-14	Solid	02/05/14 14:48	02/07/14 14:25
720-55397-25	CB7-15	Solid	02/05/14 14:50	02/07/14 14:25
720-55397-26	CB7-20	Solid	02/05/14 14:58	02/07/14 14:25
720-55397-27	CB7-22	Solid	02/05/14 15:00	02/07/14 14:25
720-55397-28	CB7-25	Solid	02/05/14 15:05	02/07/14 14:25
720-55397-29	CB7-32	Solid	02/05/14 15:10	02/07/14 14:25
720-55397-30	CB8-2	Solid	02/05/14 15:30	02/07/14 14:25
720-55397-31	CB8-4	Solid	02/05/14 15:35	02/07/14 14:25
720-55397-32	CB8-6	Solid	02/05/14 15:37	02/07/14 14:25
720-55397-33	CB8-7.5-8	Solid	02/05/14 15:39	02/07/14 14:25
720-55397-34	CB8-8-8.5	Solid	02/05/14 15:40	02/07/14 14:25
720-55397-35	CB9-13-13.5	Solid	02/06/14 11:00	02/07/14 14:25
720-55397-36	CB9-18	Solid	02/06/14 11:20	02/07/14 14:25
720-55397-37	CB9-24.5	Solid	02/06/14 11:30	02/07/14 14:25
720-55397-38	CB10-3	Solid	02/06/14 12:50	02/07/14 14:25
720-55397-39	CB10-4	Solid	02/06/14 12:52	02/07/14 14:25
720-55397-40	CB10-8-8.5	Solid	02/06/14 13:27	02/07/14 14:25
720-55397-41	CB10-22.5	Solid	02/06/14 14:06	02/07/14 14:25
720-55397-43	CB3-4.5	Solid	02/06/14 14:40	02/07/14 14:25
720-55397-44	CB3-22-22.5	Solid	02/06/14 15:40	02/07/14 14:25
720-55397-45	CB3A-5-5.5	Solid	02/07/14 07:50	02/07/14 14:25
720-55397-46	CB3A-6-6.5	Solid	02/07/14 07:55	02/07/14 14:25
720-55397-47	CB3A-8-8.5	Solid	02/07/14 07:59	02/07/14 14:25
720-55397-48	CB12-2-2.5	Solid	02/07/14 08:30	02/07/14 14:25
720-55397-49	CB12-4-4.5	Solid	02/07/14 08:35	02/07/14 14:25
720-55397-50	CB12-6-6.5	Solid	02/07/14 08:45	02/07/14 14:25
720-55397-51	CB12-7.5-8	Solid	02/07/14 08:48	02/07/14 14:25
720-55397-52	CB12-12-12.5	Solid	02/07/14 09:09	02/07/14 14:25
720-55397-53	CB12-14-14.5	Solid	02/07/14 09:11	02/07/14 14:25
720-55397-54	CB12-16.5-17	Solid	02/07/14 09:30	02/07/14 14:25

TestAmerica Pleasanton



# Sample Summary

Client: Cardno ATC  
Project/Site: 580 Market Place

TestAmerica Job ID: 720-55397-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-55397-55	CB12-22-22.5	Solid	02/07/14 10:00	02/07/14 14:25
720-55397-56	CB12-23-23.5	Solid	02/07/14 10:04	02/07/14 14:25
720-55397-57	CB12-9.5-10	Solid	02/07/14 08:50	02/07/14 14:25
720-55397-58	CB8-10-10.5	Solid	02/06/14 15:45	02/07/14 14:25

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## Sharma, Dimple

---

**From:** Scott Perkins [Scott.Perkins@cardno.com]  
**Sent:** Monday, February 10, 2014 10:58 AM  
**To:** Sharma, Dimple  
**Cc:** gabe stivala  
**Subject:** RE: Sample Login Confirmation for 720-55397, 580 Market Place  
Please analyze both.

Thank you.

Scott

### Scott Perkins

PROJECT MANAGER  
CARDNO ATC

Phone (+1) 925-460-5300 Fax (+1) 925-463-2559 Direct (+1) 925-460-5300 Mobile (+1) 925-580-2455  
Address 6602 Owens Drive, Suite 100, Pleasanton, CA 94588  
Email scott.perkins@cardno.com Web www.cardnoatc.com - www.cardno.com

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**From:** Sharma, Dimple [mailto:Dimple.Sharma@testamericainc.com]  
**Sent:** Monday, February 10, 2014 10:53 AM  
**To:** Scott Perkins; gabe stivala  
**Subject:** RE: Sample Login Confirmation for 720-55397, 580 Market Place

Both these samples are logged in on hold. Please let me know if you want these analyzed.

**Dimple Sharma**  
Senior Project Manager

### TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1220 Quarry Lane  
Pleasanton, CA 94566  
Tel 925.484.1919 ext. 103 | Fax 925.600.3002  
[www.testamericainc.com](http://www.testamericainc.com)

---

**From:** Scott Perkins [mailto:Scott.Perkins@cardno.com]  
**Sent:** Monday, February 10, 2014 10:50 AM  
**To:** Sharma, Dimple; gabe stivala  
**Subject:** RE: Sample Login Confirmation for 720-55397, 580 Market Place

Dimple,

Sample CB12 9.5-10 was collected on 2/7/14 at 0850. Sample CB8 10-10.5 was collected on 2/6/14 at 1545 hrs.

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CB3-3 was not submitted.

**Scott Perkins**  
PROJECT MANAGER  
CARDNO ATC

Phone (+1) 925-460-5300 Fax (+1) 925-463-2559 Direct (+1) 925-460-5300 Mobile (+1) 925-580-2455  
Address 6602 Owens Drive, Suite 100, Pleasanton, CA 94588  
Email [scott.perkins@cardno.com](mailto:scott.perkins@cardno.com) Web [www.cardnoatc.com](http://www.cardnoatc.com) - [www.cardno.com](http://www.cardno.com)

**From:** Sharma, Dimple [<mailto:dimple.sharma@testamericainc.com>]  
**Sent:** Monday, February 10, 2014 10:41 AM  
**To:** gabe stivala; Scott Perkins  
**Subject:** Sample Login Confirmation for 720-55397, 580 Market Place

The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: CB3-3 was not received. Samples logged on hold.

The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): CB12-9.5-10 and CB8-10-10.5. Logged samples in on hold. Picked a date for these samples to log-in since date was not on container.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

**DIMPLE SHARMA**

**TestAmerica Pleasanton**  
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919  
[www.testamericainc.com](http://www.testamericainc.com)

Reference: [150998]  
Attachments: 3



6602 Owens Drive, Suite 100  
 Pleasanton, CA 94588  
 Main Line: (925) 460-5300  
 Facsimile: (925) 463-2559

**720-55397**

**CHAIN-OF-CUSTODY FORM**

151712

Project Name: 580 Marketplace Client: Weingarten Realty Investors  
 Project Number: 075.75354.0002 Task: 20134 Global ID: T10000004345  
 Project Address: 3735 E. Castro Valley Blvd.  
 Laboratory: TestAmerica Contact: Dimple Sharma  
 Lab Address/Phone: 1220 Quarry Lane Pleasanton, CA 925-484-1919  
 ATC Project Manager: Scott Perkins  
 ATC PM Ph. No.: 925-580-2455 Email: scott.perkins@cardno.com  
 ATC Sampler: Todd Hafner Email: gabe.stivala@cardno.com

Turnaround Time:    10 day    3 day    2-8 hr  
   7 day    2 day    other  
 (working days) X 5 day    24 hr   

**Analyses Requested**

Cardno ATC Sample ID	Sample Information			Container Information			Preserved	Field Point ID (check if same as sample ID)	Full List 8260B	Notes/Comment
	Date	Time	Soil	No.	Type	Preservative (HCL/HNO <sub>3</sub> /H <sub>2</sub> SO <sub>4</sub> )				
CB8 14.5-15	2/5/2014	1550	X	1	acetate liner	none	1	CB8	X	
CB8 19-19.5	2/5/2014	1600	X	1	acetate liner	none	2	CB8	X	
CB8 19.5-20	2/5/2014	1604	X	1	acetate liner	none	3	CB8	X	
CB8 25-25.5	2/5/2014	1615	X	1	acetate liner	none	4	CB8	X	
CB8 29.5-30	2/5/2014	1620	X	1	acetate liner	none	5	CB8	X	
CB11 2.5-3	2/6/2014	850	X	1	acetate liner	none	6	CB11	X	
CB11 3-3.5	2/6/2014	855	X	1	acetate liner	none	7	CB11	X	
CB11-6	2/6/2014	902	X	1	acetate liner	none	8	CB11	X	
CB11-8	2/6/2014	905	X	1	acetate liner	none	9	CB11	X	
CB11-10	2/6/2014	912	X	1	acetate liner	none	10	CB11	X	
CB11-11.5	2/6/2014	916	X	1	acetate liner	none	11	CB11	X	
CB11 19-19.5	2/6/2014	945	X	1	acetate liner	none	12	CB11	X	
CB11 23-23.5	2/6/2014	1005	X	1	acetate liner	none	13	CB11	X	
CB9-2	2/6/2014	1015	X	1	acetate liner	none	14	CB9	X	
CB9-4	2/6/2014	1020	X	1	acetate liner	none	15	CB9	X	
CB9 6-6.5	2/6/2014	1035	X	1	acetate liner	none	16	CB9	X	
CB9-8	2/6/2014	1040	X	1	acetate liner	none	17	CB9	X	



Additional Comments: \_\_\_\_\_

EDF FORMAT

Relinquished By: [Signature] Date/Time: 2/7/14 1425 Received By: [Signature] Date/Time: 2/7/14 1425  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Condition, Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_ Cooler Temp 27°C Transportation Method \_\_\_\_\_ Page 1 of 4

2/14/2014 Page 206 of 210



6602 Owens Drive, Suite 100  
 Pleasanton, CA 94588  
 Main Line: (925) 460-5300  
 Facsimile: (925) 463-2559

# CHAIN-OF-CUSTODY FORM

Project Name: 580 Marketplace Client: Weingarten Realty Investors  
 Project Number: 075.75354.0002 Task: 20134 Global ID: T10000004345  
 Project Address: 3735 E. Castro Valley Blvd.  
 Laboratory: TestAmerica Contact: Dimple Sharma  
 Lab Address/Phone: 1220 Quarry Lane Pleasanton, CA 925-484-1919  
 ATC Project Manager: Scott Perkins  
 ATC PM Ph. No.: 925-580-2455 Email: scott.perkins@cardno.com  
 ATC Sampler: Todd Hafner Email: gabe.stivala@cardno.com

Turnaround      10 day      3 day      2-8 hr  
 Time:      7 day      2 day      other  
 (working days) X 5 day      24 hr      ( )

Analyses Requested												Full List 8260B	Notes/Comment								
CB7-2	2/5/2014	1430	X			1	Acetate liner	none		18	CB7	X									
CB7-4	2/5/2014	1432	X			1	Acetate liner	none		19	CB7	X									
CB7-6	2/5/2014	1440	X			1	Acetate liner	none		26	CB7	X									
CB7-8	2/5/2014	1442	X			1	Acetate liner	none		21	CB7	X									
CB7-10	2/5/2014	1445	X			1	Acetate liner	none		22	CB7	X									
CB7-12	2/5/2014	1447	X			1	Acetate liner	none		23	CB7	X									
CB7-14	2/5/2014	1448	X			1	Acetate liner	none		24	CB7	X									
CB7-15	2/5/2014	1450	X			1	Acetate liner	none		25	CB7	X									
CB7-20	2/5/2014	1458	X			1	Acetate liner	none		26	CB7	X									
CB7-22	2/5/2014	1500	X			1	Acetate liner	none		27	CB7	X									
CB7-25	2/5/2014	1505	X			1	Acetate liner	none		28	CB7	X									
CB7-32	2/5/2014	1510	X			1	Acetate liner	none		29	CB7	X									
CB8-2	2/5/2014	1530	X			1	Acetate liner	none		30	CB8	X									
CB8-4	2/5/2014	1535	X			1	Acetate liner	none		31	CB8	X									
CB8-6	2/5/2014	1537	X			1	Acetate liner	none		32	CB8	X									
CB8 7.5-8	2/5/2014	1539	X			1	Acetate liner	none		33	CB8	X									
CB8 8-8.5	2/5/2014	1540	X			1	Acetate liner	none		34	CB8	X									

Cardno ATC Sample ID	Sample Information					Container Information			Preserved	Field Point ID (check if same as sample ID)	Full List 8260B	Notes/Comment	
	Date	Time	Soil	Water	Vapor	No.	Type	Preservative (HCL/HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> )					
CB7-2	2/5/2014	1430	X			1	Acetate liner	none		18	CB7	X	
CB7-4	2/5/2014	1432	X			1	Acetate liner	none		19	CB7	X	
CB7-6	2/5/2014	1440	X			1	Acetate liner	none		26	CB7	X	
CB7-8	2/5/2014	1442	X			1	Acetate liner	none		21	CB7	X	
CB7-10	2/5/2014	1445	X			1	Acetate liner	none		22	CB7	X	
CB7-12	2/5/2014	1447	X			1	Acetate liner	none		23	CB7	X	
CB7-14	2/5/2014	1448	X			1	Acetate liner	none		24	CB7	X	
CB7-15	2/5/2014	1450	X			1	Acetate liner	none		25	CB7	X	
CB7-20	2/5/2014	1458	X			1	Acetate liner	none		26	CB7	X	
CB7-22	2/5/2014	1500	X			1	Acetate liner	none		27	CB7	X	
CB7-25	2/5/2014	1505	X			1	Acetate liner	none		28	CB7	X	
CB7-32	2/5/2014	1510	X			1	Acetate liner	none		29	CB7	X	
CB8-2	2/5/2014	1530	X			1	Acetate liner	none		30	CB8	X	
CB8-4	2/5/2014	1535	X			1	Acetate liner	none		31	CB8	X	
CB8-6	2/5/2014	1537	X			1	Acetate liner	none		32	CB8	X	
CB8 7.5-8	2/5/2014	1539	X			1	Acetate liner	none		33	CB8	X	
CB8 8-8.5	2/5/2014	1540	X			1	Acetate liner	none		34	CB8	X	

Additional Comments: \_\_\_\_\_

Relinquished By: [Signature] Date/Time: 2/19/14 1425 Received By: [Signature] Date/Time: 2/17/14 1425  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Condition Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_ Cooler Temp \_\_\_\_\_ Transportation Method: \_\_\_\_\_ Page 2 of 4

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**Cardno  
ATC**

Shaping the Future

6602 Owens Drive, Suite 100  
Pleasanton, CA 94588  
Main Line: (925) 460-5300  
Facsimile: (925) 463-2559

### CHAIN-OF-CUSTODY FORM

Project Name: 580 Marketplace Client: Weingarten Realty Investors  
 Project Number: 075.75354.0002 Task: 20134 Global ID: T10000004345  
 Project Address: 3735 E. Castro Valley Blvd.  
 Laboratory: TestAmerica Contact: Dimple Sharma  
 Lab Address/Phone: 1220 Quarry Lane Pleasanton, CA 925-484-1919  
 ATC Project Manager: Scott Perkins  
 ATC PM Ph. No.: 925-580-2455 Email: scott.perkins@cardno.com  
 ATC Sampler: Todd Hafner Email: gabe.stivala@cardno.com

Turnaround      10 day      3 day      2-8 hr  
 Time:      7 day      2 day      other  
 (working days) X 5 day      24 hr      ( )

Analyses Requested

Cardno ATC Sample ID	Sample Information			Container Information			Preserved	Field Point ID (check if same as sample ID)	Full List 6260B	Notes/Comment
	Date	Time	Soil	No.	Type	Preservative (HCL/HNO <sub>3</sub> H <sub>2</sub> SO <sub>4</sub> )				
CB9 13-13.5	2/6/2014	1100	X	1	acetate liner	none	35	CB9	X	
CB9-18	2/6/2014	1120	X	1	acetate liner	none	36	CB9	X	
CB9-24.5	2/6/2014	1130	X	1	acetate liner	none	37	CB9	X	
CB10-3	2/6/2014	1250	X	1	acetate liner	none	38	CB10	X	
CB10-4	2/6/2014	1252	X	1	acetate liner	none	39	CB10	X	
CB10 8-8.5	2/6/2014	1327	X	1	acetate liner	none	40	CB10	X	
CB10-22.5	2/6/2014	1406	X	1	acetate liner	none	41	CB10	X	
CB3-3	2/6/2014	1435	X	1	acetate liner	none	42	CB3	X	
CB3-4.5	2/6/2014	1440	X	1	acetate liner	none	43	CB3	X	
CB3 22-22.5	2/6/2014	1540	X	1	acetate liner	none	44	CB3	X	
CB3A 5-5.5	2/7/2014	750	X	1	acetate liner	none	45	CB3A	X	
CB3A 6-6.5	2/7/2014	755	X	1	acetate liner	none	46	CB3A	X	
CB3A 8-8.5	2/7/2014	759	X	1	acetate liner	none	47	CB3A	X	
CB12 2-2.5	2/7/2014	830	X	1	acetate liner	none	48	CB12	X	
CB12 4-4.5	2/7/2014	835	X	1	acetate liner	none	49	CB12	X	
CB12 6-6.5	2/7/2014	845	X	1	acetate liner	none	50	CB12	X	
CB12 7.5-8	2/7/2014	848	X	1	acetate liner	none	51	CB12	X	

Additional Comments:

EDF FORMAT

Relinquished By: [Signature] Date/Time: 2/7/14 1425 Received By: [Signature] Date/Time: 2/7/14 1428  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Sample Condition. Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_ Cooler Temp \_\_\_\_\_ Transportation Method: \_\_\_\_\_ Page 3 of 4



**Cardno**  
**ATC**

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Pleasanton, CA 94588  
Main Line: (925) 460-5300  
Facsimile: (925) 463-2559

Project Name: 580 Marketplace Client: Weingarten Realty Investors  
Project Number: 075.75354.0002 Task: 20134 Global ID: T10000004345  
Project Address: 3735 E. Castro Valley Blvd.  
Laboratory: TestAmerica Contact: Dimple Sharma  
Lab Address/Phone: 1220 Quarry Lane Pleasanton, CA 925-484-1919  
ATC Project Manager: Scott Perkins  
ATC PM Ph. No.: 925-580-2455 Email: scott.perkins@cardno.com  
ATC Sampler: Todd Hafner Email: gabe.stivala@cardno.com

# CHAIN-OF-CUSTODY FORM

Turnaround Time:  10 day  3 day  2-8 hr  
 7 day  2 day  other  
(working days)  5 day  24 hr  ( )

### Analyses Requested

Cardno ATC Sample ID	Sample Information			Container Information			Field Point ID (check if same as sample ID)	Full List 8260B	Notes/Comment				
	Date	Time	Soil	Water	Vapor	No.				Type	Preservative (HCL/HNO <sub>3</sub> /H <sub>2</sub> SO <sub>4</sub> )	Preserved	
CB12 12-12.5	2/7/2014	909	X			1	acetate liner	none	52	CB12	X		
CB12 14-14.5	2/7/2014	911	X			1	acetate liner	none	53	CB12	X		
CB12 16.5-17	2/7/2014	930	X			1	acetate liner	none	54	CB12	X		
CB12 22-22.5	2/7/2014	1000	X			1	acetate liner	none	55	CB12	X		
CB12 23-23.5	2/7/2014	1004	X			1	acetate liner	none	56	CB12	X		

Additional Comments: \_\_\_\_\_

Relinquished By: <u><i>[Signature]</i></u>	Date/Time: <u>2/7/14 1425</u>	Received By: <u><i>[Signature]</i></u>	Date/Time: <u>2/7/14 1425</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Sample Condition. Good? Yes \_\_\_ No \_\_\_ On Ice? Yes \_\_\_ No \_\_\_ Cooler Temp \_\_\_\_\_ Transportation Method: \_\_\_\_\_ Page 4 of 4

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## Login Sample Receipt Checklist

Client: Cardno ATC

Job Number: 720-55397-1

**Login Number: 55397**

**List Source: TestAmerica Pleasanton**

**List Number: 1**

**Creator: Gonzales, Justinn**

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





**APPENDIX E**  
**SOIL BORING LOGS**

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**BORING NUMBER CB-3**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/6/14 **COMPLETED** 2/6/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					No recovery	
					1.0	Boring backfilled with neat cement grout
					1.5 SILTY SAND, (SM) brown	
			PID = 6.5		2.5 LEAN CLAY, (CL) brown, medium plasticity	
			PID = 3.5		SILT, (ML) brown	
5			PID = 12.6			
			PID = 1.3			
			PID = 1		7.0	
			PID = 1.3		FAT CLAY, (CH) gray, high plasticity	
			PID = 0.6			
10			PID = 0.8			
			PID = 0.9			
			PID = 1.4		12.0	
			PID = 0.9		SILT, (ML) gray	
			PID = 1.2			
15			PID = 1.3			
			PID = 1		15.0	
			PID = 0.7		FAT CLAY, (CH) gray, soft to firm, high plasticity	
			PID = 0.8			
			PID = 1		18.0	
			PID = 1.2		SILT, (ML) gray	
20			PID = 1.2			
			PID = 0.7		20.0	
			PID = 0.9		20.5	
			PID = 1.1		FAT CLAY, (CH) grayish brown, firm, high plasticity	
					SILT, (ML) grayish brown, low plasticity, brown cemented silt with fine grained sand at 23 feet bgs	
					23.0	

Bottom of borehole at 23.0 feet.

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**BORING NUMBER CB-7**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/5/14 **COMPLETED** 2/5/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
1.0					Asphalt and compacted sandy fill	Boring backfilled with neat cement grout
5					LEAN CLAY, (CL) gray, dry to moist, medium plasticity, silt and sand observed in samples	
10						
15						
18.0					CLAYEY SAND, (SC) brown, poorly graded, dry	
18.5					LEAN CLAY, (CL) gray to brown, firm to soft, mottled, medium plasticity, silt and sand observed in samples	
20						
25			PID = 0.5			
29.0						
30.0					SILTY SAND, (SM) brown, poorly graded, fine grained, dry	
32.0					LEAN CLAY, (CL) brown to gray, silt and sand observed in samples, cemented silt at 32 feet bgs	

Refusal at 32.0 feet.  
 Bottom of borehole at 32.0 feet.

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**BORING NUMBER CB-8**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/5/14 **COMPLETED** 2/5/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					No recovery	Boring backfilled with neat cement grout
				2.0	LEAN CLAY, (CL) brown, moist, soft, low plasticity	
5				5.5		
				6.0	POORLY GRADED SAND, (SP) gray, poorly graded, fine grained, dry	
					LEAN CLAY, (CL) gray, firm, low plasticity	
10				9.5		
				11.0	SILT, (ML) grayish brown, moist, soft, some gravel at 10.5 feet bgs	
					LEAN CLAY, (CL) gray, silt and sand observed in sample	
15						
20				19.5		
				20.0	POORLY GRADED SAND, (SP) brown, poorly graded, fine grained, dry	
					LEAN CLAY, (CL) brown to gray, dry to moist, soft to firm, medium plasticity	
25				23.0		
				23.5	CLAYEY SAND, (SC) brownish gray, poorly graded, fine grained, dry, very silty and clayey	
				24.0		
				25.0	LEAN CLAY, (CL) brown, dry, medium plasticity	
			PID = 1.2		SILTY SAND, (SM) grayish brown, poorly graded, fine grained, dry	
				26.5	FAT CLAY, (CH) dark brown, soft, high plasticity	
			PID = 0.3		SILT, (ML) orangeish brown, dry, cemented silt at 30 feet bgs	
30			PID = 0.7	30.0		

Refusal at 30.0 feet.  
 Bottom of borehole at 30.0 feet.

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 Telephone: 925-460-5300



**BORING NUMBER CB-9**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/6/14 **COMPLETED** 2/6/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
			PID = 1.4		1.0 CLAYEY SAND, (SC) dark gray, well graded, fine to coarse grained	Boring backfilled with neat cement grout
					LEAN CLAY, (CL) brown, soft to firm, low plasticity	
			PID = 13.7		2.5 SILT, (ML) brown, low plasticity, organic material observed from 3.5 to 4.5 feet bgs, gravelly zone observed at 5.5 feet bgs	
5			PID = 2.3			
			PID = 0.8			
			PID = 1.3		7.0	
					LEAN CLAY, (CL) brown, firm, medium plasticity	
			PID = 1.3		9.0	
10			PID = 1.1		10.0 LEAN CLAY, (CL-ML) greenish gray, firm, medium plasticity	
					No recovery	
					12.0	
			PID = 1.8		13.0 LEAN CLAY, (CL-ML) greenish brown, soft, low plasticity	
15					LEAN CLAY, (CL) dark gray, soft to firm, medium plasticity	
					17.0	
			PID = 0.7		SILT, (ML) brown	
20					20.5	
					LEAN CLAY, (CL) brown, medium plasticity, chert observed at 21.75	
					22.0	
					22.5 POORLY GRADED SAND, (SP) brown, poorly graded, fine grained	
					FAT CLAY, (CH) brown, soft to firm, high plasticity	
			PID = 0.8		24.0	
					24.5 SILTY SAND, (SM) brown, dry	

Bottom of borehole at 24.5 feet.

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**BORING NUMBER CB-10**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/6/14 **COMPLETED** 2/6/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					No recovery	
2.0						Boring backfilled with neat cement grout
2.5					CLAYEY SAND, (SC) dark gray, well graded, moist	
			PID = 3.6		LEAN CLAY, (CL) brown, dry, medium plasticity, silty	
5.0			PID = 20.2			
			PID = 8.7		SILT, (ML) brown, saturated	
6.0						
			PID = 1		SILTY GRAVEL, (GM) brown, saturated	
6.8					LEAN CLAY, (CL) dark gray, firm, medium plasticity	
			PID = 1.3			
10.0						
			PID = 0.9		SILT, (ML) gray, very clayey, wet from 10 to 22 feet bgs, dry from 22 to 23 feet bgs, refusal at 23 feet bgs	
			PID = 0.5			
15						
			PID = 0.8			
			PID = 1			
20						
			PID = 1.5			
				23.0		

Refusal at 23.0 feet.  
 Bottom of borehole at 23.0 feet.

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**BORING NUMBER CB-11**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/6/14 **COMPLETED** 2/6/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
2.0					No recovery	Boring backfilled with neat cement grout
2.5					SILTY SAND, (SM) gray, well graded	
			PID = 1.3		FAT CLAY, (CH) brownish olive, soft to firm, high plasticity	
5			PID = 0.6			
			PID = 1.3			
			PID = 0.9			
10			PID = 0.8		No recovery	
			PID = 1			
			PID = 1.3		LEAN CLAY, (CL) brownish olive to dark gray, soft to firm, medium plasticity	
15			PID = 0.8			
			PID = 0.9			
			PID = 1.2			
20			PID = 1		SILT, (CL-ML) dark gray to olive, sandy	
			PID = 1.1			
			PID = 1.3			
			PID = 1			
23.5						

Refusal at 23.5 feet.  
 Bottom of borehole at 23.5 feet.

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**BORING NUMBER CB-12**

Shaping the Future

**CLIENT** Weingarten Realty Investors **PROJECT NAME** 580 Market Place  
**PROJECT NUMBER** 75.75354.0002 **PROJECT LOCATION** 3735-4065 E. Castro Valley Blvd. Castro Valley, CA  
**DATE STARTED** 2/7/14 **COMPLETED** 2/7/14 **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 1 inches  
**DRILLING CONTRACTOR** Vironex **GROUND WATER LEVELS:**  
**DRILLING METHOD** Direct Push Technology **AT TIME OF DRILLING** ---  
**LOGGED BY** T. Hafner **CHECKED BY** GS **AT END OF DRILLING** ---  
**NOTES** \_\_\_\_\_ **AFTER DRILLING** ---

ENVIRONMENTAL.BH - GINT STD US LAB.GDT - 2/21/14 12:53 - C:\DOCUMENTS AND SETTINGS\ALL USERS\BENTLEY\GINT\PROJECTS\CASTRO VALLEY.GPJ

DEPTH (ft)	SAMPLE NUMBER	BLOW COUNTS (N VALUE)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						
				1.5	Asphalt and sandy aggregate base	Boring backfilled with neat cement grout
				6.5	LEAN CLAY, (CL) brown to grayish brown, medium plasticity, very silty	
5				9.0	ORGANIC SOIL, (OH) dark gray, soft, high plasticity	
				11.5	SILT, (ML) greenish gray, low plasticity	
				15.5	LEAN CLAY, (CL) dark gray, soft to stiff, high plasticity, brick observed at 13 feet bgs	
10				17.0	SILT, (ML) dark gray, clayey, sandy, gravelly	
				17.5	ORGANIC SOIL, (OH) gray, low plasticity	
				23.0	SILT, (ML) brown to gray, dry, hard, very clayey	
15						
20						

Bottom of borehole at 23.0 feet.