kerry & associates

REALTORS • APPRAISERS

SUITE 300 • 151 CALLAN AVE. • SAN LEANDRO, CA 94577 • (510) 483-4211
FAX 483-4200

RECEIVED

4:18 pm, Sep 29, 2010

Alameda County
Environmental Health

September 24, 2010

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: Kerry & Associates – Palace Garage
14336 Washington Avenue
San Leandro, California
ACEH Case No. RO0000208

Dear Mr. Detterman,

I declare, under penalty of perjury, that the information and/or recommendations contained in the **Soil Vapor Testing and Additional Assessment Report** and the **Second Quarter 2010 Groundwater Monitoring Report** is true and correct to the best of my knowledge.

Sincerely,

Jeff Kerry

August 30, 2010

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: Soil Vapor Testing and Additional Assessment Report
Kerry & Associates – Former Palace Garage
14336 Washington Avenue
San Leandro, California
ACEH Case No. RO0000208
SFRWQCB LUFT Case No. 01-1133

Dear Mr. Detterman:

On behalf of Kerry & Associates, Closure Solutions Inc. (Closure Solutions) has prepared this *Soil Vapor Testing and Additional Assessment Report* (Report) for the Former Palace Garage Site located at 14336 Washington Avenue, San Leandro, California (the Site, Figure 1). This Report is being submitted in accordance with Closure Solutions' *Soil Vapor Testing and Additional Assessment Work Plan* dated November 13, 2009. The purpose of this investigation is to address data gaps identified by the Alameda County Environmental Health as impediments to closure at the Site. This Report documents the completion of a soil vapor survey and downgradient soil and groundwater sampling.

1.0 INTRODUCTION

1.1 Site Geology and Hydrology

Based on previous soil investigation activities at the Site, the subsurface lithology consists primarily of low permeable clay, silty clay, and clayey silt to approximately 16 feet below ground surface (bgs). This low permeable layer is underlain by poorly graded sands and gravels from approximately 16 feet bgs to the total depth explored of 21 feet bgs. The groundwater flow direction is to the southwest at a typical gradient of 0.005 feet per foot.

1.2 Site Background

A 550-gallon gasoline underground storage tank (UST) was removed from the site in 1991. Subsequent investigations included the installation of 3 monitoring wells and the drilling of 15 borings. Based on data obtained from the wells and borings, impacted unsaturated-zone soil is confined to the area of the former dispenser pad and UST.

In December 2002, Professional Service Industries, Inc. conducted a soil and groundwater investigation to evaluate the lateral extent of petroleum hydrocarbons in the soil and groundwater at the site. Borings SB-16 and SB-17 were advanced to between 20 and 24 feet below ground surface (bgs). Boring SB-16 was converted into monitoring well MW-4. Concentrations of total petroleum hydrocarbons as gasoline (TPHg) and gasoline related contaminants were detected in soil from boring SB-17 only and groundwater from wells MW-1 and MW-2. The locations of the monitoring wells and soil borings are presented in Figure 2.

Closure Solutions conducted a Sensitive Receptor Survey to identify all water supply wells and sensitive receptors within a 2,000-foot radius of the Site. The closest water supply wells are two industrial wells approximately 450 feet northwest (cross-gradient) of the Site. The closest domestic well is approximately 1,500 feet southeast (cross-gradient) of the Site. The closest down-gradient well is an irrigation well approximately 1,400 feet southwest of the Site. No surface water bodies were identified within a 2,000-foot radius of the Site. Results of the Sensitive Receptor Survey are presented in the *Sensitive Receptor Survey* report dated August 27, 2008.

On September 30, 2008 Closure Solutions prepared and submitted a *Site Conceptual Model* (SCM). The preparation of the SCM was requested by Alameda County Environmental Health (ACEH) in their letter dated September 2, 2008.

In an email dated June 12, 2009, Mr. Steve Plunkett with ACEH approved the reduction of groundwater monitoring to a semi-annual basis conducted in second and fourth quarters. Mr. Plunkett also approved the recommendation to eliminate the fuel oxygenates from the suite of laboratory analytes.

On November 13, 2009, Closure Solutions submitted a *Soil Vapor Testing and Additional Assessment Work Plan* to ACEH. The proposed investigation would identify any data gaps at the Site, assess the potential for soil vapor migration and evaluate any health risks posed by the remaining contaminants at the Site. The work plan was not officially approved by ACEH.

On May 14, 2010, Closure Solutions submitted an *Intent to Initiate Work Plan* letter to ACEH stating that Closure Solutions intended to proceed with the proposed scope of work submitted in the November 13, 2009 work plan pursuant to CCR Title 23, Division 3, Chapter 16, Section 2722(e) which states "Implementation of the work plan may begin sixty (60) calendar days after submittal, unless the responsible party is otherwise directed in writing by the regulatory agency." Based on telephone and email correspondence, ACEH indicated that while it was their intent to approve the work plan they were unable to do so due to the case review workload associated with SWRCB Resolution 2009-42.

2.0 SOIL BORING AND SOIL VAPOR PROBE INSTALLATION AND SAMPLING

On July 26, 2010 a Closure Solutions' representative was on site to oversee the installation and sampling of three temporary soil vapor probes (SV-1 through SV-3) and the advancement of one downgradient soil boring (SB-18). All soil vapor probe locations were located approximately 5 feet from the buildings. Boring locations are presented on Figure 2.

2.1 Preliminary Field Activities

Prior to initiating field activities, Closure Solutions obtained the necessary drilling permits for the proposed work, and cleared the Site for subsurface utilities. Utility clearance included notifying Underground Service Alert (USA) of the pending work a minimum of 48 hours prior to initiating the field investigation, and securing the services of a private utility locating company to confirm the absence of underground utilities at each boring location.

A Site Health and Safety Plan (HASP) was prepared for use by personnel implementing the Work Plan. The HASP addressed hazards associated with the proposed field work. A copy of the HASP was available onsite during field work. The subcontractor(s) performing field activities were provided with a copy of the HASP prior to initiating work. A safety tailgate meeting was conducted to review the Site hazards and work scope.

2.2 Boring Procedures

Borings for soil vapor collection and downgradient delineation were completed using direct push technology. As a further measure of protection for utilities that may not have been located during pre-field utility clearance activities, soil boring SB-18 was hand cleared for the first five feet. In order to maintain a competent seal for collecting soil vapors, the soil vapor borings were driven from ground surface to approximately 5 feet bgs. Following boring advancement and sampling activities, neat cement was placed from the bottom of each boring to ground surface then completed with concrete and dyed black to approximately match the surrounding surface.

2.3 Soil Boring Advancement and Sampling Procedures

Closure Solutions supervised the advancement of soil boring SB-18. Soil samples were collected approximately every 4 feet and retained for possible chemical analysis. One soil sample collected at the capillary fringe zone, approximately 16.5 bgs was retained for laboratory analysis. Soil samples were field screened for the presence of residual petroleum hydrocarbon vapor concentrations using a photo-ionization detector (PID). The borehole was not logged for lithology because lithologic data exists from previous soil borings (SB-16 and SB-17), adjacent to SB-18. No undisturbed soil sample was collected for analysis of physical soil parameters since vapor samples were collected from temporary soil vapor probes.

After soil sampling was completed, a grab groundwater sample (SB-18-W) was collected by placing a screened PVC casing in the boring. A clean disposable bailer was used to retrieve groundwater for filling sample containers.

Soil samples retained for chemical analysis were collected in acrylic sleeves, covered at each end with Teflon™ sheeting, capped with plastic end caps, labeled, and placed in a cooler with ice. Collected grab groundwater samples were placed in 40 milliliter vials with hydrochloric acid preservative and placed in the same ice filled cooler.

All collected samples were submitted under chain-of-custody protocol to SunStar Laboratory (SunStar) of Lake Forest California, a California State-certified analytical laboratory. Soil and groundwater samples were analyzed for TPHg, benzene, toluene, ethylbenzene and xylenes (BTEX constituents) using EPA Method 8260B.

2.4 Soil Vapor Probe Installation

Soil vapor samples were collected by pushing a hollow stainless steel rod connected to a soil vapor probe into the soil with a direct push rig. Once the desired depth was reached, ¼-inch outside diameter Teflon™ tubing was inserted inside the drill rod and attached to the vapor probe. The drill rod was then retracted approximately 6 inches from the borehole to expose the vapor probe. After soil vapor sampling was completed the vapor probe was removed and a soil sampler was driven to approximately 5.5 feet bgs to collect soil samples to confirm subsurface conditions. All three vapor probe locations were located in a tight lean clay.

2.5 Soil Vapor Sampling

Soil vapor sampling was conducted in accordance with Department of Toxic Substance and Control's document *Advisory – Active Soil Gas Investigations* dated January 2003 and updated by California Environmental Protection Agency, March 2010.

- Soil vapor samples were collected at least five days after any measurable precipitation event.
- Prior to sampling, hydrated bentonite was placed around the drill rod where it came in contact with the asphalt surface and the polyethylene tubing where it exited the drill rod, to inhibit surface air migration down the inner and outer portion of the drill rod.
- Prior to sampling, Closure Solutions performed a leak check by placing isopropyl alcohol on the sample line fittings and the top of the vapor probe tubing (where the tubing exited the boring).

- Three volumes of air were purged from the sample tubing before collecting the vapor samples.

- Summa canisters with a vacuum gauge and flow restrictor with a flow rate of 100-200 milliliters/minute were used during collection of soil vapor samples and a background sample

- An air sample was collected inside the building within the worker breathing zone at a height of approximately 5 feet.

The soil vapor samples were transported under chain of custody to SunStar. Samples were analyzed by EPA Method TO-15 for TPHg and BTEX compounds, and isopropyl alcohol as the leak tracer. In addition, carbon dioxide, oxygen, methane and nitrogen were analyzed by ASTM D-1946.

3.0 ANALYTICAL RESULTS

3.1 Soil and Grab Groundwater Results

Chemical analysis of soil samples did not report any petroleum hydrocarbons above laboratory reporting limits. Analysis of the grab groundwater sample reported benzene at a concentration of 0.79 micrograms per liter (µg/l). All other petroleum hydrocarbons were not reported above laboratory reporting limits. Soil and grab groundwater analytical data is summarized on Tables 1 and 2, respectively and certified analytical reports are included as Attachment A.

3.2 Soil Vapor Results

Chemical analysis of soil vapor samples reported TPHg in two samples with a maximum concentration of 85,000 micrograms per cubic meter (µg/m^3) in SV-1. Benzene was detected in all three samples with a maximum concentration of 880 µg/m^3 in SV-1. Toluene was detected in two samples with a maximum concentration of 87 µg/m^3 in SV-3. Ethylbenzene and total xylenes were reported in all three samples with maximum concentrations of 8,900 µg/m^3 and 6,200 µg/m^3 in SV-1, respectively. Isopropyl alcohol was not reported above laboratory reporting limits in any of the samples indicating that there were no leaks in the sample train. Soil vapor analytical results are presented in Figure 3 and summarized in Table 3. Copies of soil vapor analytical laboratory reports are included as Attachment B.

4.0 SOIL VAPOR INTRUSION EVALUATION

Closure Solutions evaluated shallow soil gas environmental screening levels (ESLs) for vapor intrusion concerns in an commercial/industrial land use set by the San Francisco Bay Regional

Water Quality Control Board's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater – Interim Final*, November 2007, revised May 2008, Table E. Petroleum hydrocarbon compounds exist in vapor phase in soil beneath the Site. TPHg, benzene, and ethylbenzene were detected above ESLs for commercial/industrial land use in vapor probe SV-1 only, which is adjacent to the former dispenser pad in the known source area. Concentrations reported in probes SV-2 and SV-3 are up to 3-orders of magnitude below commercial/industrial land use ESLs. Vapor probe SV-2 is located approximately 18 feet west of SV-1 and concentrations reported in SV-2 show attenuation of 1-3 orders of magnitude within this distance from the source area. In addition to the reduction in concentrations with distance, the building is currently occupied by an auto body painting business which requires ventilation provided by mechanical means. The Site is paved and land use at the Site is expected to continue as an auto body painting facility and remain as such in the foreseeable future. Therefore vapor intrusion is not expected to be a concern at the Site

5.0 WASTE DISPOSAL

No investigation derived waste was generated during the investigation. Soil waste generated from hand auguring was returned to boring SB-18 prior to grouting.

6.0 GEOTRACKER

In accordance Assembly Bill 2886, Closure Solutions has uploaded analytical data, copies of bore logs, well survey data, and the final report related to this investigation to GeoTracker.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The analytical data collected from SB-18 has identified the lateral extent of impacted soil and groundwater in the downgradient direction. Based on the soil vapor sample results, concentrations of constituents of concern exist in vapor phase in soil above established commercial/industrial land use screening levels. However, soil vapor concentrations decline by an order of magnitude within a short distance from the former dispenser location. In addition, current and future operations at the Site require ventilation provided by mechanical means. Because of this, it is not reasonably expected that subsurface vapor concentrations pose an undue risk to onsite workers. Based on the data collected during this additional assessment Closure Solutions recommends the preparation of a No Further Action Request.

8.0 LIMITATIONS

This report is based on Site conditions, data, and other information available as of the date of the report, and the conclusions and recommendations herein are applicable only to the time frame in which the report was prepared. Background information used to prepare this report including, but not limited to, previous field measurements, analytical results, Site plans and other data that has been furnished to Closure Solutions by Kerry & Associates and as available on the GeoTracker website. Closure Solutions has relied on this information as furnished, and is neither responsible for nor has confirmed the accuracy of this information.

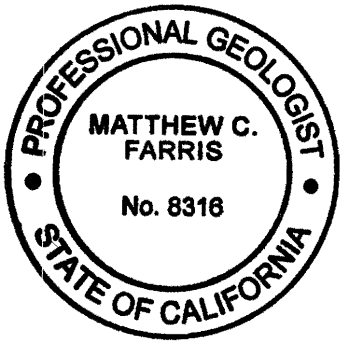
We appreciate the opportunity to present this document and trust that it meets with your approval. If you have any questions or concerns, please contact Ms. Kathleen Waldo at (916) 760-7025 or at kwaldo@closuresolutions.com.

Sincerely,

Closure Solutions, Inc.

Kathleen Waldo
Project Engineer

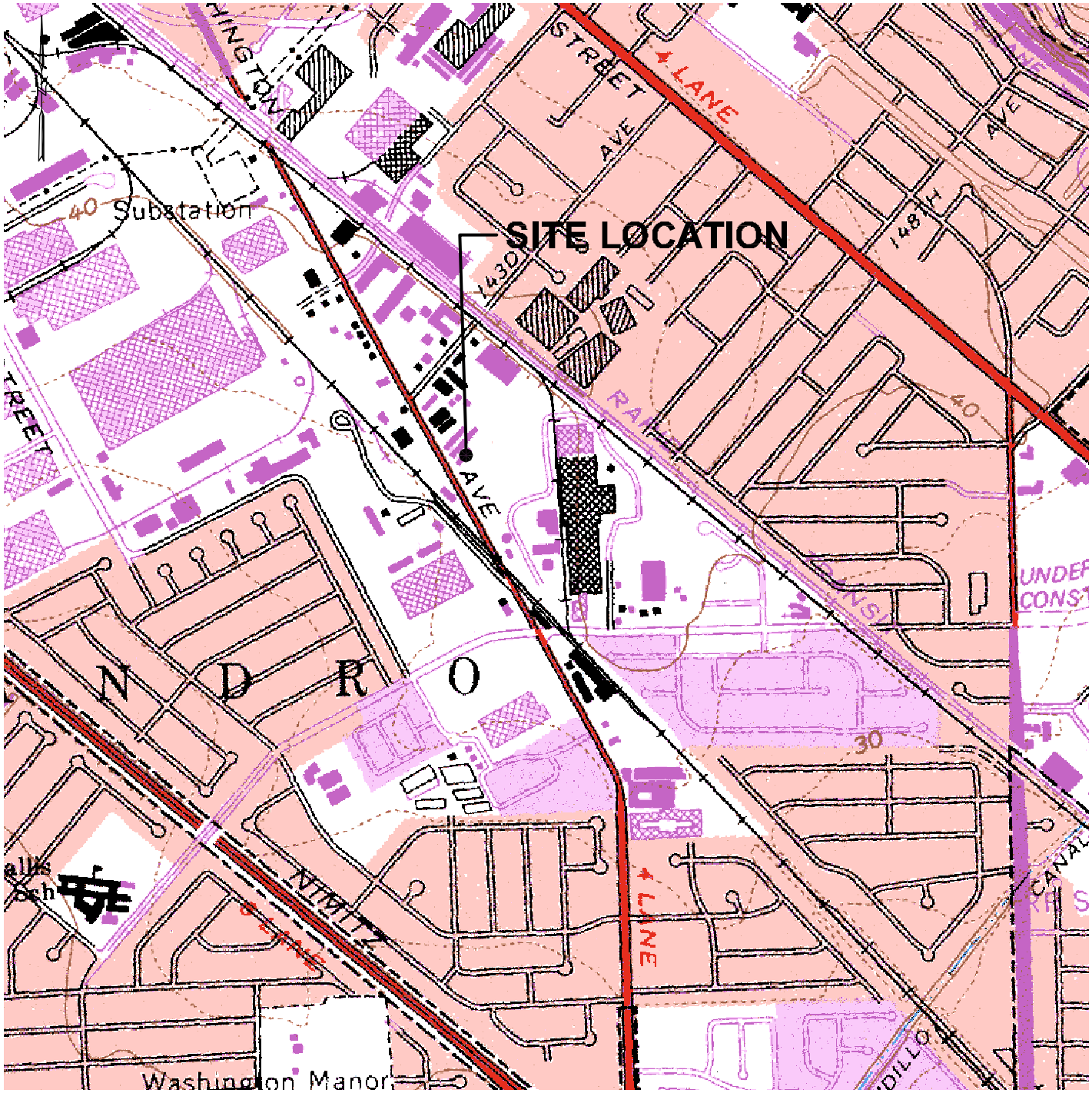
Matthew Farris, P.G.
Project Geologist



ATTACHMENTS:

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Soil Vapor Probe Analytical Results
Table 1	Soil Analytical Data
Table 2	Grab Groundwater Analytical Data
Table 3	Soil Vapor Analytical Data
Attachment A	Soil and Groundwater Analytical Laboratory Reports
Attachment B	Soil Vapor Analytical Laboratory Reports

cc: Mr. Jeff Kerry



REFERENCE:
USGS 7.5 MIN QUAD MAP TITLED:SAN LEANDRO, CALIFORNIA DATED: 1959 REV: 1980

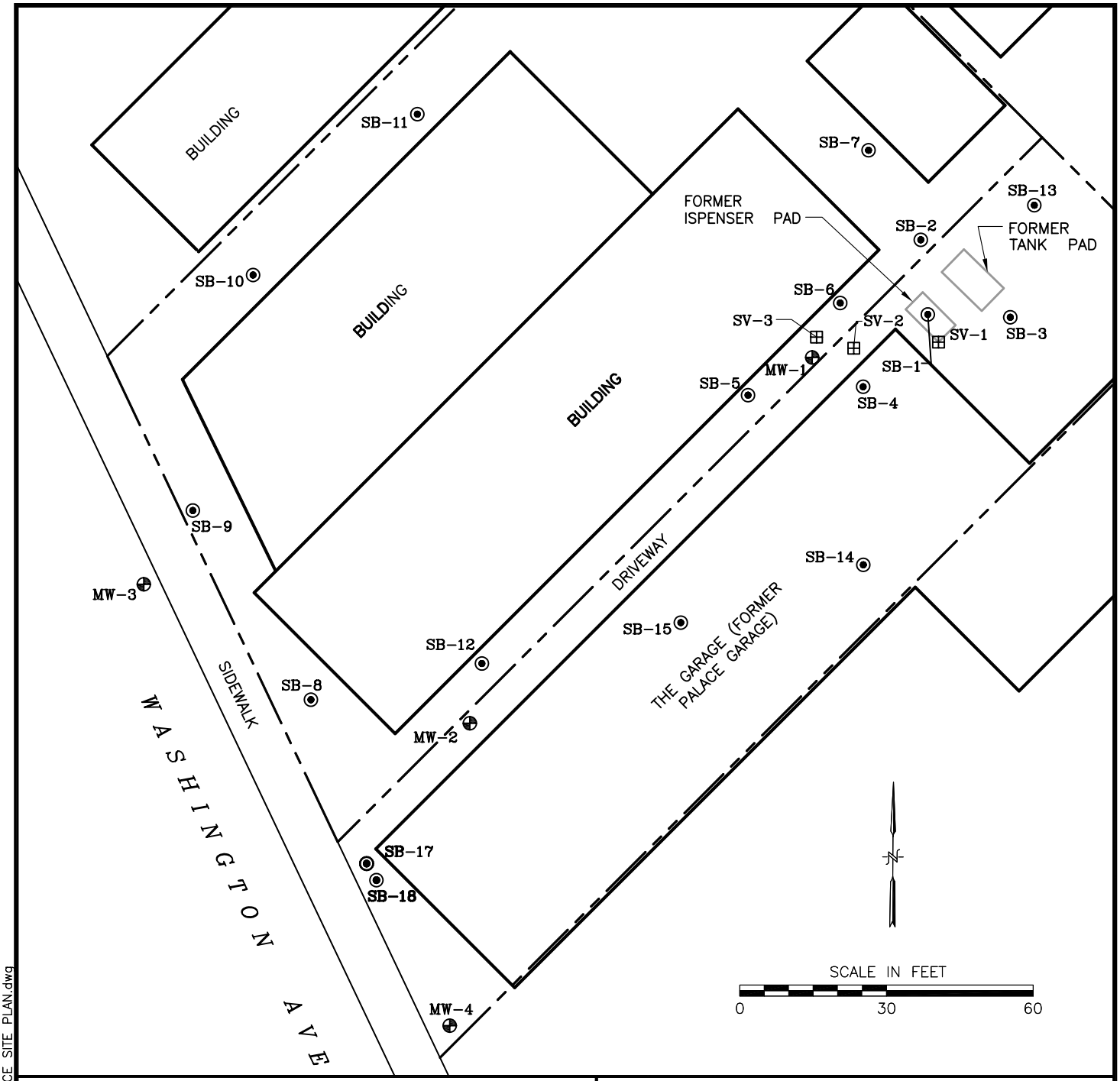
FIGURE 1

SITE LOCATION MAP

PALACE GARAGE
14336 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

CLOSURE SOLUTIONS, INC.
2151 Salvio Street • Suite 301
Concord • California • 94520
Phone: (925) 429-5555 • Fax: (925) 459-5602

20100601.11524081 D:\Client Drawings\Closure\palace garage\PALACE GARAGE VICINITY MAP.dwg



LEGEND:

- GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING LOCATION
- SOIL VAPOR PROBE
- PROPERTY LINE

NOTES:

1. BASEMAP SOURCE: MORROW SURVEYING, 2/05/03

FIGURE 2

SITE PLAN

PALACE GARAGE
14336 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

CLOSURE SOLUTIONS, INC.
2151 Salvio Street • Suite 301
Concord • California • 94520
Phone: (925) 429-5555 • Fax: (925) 459-5602

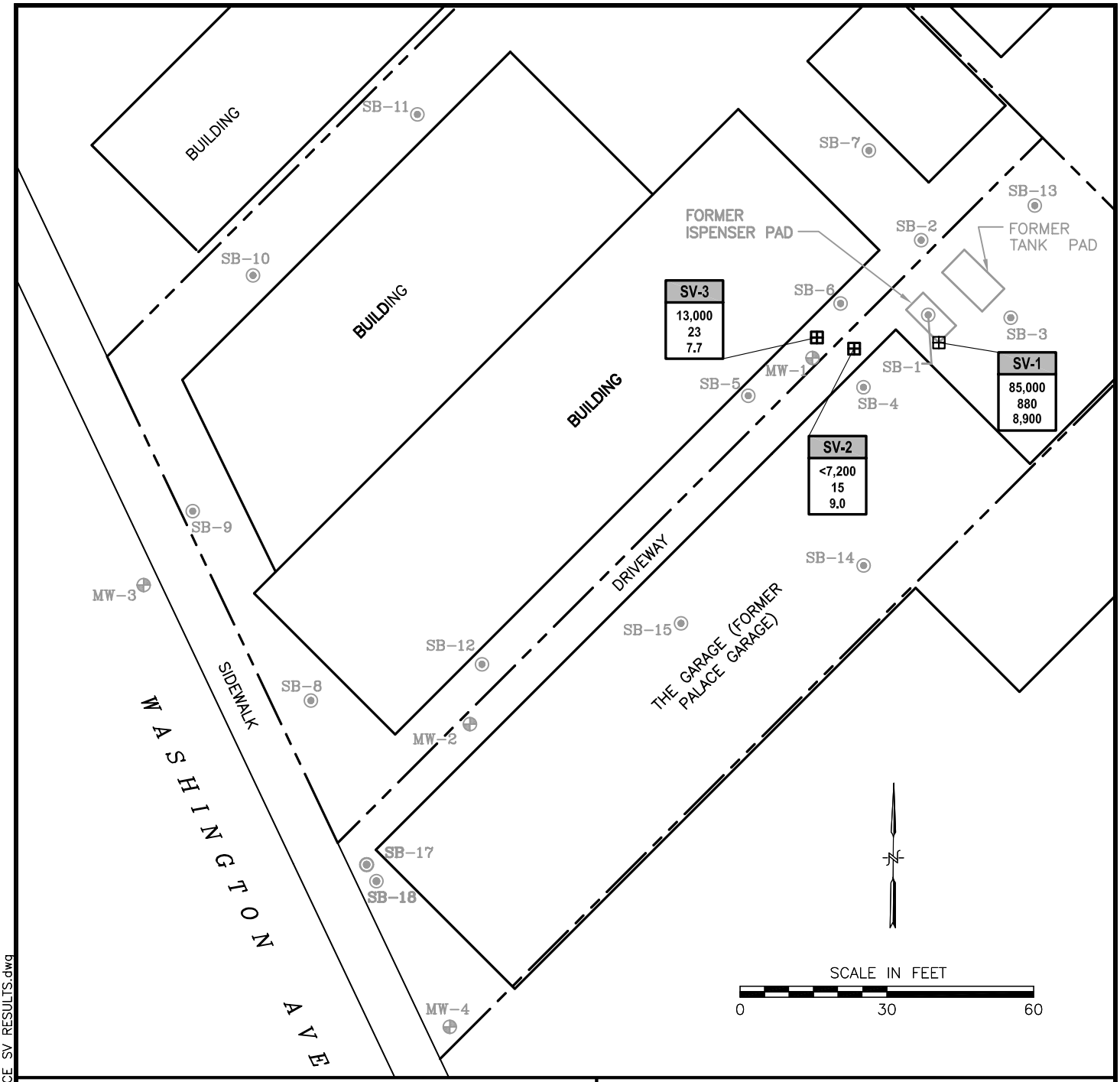


FIGURE 3

SOIL VAPOR PROBE ANALYTICAL RESULTS

PALACE GARAGE
14336 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA

LEGEND:

- GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING LOCATION
- SOIL VAPOR PROBE
- PROPERTY LINE
- WELL DESIGNATION
- TPHg, BENZENE, and ETHYLBENZENE CONCENTRATIONS (µg/m³)

WELL
TPHg
BENZENE
ETYLBENZENE

NOTES:

1. BASEMAP SOURCE: MORROW SURVEYING, 2/05/03

CLOSURE SOLUTIONS, INC.
2151 Salvio Street • Suite 301
Concord • California • 94520
Phone: (925) 429-5555 • Fax: (925) 459-5602

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Table 1
Soil Analytical Data

Former Palace Garage
14336 Washington Avenue
San Leandro, California

Sample ID	Date Sampled	Sample Depth (feet bgs)	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
SB-18-16.5	7/26/2010	16.5	ND<0.5	ND<0.005	ND<0.005	ND<0.005	ND<0.010

Abbreviations:

GRO	=	Gasoline range organics C6-C12
bgs	=	Below ground surface
mg/kg	=	Milligrams per kilogram
ND	=	Not detected above noted laboratory reporting limit

Table 2
Grab Groundwater Analytical Data

Former Palace Garage
14336 Washington Avenue
San Leandro, California

Sample ID	Date Sampled	GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
SB-18W	7/26/2010	ND<50	0.79	ND<0.50	ND<0.50	ND<1.5

Abbreviations:

GRO	=	Gasoline range organics C6-C12
ug/L	=	Micrograms per liter
ND	=	Not detected above noted laboratory reporting limit

Table 3
Soil Vapor Analytical Data

Former Palace Garage
14336 Washington Avenue
San Leandro, California

Sample ID	Date Sampled	Sample Depth (feet bgs)	TPHg (ug/m^3)	Benzene (ug/m^3)	Toluene (ug/m^3)	Ethyl-benzene (ug/m^3)	Total Xylenes (ug/m^3)	2-Propanol (ug/m^3)	Methane (ug/m^3)	Carbon Dioxide (%)	Oxygen (%)	Nitrogen (%)
SV-1	07/26/10	5	**85,000**	**880**	<190	**8,900**	6,200	<130	6,500	<0.18	20.2	82.7
SV-2	07/26/10	5	<7,200	15	58	9.0	32	<13	<3,300	<0.19	20.1	81.3
SV-2 DUP	07/26/10	5	<7,200	15	55	8.8	30	<13	<3,300	<0.18	19.7	80.7
SV-3	07/26/10	5	13,000	23	87	7.7	41	<13	<3,300	<0.19	20.5	83.5
Outdoor Air	07/26/10		<7,200	<3.3	6.2	<4.4	<13.2	<13	<3,300	<0.19	19.6	79.9
ESLs for Shallow Soil Gas (C/I)[1]			29,000	280	180,000	3,300	58,000	NE	NE	NE	NE	NE

Abbreviations:

TPHg	=	Total Petroleum Hydrocarbons as gasoline
ug/m^3	=	micrograms per cubic meter
NE	=	not established
Bold	=	detection above ESLs
1	=	Environmental Screening Levels (ESLs) for soil gas (Vapor Intrusion Concerns) for commercial/industrial land use from the 2007 Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater- Interim Final by the California Regional Water Quality Control Board, San Francisco Bay Region, November 2007, revised May 2008, Table E

Notes:
Analysis performed by SunStar Laboratories, Inc., Lake Forest, California
All sample containers were 1-Liter Summa Canisters
TPHg, benzene, toluene, ethylbenzene, and total xylenes were analyzed by EPA Method TO-15
Carbon dioxide, oxygen, methane and nitrogen were analyzed by EPA Method ASTM D-1946

Attachment A

Soil and Groundwater Analytical Laboratory Reports

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

26 August 2010

Kate Waldo
Closure Solutions
2151 Salvio Street, Suite 301
Concord, CA 94520

RE: Palace Garage

Enclosed are the results of analyses for samples received by the laboratory on 07/27/10 11:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore
Director of Business Development

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-18-16.5	T000741-03	Soil	07/26/10 10:35	07/27/10 11:05
SB-18W	T000741-04	Water	07/26/10 10:40	07/27/10 11:05

SunStar Laboratories, Inc.

Kevin Moore, Director of Business Development

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

SB-18-16.5

T000741-03 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0072813	07/28/10	07/29/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.0050	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
C6-C12 (GRO)	ND	0.50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*74.4 %*	*75.1-121*		"	"	"	"	*S-GC*
Surrogate: Dibromofluoromethane		*131 %*	*90-135*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kevin Moore, Director of Business Development

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

SB-18W

T000741-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.79**	0.50	ug/l	1	0072708	07/27/10	07/28/10	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*84.7-109*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.4 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*	*81.1-136*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kevin Moore, Director of Business Development

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0072708 - EPA 5030 GCMS										
Blank (0072708-BLK1)				Prepared: 07/27/10 Analyzed: 07/28/10						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
C6-C12 (GRO)	ND	50	"							
Surrogate: Toluene-d8	*8.06*		*"*	*8.00*		*101*	*84.7-109*			
Surrogate: 4-Bromofluorobenzene	*7.23*		*"*	*8.00*		*90.4*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.79*		*"*	*8.00*		*110*	*81.1-136*			
LCS (0072708-BS1)				Prepared: 07/27/10 Analyzed: 07/28/10						
Benzene	21.9	0.50	ug/l	20.0		109	75-125			
Toluene	21.2	0.50	"	20.0		106	75-125			
Surrogate: Toluene-d8	*7.96*		*"*	*8.00*		*99.5*	*84.7-109*			
Surrogate: 4-Bromofluorobenzene	*8.39*		*"*	*8.00*		*105*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.76*		*"*	*8.00*		*122*	*81.1-136*			
Matrix Spike (0072708-MS1)		**Source: T000741-04**		Prepared: 07/27/10 Analyzed: 07/28/10						
Benzene	22.5	0.50	ug/l	20.0	0.790	108	75-125			
Toluene	21.4	0.50	"	20.0	ND	107	75-125			
Surrogate: Toluene-d8	*8.05*		*"*	*8.00*		*101*	*84.7-109*			
Surrogate: 4-Bromofluorobenzene	*8.28*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.99*		*"*	*8.00*		*112*	*81.1-136*			
Matrix Spike Dup (0072708-MSD1)		**Source: T000741-04**		Prepared: 07/27/10 Analyzed: 07/28/10						
Benzene	21.2	0.50	ug/l	20.0	0.790	102	75-125	5.67	20	
Toluene	21.1	0.50	"	20.0	ND	105	75-125	1.69	20	
Surrogate: Toluene-d8	*8.26*		*"*	*8.00*		*103*	*84.7-109*			
Surrogate: 4-Bromofluorobenzene	*8.22*		*"*	*8.00*		*103*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.20*		*"*	*8.00*		*102*	*81.1-136*			

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Kevin Moore, Director of Business Development

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0072813 - EPA 5030 GCMS										
Blank (0072813-BLK1)				Prepared: 07/28/10 Analyzed: 07/29/10						
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.0050	"							
o-Xylene	ND	0.0050	"							
C6-C12 (GRO)	ND	0.50	"							
Surrogate: Toluene-d8	*0.0392*		*"*	*0.0400*		*98.0*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*0.0330*		*"*	*0.0400*		*82.6*	*75.1-121*			
Surrogate: Dibromofluoromethane	*0.0517*		*"*	*0.0400*		*129*	*90-135*			
LCS (0072813-BS1)				Prepared: 07/28/10 Analyzed: 07/29/10						
Chlorobenzene	0.0778	0.0050	mg/kg	0.100		77.8	75-125			
1,1-Dichloroethene	0.116	0.0050	"	0.100		116	75-125			
Trichloroethene	0.0890	0.0050	"	0.100		89.0	75-125			
Benzene	0.0928	0.0050	"	0.100		92.8	75-125			
Toluene	0.0811	0.0050	"	0.100		81.1	75-125			
Surrogate: Toluene-d8	*0.0380*		*"*	*0.0400*		*95.1*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*0.0375*		*"*	*0.0400*		*93.8*	*75.1-121*			
Surrogate: Dibromofluoromethane	*0.0484*		*"*	*0.0400*		*121*	*90-135*			
Matrix Spike (0072813-MS1)	**Source: T000741-03**			Prepared: 07/28/10 Analyzed: 07/29/10						
Chlorobenzene	0.0902	0.0050	mg/kg	0.100	ND	90.2	75-125			
1,1-Dichloroethene	0.124	0.0050	"	0.100	ND	124	75-125			
Trichloroethene	0.0988	0.0050	"	0.100	ND	98.8	75-125			
Benzene	0.0988	0.0050	"	0.100	ND	98.8	75-125			
Toluene	0.0936	0.0050	"	0.100	ND	93.6	75-125			
Surrogate: Toluene-d8	*0.0390*		*"*	*0.0400*		*97.6*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*0.0422*		*"*	*0.0400*		*106*	*75.1-121*			
Surrogate: Dibromofluoromethane	*0.0512*		*"*	*0.0400*		*128*	*90-135*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0072813 - EPA 5030 GCMS										
Matrix Spike Dup (0072813-MSD1)		**Source: T000741-03**		Prepared: 07/28/10		Analyzed: 07/29/10				
Chlorobenzene	0.0926	0.0050	mg/kg	0.100	ND	92.6	75-125	2.57	20	
1,1-Dichloroethene	0.119	0.0050	"	0.100	ND	119	75-125	3.71	20	
Trichloroethene	0.0949	0.0050	"	0.100	ND	94.9	75-125	4.03	20	
Benzene	0.106	0.0050	"	0.100	ND	106	75-125	6.70	20	
Toluene	0.0952	0.0050	"	0.100	ND	95.2	75-125	1.75	20	
Surrogate: Toluene-d8	*0.0388*		"	*0.0400*		*96.9*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*0.0424*		"	*0.0400*		*106*	*75.1-121*			
Surrogate: Dibromofluoromethane	*0.0608*		"	*0.0400*		*152*	*90-135*			*S-GC*

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/26/10 15:43

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

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Kevin Moore, Director of Business Development

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Closure Solutions
Address: 2151 Salvio St. Concord, CA
Phone: 925-808-9290 Fax:
Project Manager: K. Waldo

Date: 7/26/10 Page: 1 Of 1
Project Name: Palace Garage
Collector: M. Farris Client Project #:
Batch #: T000741 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 + BTEX	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
SB-18-11.5	7/26/10	10:20	Soil	Sleeve														01	Hold	1
SB-18-15.5		10:25	"	"														02	Hold	1
SB-18-16.5		10:35	Soil	Sleeve	X													03		1
SB-18W		10:40	Water	VOA	X													04	1 HCL	5
SV-2-5		13:20	Soil	Sleeve														05	Hold	1
SV-3-5		14:00	Soil	Sleeve														06	Hold	1

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Matt Farris	7/26/15 1700	Fed Ex	7/26/10 1700
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Fed Ex	7/27/10 11:05		7/27/10 11:05

Total # of containers	10
Chain of Custody seals Y/N/NA	NA
Seals intact? Y/N/NA	NA
Received good condition/cold	3.0

Turn around time:

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 92781

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T000741

Client Name: Closure Solutions Project: Palace Garage

Received by: Brian Date/Time Received: 7/27/10 1105

Delivered by : ☐ Client ☐ SunStar Courier ☐ GSO ☒ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 3.2 °C +/- the CF (- 0.2°C) = 3.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☐Yes	☐No*	☒N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date RM 7/27/10

Comments:

_____

_____

_____

_____

Attachment B

Soil Vapor Analytical Laboratory Reports

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 August 2010

Kate Waldo
Closure Solutions
2151 Salvio Street, Suite 301
Concord, CA 94520

RE: Palace Garage

Enclosed are the results of analyses for samples received by the laboratory on 07/27/10 11:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Moore
Director of Business Development

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1	T000742-01	Air	07/26/10 12:02	07/27/10 11:05
SV-2	T000742-02	Air	07/26/10 13:00	07/27/10 11:05
SV-2 DUP	T000742-03	Air	07/26/10 13:00	07/27/10 11:05
SV-3	T000742-04	Air	07/26/10 13:45	07/27/10 11:05
OUTDOOR AIR	T000742-05	Air	07/26/10 14:30	07/27/10 11:05

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

SV-1

T000742-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
Isopropyl alcohol	ND	130	ug/m³ Air	1.83	0072706	07/27/10	08/03/10	TO-15	
Benzene	**880**	160	"	"	"	"	"	"	
Toluene	ND	190	"	"	"	"	"	"	
Ethylbenzene	**8900**	220	"	"	"	"	"	"	
m,p-Xylene	**6200**	220	"	"	"	"	"	"	
o-Xylene	ND	220	"	"	"	"	"	"	
C6-C12 (GRO)	**85000**	7200	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*%*	*40-160*		"	"	"	"	
Methane by GC									
Methane	**6500**	3300	ug/m³ Air	1	0072705	07/27/10	08/02/10	8015M	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	0.18	%	1.83	0072704	"	08/03/10	GC	
Oxygen	**20.2**	0.18	"	"	"	"	"	"	
Nitrogen	**82.7**	0.18	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

SV-2

T000742-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Isopropyl alcohol	ND	13	ug/m³ Air	1.86	0072706	07/27/10	08/03/10	TO-15	
Benzene	**15**	3.3	"	"	"	"	"	"	
Toluene	**58**	3.8	"	"	"	"	"	"	
Ethylbenzene	**9.0**	4.4	"	"	"	"	"	"	
m,p-Xylene	**14**	8.8	"	"	"	"	"	"	
o-Xylene	**18**	4.4	"	"	"	"	"	"	
C6-C12 (GRO)	ND	7200	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*40-160*		"	"	"	"	
Methane by GC									
Methane	ND	3300	ug/m³ Air	1	0072705	07/27/10	08/02/10	8015M	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	0.19	%	1.86	0072704	"	08/03/10	GC	
Oxygen	**20.1**	0.19	"	"	"	"	"	"	
Nitrogen	**81.3**	0.19	"	"	"	"	"	"	

SunStar Laboratories, Inc.

Kevin Moore, Director of Business Development

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

SV-2 DUP

T000742-03 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Isopropyl alcohol	ND	13	ug/m³ Air	1.85	0072706	07/27/10	08/03/10	TO-15	
Benzene	**15**	3.3	"	"	"	"	"	"	
Toluene	**55**	3.8	"	"	"	"	"	"	
Ethylbenzene	**8.8**	4.4	"	"	"	"	"	"	
m,p-Xylene	**13**	8.8	"	"	"	"	"	"	
o-Xylene	**17**	4.4	"	"	"	"	"	"	
C6-C12 (GRO)	ND	7200	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*40-160*		"	"	"	"	
Methane by GC									
Methane	ND	3300	ug/m³ Air	1	0072705	07/27/10	08/02/10	8015M	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	0.18	%	1.85	0072704	"	08/03/10	GC	
Oxygen	**19.7**	0.18	"	"	"	"	"	"	
Nitrogen	**80.7**	0.18	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

SV-3

T000742-04 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Isopropyl alcohol	ND	13	ug/m³ Air	1.88	0072706	07/27/10	08/03/10	TO-15	
Benzene	**23**	3.3	"	"	"	"	"	"	
Toluene	**87**	3.8	"	"	"	"	"	"	
Ethylbenzene	**7.7**	4.4	"	"	"	"	"	"	
m,p-Xylene	**14**	8.8	"	"	"	"	"	"	
o-Xylene	**27**	4.4	"	"	"	"	"	"	
C6-C12 (GRO)	**13000**	7200	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.9 %*	*40-160*		"	"	"	"	
Methane by GC									
Methane	ND	3300	ug/m³ Air	1	0072705	07/27/10	08/02/10	8015M	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	0.19	%	1.88	0072704	"	08/03/10	GC	
Oxygen	**20.5**	0.19	"	"	"	"	"	"	
Nitrogen	**83.5**	0.19	"	"	"	"	"	"	

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

OUTDOOR AIR

T000742-05 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Isopropyl alcohol	ND	13	ug/m³ Air	1.9	0072706	07/27/10	08/03/10	TO-15	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	**6.2**	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
C6-C12 (GRO)	ND	7200	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.7 %*	*40-160*		"	"	"	"	
Methane by GC									
Methane	ND	3300	ug/m³ Air	1	0072705	07/27/10	08/02/10	8015M	
Fixed Gases ASTM D1946-90									
Carbon Dioxide	ND	0.19	%	1.9	0072704	"	08/03/10	GC	
Oxygen	**19.6**	0.19	"	"	"	"	"	"	
Nitrogen	**79.9**	0.19	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0072706 - General Prep VOC-MS										
Blank (0072706-BLK1)				Prepared: 07/27/10 Analyzed: 08/03/10						
Isopropyl alcohol	ND	13	ug/m³ Air							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
C6-C12 (GRO)	ND	7200	"							
Surrogate: 4-Bromofluorobenzene	*29.3*		"	*45.3*		*64.6*	*40-160*			
Duplicate (0072706-DUP1)		**Source: T000742-01**		Prepared: 07/27/10 Analyzed: 08/03/10						**TO-14**
Isopropyl alcohol	11.5	130	ug/m³ Air		11.3			2.01	30	
Benzene	804	160	"		877			8.61	30	
Toluene	104	190	"		121			15.1	30	
Ethylbenzene	8320	220	"		8860			6.22	30	
m,p-Xylene	5790	220	"		6240			7.51	30	
o-Xylene	106	220	"		98.5			7.58	30	
C6-C12 (GRO)	81100	7200	"		85100			4.82	30	
Surrogate: 4-Bromofluorobenzene	*0.00*		"	*45.3*			*40-160*			

SunStar Laboratories, Inc.

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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

Methane by GC - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0072705 - General Prep VOC-GC										
Blank (0072705-BLK1)				Prepared: 07/27/10 Analyzed: 08/02/10						
Methane	ND	3300	ug/m³ Air							
Duplicate (0072705-DUP1)			**Source: T000742-01**	Prepared: 07/27/10 Analyzed: 08/02/10						
Methane	6170	3300	ug/m³ Air		6550			6.01	20	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kevin Moore, Director of Business Development

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Closure Solutions	Project: Palace Garage	
2151 Salvio Street, Suite 301	Project Number: [none]	**Reported:**
Concord CA, 94520	Project Manager: Kate Waldo	08/11/10 07:30

Fixed Gases ASTM D1946-90 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0072704 - General Prep VOC-GC										
Blank (0072704-BLK1)				Prepared: 07/27/10 Analyzed: 08/03/10						
Carbon Dioxide	ND	0.10	%							
Oxygen	ND	0.10	"							
Nitrogen	ND	0.10	"							
Duplicate (0072704-DUP1)		**Source: T000742-01**		Prepared: 07/27/10 Analyzed: 08/03/10						
Carbon Dioxide	ND	0.18	%		0.00				20	
Oxygen	20.0	0.18	"		20.2			1.00	20	
Nitrogen	81.8	0.18	"		82.7			1.18	20	

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Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference