

March 7, 2007

Mr. Steven Plunkett Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE: Fourth Quarter 2006 Monitoring Report Palace Garage 14336 Washington Avenue San Leandro, California PSI Project No.: 575-66018

Dear Mr. Plunkett:

Professional Service Industries, Inc. (PSI) is pleased to submit the Fourth Quarter 2006 Groundwater Monitoring Report for the above referenced site. PSI refers you to the report for details.

If you have any questions regarding this report or any aspect of the project, please do not hesitate to call.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Frank R. Poss Senior Technical Professional

cc: Mr. Jeff Kerry, Kerry & Associates



FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT

PALACE GARAGE 14336 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA

FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT

PALACE GARAGE 14336 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA

prepared for

Kerry & Associates 151 Callan Avenue, Suite 300 San Leandro, California 94577

prepared by

Professional Service Industries, Inc.

4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200

> January 29, 2007 575-6G018

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STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The information provided in this Site Investigation prepared by PSI, Project Number 575-6G018, is intended exclusively for Kerry & Associates for the evaluation of groundwater contamination as it pertains to the subject property in San Leandro, California at the time the activities were conducted. The professional services provided have been performed in accordance with practices generally accepted by other environmental professionals, geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface soil and groundwater sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or hazardous substances or chemicals in the soil or groundwater.

This report is issued with the understanding that Kerry & Associates is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency. This report has been reviewed by a geologist who is registered in the State of California and whose signature and license number appear below.

Professional Service Industries, Inc.

Frank R. Poss, R.E.A. Senior Hydrogeologist

FD GA BRAND W. BURFIELD Brand Burfield, P.G. 6986 NO. 6986 Project/Geologist

1.0 INTRODUCTION

This report summarizes the results of the Fourth Quarter 2006 groundwater monitoring activities conducted on December 21, 2006 at 14336 Washington Avenue, in San Leandro, California (site; Figure 1).

1.1 Site Background

PSI has reviewed information provided by Kerry & Associates and understands that 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. The groundwater flow direction appears to be toward the southwest. Historically, concentrations of Total Petroleum Hydrocarbons as Gasoline (TPH-G) at the site have been detected as high as 52 milligrams per liter (mg/l) with benzene concentrations as high as 1.9 mg/l.

In December 2002, PSI conducted a soil and groundwater investigation to help define the lateral extent of petroleum hydrocarbons in the soil and groundwater at the site. Borings B-16 and B-17 were advanced to between 20 and 24 feet below ground surface. Boring B-16 was converted into monitoring well MW-4. Concentrations of TPH-G and gasoline-related contaminants were detected only in soil from boring B-17 and groundwater from wells MW-1 and MW-2. The locations of the monitoring wells are presented in Figure 2.

2.0 GROUNDWATER MONITORING ACTIVITIES

2.1 Groundwater Elevation and Hydraulic Gradient

On December 21, 2006, the depth to groundwater was measured in three out of the four existing groundwater monitoring wells at the project site. Monitoring well (MW-3) was not accessible because a vehicle was parked over it and the owner was not available to move it. The groundwater depths were measured using a groundwater probe to an accuracy of 0.01 foot. The groundwater measurements were converted to groundwater elevation data using the surveyed top-of-casing elevations (see Table 1). The groundwater flow direction was estimated to be toward the west with a hydraulic gradient of 0.005. A groundwater contour map is presented as Figure 2.

2.2 Groundwater Sampling

On December 21, 2006, groundwater samples were collected from two monitoring wells (MW-1 and MW-4) at the project site. The other monitoring wells (MW-2 and MW-3) were not accessible; MW-2 was covered with standing water due to seasonal rains at the time of sampling, and MW-3 was not accessible because of a vehicle parked over it. Prior to the collection of groundwater samples, the monitoring wells were purged of approximately three well volumes of water until pH, conductivity, and temperature stabilized. Well MW-4 was purged dry and was subsequently sampled as soon as recharged allowed. Purge logs are presented in Appendix A.

The following procedures for well monitoring, well purging, and water sampling were implemented while sampling the wells:

- 1. All non-dedicated equipment was washed prior to entering the well with an Alconox solution, followed by a deionized water rinse.
- 2. Prior to purging the wells, depth to water was measured using a groundwater interface probe to an accuracy of 0.01 foot. The measurements were made to the top of the well casing on the north side.
- 3. The monitoring wells were purged of approximately three well volumes of water until pH, conductivity, and temperature stabilized. The wells were purged with a single-use dedicated bailer.
- 4. Water samples were collected with the, single-use disposable bailer after the well had been purged. The water collected was immediately decanted into laboratory-supplied vials and bottles. The containers were overfilled, capped, labeled, and placed in a chilled cooler prior to delivery at the laboratory for analysis.

- 5. Chain-of-custody procedures, including chain-of-custody forms, were used to document water sample handling and transport from collection to delivery at the laboratory for analyses.
- 6. Groundwater samples were delivered to the State-certified environmental laboratory within 24-hours of collection.
- 7. Purged water was contained in a DOT approved 55-gallon drum. The drum was labeled with the contents, date, well number, client name, and project number.

2.3 Laboratory Analysis Results, and Discussion

Two groundwater samples were submitted for analyses to Sunstar Laboratories of Tustin, California, a State of California certified environmental analytical laboratory. The samples from MW-1 and MW-4 were analyzed for the following:

- Total Petroleum Hydrocarbons as Gasoline (TPH-G) using EPA Method 8015M
- Volatile Organic Compounds (VOCs) using EPA Method 8260B

The following are the results of the groundwater analysis:

• TPH-G was detected in MW-1 (17,000 μ g/L). TPH-G was not detected at or above the laboratory reporting limit in the MW-4 water sample.

Numerous constituents of gasoline (BTEX, n-butylbenzene, isopropylbenzene, etc.) were detected in the groundwater sample from MW-1. The following constituents had concentrations greater than their San Francisco Bay Area Regional Water Quality Control Board Environmental Screening Level (ESL) for drinking water in a commercial or industrial setting:

- Benzene (MW-1 at 240 ug/l) (ESL of 1 ug/l)
- Toluene (MW-1 at 180 ug/l) (ESL of 40 ug/l)
- Ethylbenzene (MW-1 at 980 ug/l) (ESL of 30 ug/l)
- Total Xylenes (MW-1 at 5,000 ug/l) (ESL of 20 ug/l)
- Naphthalene (MW-1 at 190 ug/l) (ESL of 17 ug/l)

A summary of the laboratory results for the groundwater samples is presented in Table 1. Copies of the laboratory reports and chain of custody records are presented in Appendix B.

3.0 SUMMARY AND CONCLUSIONS

PSI performed groundwater-monitoring activities on December 21, 2006. The results of the monitoring event are summarized below.

- TPH-G was detected only in monitoring well MW-1.
- Several gasoline-related VOCs were detected in MW-1. VOCs were not detected in the water sample from MW-4.
- Due to site conditions and access problems, samples were not collected from MW-2 or MW-3.

4.0 RECOMMENDATIONS

PSI recommends that quarterly groundwater sampling continue until closure is attained. PSI also recommends that after the next quarterly groundwater monitoring event is completed, a meeting be set up with the Alameda County Environmental Health Department to discuss closure criteria. **FIGURES**





TABLES

TABLE 1

GROUNDWATER ANALYTICAL RESULTS PALACE GARAGE 14336 WASHINGTON AVENUE SAN LEANDRO, CALIFORNIA

Sample I.D.	Date	TOC Elevation (feet msl)	Depth To Groundwater (feet)	Groundwater Elevation (feet msl)	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	12/31/2002	37.59	13.62	23.97	48,000 (*4,800)	<0.5	1,030	2,380	1,690	9,220
	9/22/2006	37.59	13.33	24.26	44,000	<1.0	870	720	2,200	9,700
	12/21/2006	37.59	13.94	23.65	17,000	3.9	240	180	980	5,000
MW-2	12/31/2002	37.12	13.38	23.74	1,670	<0.5	1,030	11	23.1	16.4
	9/22/2006	37.12	13.25	23.87	1,800	<1.0	53	1.4	14	7.5
	12/21/2006	37.12	13.89	23.23	NS	NS	NS	NS	NS	NS
MW-3	12/31/2002	37.01	13.29	23.72	<50	<0.5	<0.5	<0.5	<0.5	<1.0
	9/22/2006	37.01	13.14	23.87	<50	<1.0	<0.5	<0.5	<0.5	<1.5
	12/21/2006	37.01			NS	NS	NS	NS	NS	NS
MW-4	12/31/2002	37.09	13.45	23.64	<50	<0.5	<0.5	<0.5	<0.5	<1.0
	9/22/2006	37.09	13.40	23.69	<50	<1.0	<0.5	<0.5	<0.5	<1.5
	12/21/2006	37.09	13.86	23.23	<50	<1.0	<0.5	<0.5	<0.5	<1.5

NOTES:

All concentrations are reported in ug/l (micrograms per liter).

* = Reported laboratory result of 4,800 ug/l appears to have been incorrect, based on BTEX concentrations and subsequent TPH-G result.

"Less than" symbol indicates not detected above laboratory detection limit indicated.

--- = No data available

TPH-G = Total Petroleum Hydrocarbons as Gasoline MTBE = Methyl Tertiary Butyl Ether TOC = Top of casing NS = Well not sampled.

<u>APPENDIX A</u>

GROUNDWATER PURGE LOGS

FLUID MEASUREMENT FIELD DATA

							SHEET:	OF
DATE: /D-2	21-06	PROJECT NAME:	Palace 1.	ISraal		PROJECT NO:	575 - 6GC	8
WATER LEVEL N	ALASUREMENT IN	STRUMENT: 5	slipst	0		SERIAL NO:	J	
PRODUCT DETE	CTION INSTRUME	NT:	SERIAL NO:					
EQUIP. DECON:	ALCONO>		FREE FINAL RINSE	TAP WATER F	NAL RINSE			
🗌 TAP WA	TER WASH	LIQUINOX WASH		ON 2 RINSE	OTHER SOLVENT	DIST/DEION	FINAL RINSE	AIR DRY
WELL	GROUND	TOP OF	DEPTH TO	DEPTH TO	WELL	PRODUCT	WATER	ACTUAL
NUMBER	SURFACE	CASING	PRODUCT	WATER	DEPTH	THICKNESS	TABLE	TIME
/ 	ELEVATION	ELEVATION	BELOW TOC	BELOW TOC	BELOW TOC.		ELEVATION	19:62
MW-				13.74	24.00			12:55
MIN-2				13.89	2400			12:41
MIN-3					24:00			
min1-4				13.86	22,50			12:31
				,				
}								
{								
;								
		•		·				
]								
							MC	
REMEMBER TO C	ORRECT PRODUCT	THICKNESS FOR DEN	SITY BEFORE CALC	ULATING WATER TA	BLE ELEVATION	PREPARED BY:	11 15	

THE FORCE AND DAMPLING DATA

	WELL NO: MW-					
DATE: 2-21-06 PROJECT NAME: Palace	Garage PROJECT NO: CGO18					
WEATHER CONDITIONS: Rains						
WELL DIAMETER (IN.)	4 6 OTHER					
SAMPLE TYPE: GROUNDWATER WAST						
WELL DEPTH (TOC) $\supset 4$ FT.	DEPTH TO WATER BEFORE PURGING (TOC) (394 FT.					
LENGTH OF WATER	CALCULATED ONE WELL VOLUME': (, 7 GAL.					
PURGING DEVICE:	PURGING DEVICE:					
SAMPLING DEVICE:						
EQUIP. DECON.	SOPROPANOL ANALYTE FREE FINAL RINSE					
ALCONOX WASH	OTHER SOLVENT DIST/DEION FINAL RINSE					
WATER ANALYZER MODEL & SERIAL NO:						
ACTUAL CUMUL TEMP SPECIFIC pH TIME VOLUME TF CONDUCT. (MIN) PURGED To C	DISS. TURBIDITY WATER REMARKS OXYGEN (NTUS) APPEAR (EVIDENT ODOR, COLOR, PID) CL=CLEAR					
	, CO=CLOUDY TU=TURBID					
17. [1 INITIAL 158 858 8,8	CL					
14:16 2 10.0 871 8.7						
14:19 4 12.2 883 8.7	.CL					
19:25 6 13.2 8.83 8.8	C(
-						
DEPTH TO WATER AFTER PURGING (TOC)	FT. SAMPLE FILTERED YES NO SIZE					
NOTES:	SAMPLETIME: 14:25 ID# MW-2)					
ŀ	DUPLICATE TIME: ID#:					
	EQUIP. BLANK: TIME: ID#:					
8	PREPARED BY:					

1 A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA, PIPE 0.17 GAL IN 2" DIA PIPE 0.55 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

WELL PURGING AND SAMPLING DATA

	WELL NO: MW-4
DATE: 12-21-06 PROJECT NAME: Palace Ga	PROJECT NO: SG0/8
WEATHER CONDITIONS:	0
WELL DIAMETER (IN.) X 1 2	4 6 OTHER
SAMPLE TYPE: SGROUNDWATER WASTEW	VATER SURFACE WATER OTHER
WELL DEPTH (TOC) 20,5 FT. I	DEPTH TO WATER BEFORE PURGING (TOC) 13,86 FT.
LENGTH OF WATER S. S. Y FT.	CALCULATED ONE WELL VOLUME ¹ : 0.43 GAL.
SAMPLING DEVICE:	DEDICATED TISPOSABLE DECONTAMINATED
EQUIP. DECON. TAP WATER WASH	ISOPROPANOL ANALYTE FREE FINAL RINSE
ALCONOX WASH	OTHER SOLVENT
	FIELD PRESERVED
WATER ANALTZER MODEL & SERIAL NO:	
ACTUAL CUMUL TEMP SPECIFIC PH TIME VOLUME S*F CONDUCT. O (MIN) PURGED S*C (GAL)	DISS. TURBIDITY WATER REMARKS DXYGEN (NTUS) APPEAR (EVIDENT ODOR, COLOR, PID) CL=CLEAR CO=CLOUDY TU=TURBID
13:00 INITIAL 806 686 9.21	TU
1333 0.5 17. 830 8.96	Tu
DEPTH TO WATER AFTER PURGING (TOC)	FT. SAMPLE FILTERED YES NO SIZE
NOTES:	AMPLETIME: 13:46 ID# M/1/-4
E	QUIP. BLANK: TIME: ID#:
P	REPARED BY:

A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.55 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIPE

<u>APPENDIX B</u>

LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS

28 December 2006

Frank Poss PSI -- Oakland 4703 Tidewater Ave Ste B Oakland, CA 94601 RE: Palace Garage

Enclosed are the results of analyses for samples received by the laboratory on 12/22/06 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John J. life

PSI Oakland	Project: Palace Garage	
4703 Tidewater Ave Ste B	Project Number: 575-6G018	Reported:
Oakland CA, 94601	Project Manager: Frank Poss	12/28/06 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T601759-01	Water	12/21/06 14:25	12/22/06 08:30
MW-4	T601759-02	Water	12/21/06 13:46	12/22/06 08:30

SunStar Laboratories, Inc.

John J. Life

PSI Oakland 4703 Tidewater Ave Ste B		Project Numb	ct: Palac	ce Garage				Demented	
Oakland CA, 94601		Project Numb	er: 575-0 er: Franl	k Poss				Reported 12/28/06-15	: :-50
		N T60175	MW-1 9-01 (N	/ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 8015	m							
C6-C12 (GRO)	17000	1200	ug/l	25	6122210	12/22/06	12/26/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		97.0 %	65	-135	"	"	"	11	-
Volatile Organic Compounds by E	EPA Method 826	60B							
Bromobenzene	ND	10		1	6122209	12/22/06	12/26/06	EPA 8260P	
Bromochloromethane	ND	1.0	ug/1	1 11	"	"	12/20/00	EFA 0200D	
Bromodichloromethane	ND	1.0	п	ti		ų	н		
Bromoform	ND	1.0		11	17	"	u	14	
Bromomethane	ND	1.0	IF		n	u	u	ч	
n-Butylbenzene	31	1.0	0	υ	u	u,	17	D	
sec-Butylbenzene	ND	1.0	n	м			и		
tert-Butylbenzene	ND	1.0		"	"	11	u	n	
Carbon tetrachloride	ND	0.50	н	п	н	U	п	н	
Chlorobenzene	ND	1.0	11	17	"	D	"		
Chloroethane	ND	1.0	u	"	U	*1	a	a	
Chloroform	ND	· 10	u.	п	n	u –	0	п	
Chloromethane	ND	1.0		Ð	u	н	и	n	
2-Chlorotoluene	ND	1.0		ч	п	11	u	u	
4-Chlorotoluene	ND	1.0		и	11	u.	n	н	
Dibromochloromethane	ND	1.0	н	н	n	н	D	n	
1,2-Dibromo-3-chloropropane	ND	1.0	11	н	9	11	н	"	
1,2-Dibromoethane (EDB)	ND	1.0			U		u	**	
Dibromomethane	ND	1.0	r#	Ħ	U D	п	u	u	
1,2-Dichlorobenzene	ND	1.0		ч	R	u	ш	u	
1,3-Dichlorobenzene	ND	1.0	IT	н		n	14		
1,4-Dichlorobenzene	ND	1.0	0	U		n	n	18	
Dichlorodifluoromethane	ND	0.50	71	и	п	14		u	
1,1-Dichloroethane	ND	1.0	T 9	*1		u		н .	
1,2-Dichloroethane	ND	0.50	u			u		n	
1,1-Dichloroethene	ND	1.0	IF		11	н	17	U.	
cis-1,2-Dichloroethene	ND	1.0	IF	U	"	D	п	*	
trans-1,2-Dichloroethene	ND	1.0	н		u	ч	u	**	
1,2-Dichloropropane	ND	1.0	IF.	n	и	*1	u	н	
1,3-Dichloropropane	2.0	1.0	•1	"	п	0	U	п	
2,2-Dichloropropane	ND	1.0		н	"	0	D	ш	
1,1-Dichloropropene	ND	1.0	14	u	н	D	н	11	
cis-1,3-Dichloropropene	ND	0.50	W.	п	71	и	я	19	
trans-1,3-Dichloropropene	ND	0.50	II.	и	ч	п	11		
Hexachlorobutadiene	ND	1.0	н		U	ч	ч		
Isopropylbenzene	33	1.0	"	n	U	17	n	u	
p-Isopropyitoluene	2.0	1.0	0	u	U	"	U.		

July fly

PSI' Oakland 4703 Tidewater Ave Ste B		Project: Palace Garage Project Number: 575-6G018 Project Manager: Frank Poss						Reported:	
Oakland CA, 94601								12/28/06 15	:50
		ן T60175	MW-1 9-01 (W	ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries, Inc.					
Volatile Organic Compounds by H	EPA Method 826	0B							
Methylene chloride	ND	1.0	ug/l	1	6122209	12/22/06	12/26/06	EPA 8260B	
Naphthalene	190	1.0	11	U.	u	ч	11	ч	
n-Propylbenzene	65	1.0	**	17		u	н	ч	
Styrene	2.6	1.0	ы	н	ia.	н	*	U	
1,1,2,2-Tetrachloroethane	ND	1.0		a	n	U	u	11	
1,1,1,2-Tetrachloroethane	ND	1.0	11	U.	н	*	"	"	
Tetrachloroethene	ND	1.0	11	и		"	*		
1,2,3-Trichlorobenzene	ND	1.0	14	11	н	U	u	P	
1,2,4-Trichlorobenzene	ND	1.0	D	u	ч	IT	u	**	
1,1,2-Trichloroethane	ND	1.0	17	"	н		U U	u	
1,1,1-Trichloroethane	ND	1.0	97	11	U U	н	11	u	
Trichloroethene	ND	1.0	н	11	n	н	a	17	
Trichlorofluoromethane	ND	1.0	14		n		ч	н	
1,2,3-Trichloropropane	ND	1.0	11		u –	0	n		
1,3,5-Trimethylbenzene	120	1.0	0	н	'n	н	u	17	
1,2,4-Trimethylbenzene	720	5.0		5	ч	u.	12/27/06	u	
Vinyl chloride	ND	0.50		1	ч	a	12/26/06	н	
Benzene	240	0.50			0	n	51	n	
Toluene	180	0.50	н	t#	17	tr	п	58	
Ethylbenzene	980	2.5	н	5	u	u	12/27/06	п	
m,p-Xylene	3400	5.0		u	"	н	IJ	п	
0-Xylene	1600	2.5		н	u	U	Ħ	п	
Tert-amyl methyl ether	ND	2.0	11	1		n	12/26/06	н	
Tert-butyl alcohol	ND	10	71	17		н	н	"	
Di-isopropyl ether	ND	2.0	IJ	11	*	14	н	n	
Ethyl tert-butyl ether	ND	2.0		н	u	ч		п	
Methyl tert-butyl ether	3.9	1.0	u.	v		.,	u		
Surrogate: Toluene-d8		98.5 %	88.8	117	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114%	83.5	119	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	78.6	135	"	"	"	"	

John of life

PSI Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601		Proje Project Numb Project Manag	ect: Palac ber: 575- ger: Fran	ce Garage 5G018 & Poss				Reported 12/28/06 15	:
· · · · · · · · · · · · · · · · · · ·			MW-4						
		T60175	9-02 (W	'ater)					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		SunStar La	aborato	ries. Inc.					
Purgeable Petroleum Hydrocarbo	ns by EPA 8015	m							
C6-C12 (GRO)	ND	50	ug/l	1	6122210	12/22/06	12/26/06	EPA 8015m	
Surrogate: 4-Bromofluorobenzene		104 %	65	./35	"	"	"	"	
Volatile Organic Compounds by F	'PA Mathad 876	00							
Bromobenzene	MD	1.0			(122200	10 100 10 1			
Bromochloromethane		1.0	ug/I	ł	6122209	12/22/06	12/26/06	EPA 8260B	
Bromodichloromethane		1.0	11						
Bromoform		1.0						,,	
Bromomethane	ND	1.0				**			
n-Butylbenzene	NĐ	1.0	11		*1	U			
sec-Butylbenzene	ND	1.0		п			a		
tert-Butylbenzene	ND	1.0	u	77	п	"			
Carbon tetrachloride	ND	0.50		ч	11	н			
Chlorobenzene	ND	0.50	+1	п	п	п	u		
Chloroethane	ND	1.0		**	"	"	n		
Chloroform	ND	1.0	10	н	17	и	*		
Chloromethane	ND	1.0	и	ц	н	п	ч		
2-Chlorotoluene	ND	1.0	n	11	n	10	н	"	
4-Chlorotoluene	ND	1.0			"	rt	н	a.	
Dibromochloromethane	ND	1.0	11	н	u	н	18	ч	
1,2-Dibromo-3-chloropropane	ND	1.0	н	н	n	n	n	н	
1,2-Dibromoethane (EDB)	ND	1.0	"	te	n	19		"	
Dibromomethane	ND	1.0	14	u	*	n			
1,2-Dichlorobenzene	ND	1.0	11	u	u	n ·	u	u	
1,3-Dichlorobenzene	ND	1.0	п	'n	u	п	u		
1,4-Dichlorobenzene	ND	1.0	11	**	U	"		υ	
Dichlorodifluoromethane	ND	0.50			19	u		17	
1,1-Dichloroethane	ND	1.0	U	u	11	п	*	11	
1,2-Dichloroethane	ND	0.50	17	0	u		a	u	
1,1-Dichloroethene	ND	1.0		п	u	n	и	н	
cis-1,2-Dichloroethene	ND	1.0	11	n	u	н	н	н	
trans-1,2-Dichloroethene	ND	1.0	н	u	н	17	"	'n	
1,2-Dichloropropane	ND	1.0	11	11	17	"	н	63	
1,3-Dichloropropane	ND	1.0	n	u	11	u	77	IL	
2,2-Dichloropropane	ND	1.0	u.	U.	и		"		
1,1-Dichloropropene	ND	1.0	11		n	"			
cis-1,3-Dichloropropene	ND	0.50	"	17	D	п	ų	11	
trans-1,3-Dichloropropene	ND	0.50	11	n	H	q	R	12	
Hexachlorobutadiene	ND	1.0	11	"	11	u	ก	"	
Isopropylbenzene	ND	1.0	(*		u	"	u	11	
p-isopropyltoluene	ND	1.0		ч	ii ii	U U	a	п	

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PSI Oakland 4703 Tidewater Ave Ste B		Proje Project Numb	ect: Palac	e Garage	-			Reported		
Oakland CA, 94601	I	Project Manag	er: Frank	< Poss				12/28/06 15	:50	
MW-4 T601759-02 (Water)										
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
		SunStar La	aborato	ries, Inc.						
Volatile Organic Compounds by B	EPA Method 826)B								
Methylene chloride	ND	1.0	ug/l	1	6122209	12/22/06	12/26/06	EPA 8260B		
Naphthalene	ND	1.0	*1	U	н	U	н	79		
n-Propylbenzene	ND	1.0	н		п	19	н			
Styrene	ND	1.0	10	u	4	u	**	н		
1,1,2,2-Tetrachloroethane	ND	1.0	0	н	ч	n	u	12		
1,1,1,2-Tetrachloroethane	ND	1.0	+1		U			**		
Tetrachloroethene	ND	1.0	n	n		"	"	н		
1,2,3-Trichlorobenzene	ND	1.0	0	4	97	u	71	н		
1,2,4-Trichlorobenzene	ND	1.0	п	н		н	u			
1,1,2-Trichloroethane	ND	1.0	e	U II	U	н		**		
1,1,1-Trichloroethane	ND	1.0			*	11	**	н		
Trichloroethene	ND	1.0	11	п	п	п	п			
Trichlorofluoromethane	ND	1.0	н	11	n	14	U.	11		
1,2,3-Trichloropropane	ND	1.0			11	н	4	u		
1,3,5-Trimethylbenzene	ND	1.0	R		н	н	н	n		
1,2,4-Trimethylbenzene	ND	1.0	a.	и	ų	n	n	77		
Vinyl chloride	ND	0.50	н			u	**	u		
Benzene	ND	0.50	U		11	н	u	n		
Toluene	ND	0.50	n	п	U	н	n	11		
Ethylbenzene	ND	0.50	а	11	n	*	17	**		
m,p-Xylene	ND	1.0	14	a,		u		н		
o-Xylene	ND	0.50	14	н	a	н	п	n		
Fert-amyl methyl ether	ND	2.0	11		u		п			
Fert-butyl alcohol	ND	10	н	"		74		11		
Di-isopropyl ether	ND	2.0		u	к	п	п	н		
Ethyl tert-butyl ether	ND	2.0	U.	n	a	U	U	n		
Methyl tert-butyl ether	ND	1.0		н	0	11	D	u		
Surrogate: Toluene-d8		101 %	88.8	.117	"	н	"	"		
Surrogate: 4-Bromofluorobenzene		104 %	83 5	.119	"	н	"	"		
Surrogate: Dibromofluoromethane		106 %	78 6-	135	п			"		

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PSI Oakland	kland Project: Palace Garage													
4703 Tidewater Ave Ste B		Project Nur	nber: 57	75-6G018					Report	ed:				
Oakland CA, 94601		Project Man	ager: Fr	ank Poss					12/28/06	15:50				
Purge	able Petroleun	n Hydroca	rbons	by EPA 8	8015m -	Quality	Control							
		SunStar l	Labor	atories, l	lne.									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes				
Batch 6122210 - EPA 5030 GC														
Blank (6122210-BLK1)				Prepared:	12/22/06	Analyzed:	12/26/06							
Surrogate: 4-Bromofluorobenzene	49.1		ug/l	50.0		98.2	65-135		<u> </u>					
C6-C12 (GRO)	ND	50	"											
LCS (6122210-BS1)				Prepared:	12/22/06	Analyzed:	12/26/06							
Surrogate: 4-Bromofluorobenzene	50.9		ug/l	50.0		102	65-135							
C6-C12 (GRO)	5740	50	19	5500		104	75-125							
Matrix Spike (6122210-MS1)	Sou	rce: T60175	9-02	Prepared:	12/22/06	Analyzed:	12/26/06							
Surrogate: 4-Bromofluorobenzene	54.8		ug/l	50.0			65-135							
C6-C12 (GRO)	5630	50		5500	ND	102	65-135							
Matrix Spike Dup (6122210-MSD1)	Sou													
Surrogate: 4-Bromofluorobenzene	55.0		ug/l	50.0		110	65-135							
C6-C12 (GRO)	5810	50		5500	ND	106	65-135	3 1 5	20					

5500

ND

106

65-135

3.15

20

50

5810

SunStar Laboratories, Inc.

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PSI Oakland	Project: Palace Garage	
4703 Tidewater Ave Ste B	Project Number: 575-6G018	Reported:
Oakland CA, 94601	Project Manager: Frank Poss	12/28/06 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

		•• •••								
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6122209 - EPA 5030 GCMS

Blank (6122209-BLK1)				Prepared: 12/2	22/06 Analyzed	1: 12/26/06
Surrogate: Toluene-d8	41.6	·····	ug/l	40.0	104	88.8-117
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0	106	83.5-119
Surrogate: Dibromofluoromethane	43.0		"	40.0	108	78.6-135
Bromobenzene	ND	1.0				
Bromochloromethane	ND	1.0	u			
Bromodichloromethane	ND	1.0	U			
Bromoform	ND	1.0	н			
Bromomethane	ND	1.0	4			
n-Butylbenzene	ND	1.0				
sec-Butylbenzene	ND	1.0	n			
tert-Butylbenzene	ND	1.0	и			
Carbon tetrachloride	ND	0.50				
Chlorobenzene	ND	1.0	D			
Chloroethane	ND	1.0	H			
Chloroform	ND	1.0	н			
Chloromethane	ND	1.0				
2-Chlorotoluene	ND	1.0				
4-Chlorotoluene	ND	1.0	*1			
Dibromochloromethane	ND	1.0	u			
1,2-Dibromo-3-chloropropane	ND	1.0	14			
1,2-Dibromoethane (EDB)	ND	1.0				
Dibromomethane	ND	1.0	u			
1,2-Dichlorobenzene	ND	1.0	н			
1,3-Dichlorobenzene	ND	1.0	и			
1,4-Dichlorobenzene	ND	1.0	11			
Dichlorodifluoromethane	ND	0.50	u			
1,1-Dichloroethane	ND	1.0				
1,2-Dichloroethane	ND	0.50	п			
1,1-Dichloroethene	ND	1.0	17			
cis-1,2-Dichloroethene	ND	1.0	*1			
trans-1,2-Dichloroethene	ND	1.0				
1,2-Dichloropropane	ND	1.0	н			
1,3-Dichloropropane	ND	1.0	n			
2,2-Dichloropropane	ND	1.0	19			
1,1-Dichloropropene	ND	1.0	"			
cis-1,3-Dichloropropene	ND	0.50				
trans-1,3-Dichloropropene	ND	0.50				
Hexachlorobutadiene	ND	1.0				
lsopropylbenzene	ND	1.0	"			
p-lsopropyltoluene	ND	1.0	u			
Methylene chloride	ND	1.0	17			

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PSI Oakland	Project: Palace Garage	
4703 Tidewater Ave Ste B	Project Number: 575-6G018	Reported:
Oakland CA, 94601	Project Manager: Frank Poss	12/28/06 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

									<u> </u>	
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6122209 - EPA 5030 GCMS

Blank (6122209-BLK1)				Prepared: 12/22/06 Analyzed: 12/26/06
Naphthalene	ND	1.0	ug/l	
n-Propylbenzene	ND	1.0	a	
Styrene	ND	1.0		
I, 1, 2, 2-Tetrachloroethane	ND	1.0	п	
1,1,1,2-Tetrachloroethane	ND	1.0	71	
Tetrachloroethene	ND	1.0	u	
1,2,3-Trichlorobenzene	ND	1.0	U	
1,2,4-Trichlorobenzene	ND	1.0	17	
1,1,2-Trichloroethane	ND	1.0		
1,1,1-Trichloroethane	ND	1.0	н	
Trichloroethene	ND	1.0	11	
Trichlorofluoromethane	ND	1.0	u	
1,2,3-Trichloropropane	ND	1.0	ņ	
1,3,5-Trimethylbenzene	ND	1.0	u	
1,2,4-Trimethylbenzene	ND	1.0		
Vinyl chloride	ND	0.50	v	
Benzene	ND	0.50	a	
Toluene	ND	0.50	n	
Ethylbenzene	ND	0.50	14	
m,p-Xylene	ND	1.0	**	
o-Xylene	ND	0.50		
Tert-amyl methyl ether	ND	2.0	U	
Tert-butyl alcohol	ND	10	**	
Di-isopropyl ether	ND	2.0		
Ethyl tert-butyl ether	ND	2.0		
Methyl tert-butyl ether	ND	1.0	"	
LCS (6122209-BS1)				Prepared: 12/22/06 Analyzed: 12/27/06
Surrogate: Toluene-d8	39.3		ug/l	40.0 98.2 88.8-117
Surrogate: 4-Bromofluorobenzene	41.6		"	40.0 104 83.5-119
Surrogate: Dibromofluoromethane	44.3		"	40.0 111 78.6-135
Chlorobenzene	95.2	1.0	п	100 95.2 75-125
1,1-Dichloroethene	100	1.0	0	100 100 75-125
Trichloroethene	82.6	1.0	U.	100 82.6 75-125
Benzene	87.5	0.50		100 87.5 75-125
Toluene	91.3	0.50	11	100 91.3 75-125

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PSI Oakland	Project: Palace Garage	
4703 Tidewater Ave Ste B	Project Number: 575-6G018	Reported:
Oakland CA, 94601	Project Manager: Frank Poss	12/28/06 15:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

		Reporting Result Limit		Spike	Spike Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6122209 - EPA 5030 GCMS

Matrix Spike (6122209-MS1)	Source: T601759-02 P			Prepared	: 12/22/06	Analyzed	: 12/27/06			
Surrogate: Toluene-d8	40.6		ug/l	40.0		102	88.8-117			
Surrogate: 4-Bromofluorobenzene	42.9		"	40.0		107	83.5-119			
Surrogate: Dibromofluoromethane	44.2		"	40.0		110	78.6-135			
Chlorobenzene	116	1.0	17	100	ND	116	75-125			
1,1-Dichloroethene	115	1.0	1+	100	ND	115	75-125			
Trichloroethene	97.9	1.0	**	100	ND	97.9	75-125			
Benzene	105	0.50	a	100	ND	105	75-125			
Toluene	106	0.50	н	100	ND	106	75-125			
Matrix Spike Dup (6122209-MSD1)	Sour	ce: T60175	9-02	Prepared:	12/22/06	Analyzed	12/27/06			
Surrogate: Toluene-d8	40.6		ug/l	40.0		102	88 8-117			
Surrogate: 4-Bromofluorobenzene	44.2		"	40.0		110	83 5-119			
Surrogate: Dibromofluoromethane	40.6		"	40.0		102	78 6-135			
Chlorobenzene	83.2	1.0	u	100	ND	83.2	75-125	37.9	20	OR-02
1,1-Dichloroethene	75.0	1.0	a	100	ND	75.0	75-125	42 1	20	OR-02
Trichloroethene	70.4	1.0	н	100	ND	70.4	75-125	32.7	20	QM-07,
Benzene	77.3	0.50	н	100	ND	77.3	75-125	30.4	2.0	OR-02
Toluene	77.8	0.50	57	100	ND	77.8	75-125	30.7	20	QR-02

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PSI Oakland	Project: Palace Garage	
4703 Tidewater Ave Ste B	Project Number: 575-6G018	Reported:
Oakland CA, 94601	Project Manager: Frank Poss	12/28/06 15:50

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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.

Job J. She

Chain of Custody Record

7601758

SunStar Laboratories, Inc. 3002 Dow Ave., Ste. 212 Tustin, CA 92780 714-505-4010

Client: PST Address: 4703 Tric Phone: SID-434-95 Project Manager: Fro	dewater 200 2nk Pos	AJ <u>e S</u> Fax: <u>Sič</u> S	te B Q >- 434-	<u>ak land, C</u> 7676	Ą		1	Date Proj Coll Bate	e: ecto ch #	 Nam or:	ລ∕ ne:	12 M,	/0 [- 	6	-2	<u>G</u>	<u>(a</u> g (Page Client EDF #	e: t Project #:	Of	 Astronom (18		
Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	Х8260 + ОХҮ	8260 BTEX, OXY only	8270	8021 BTEX	χ 8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comm Lir	ients/Pre	eservative		는 Total # of containers
MW-4	12/21/00	13:46	Water	VAAS		X				Ŷ													4
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