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June 10, 2016

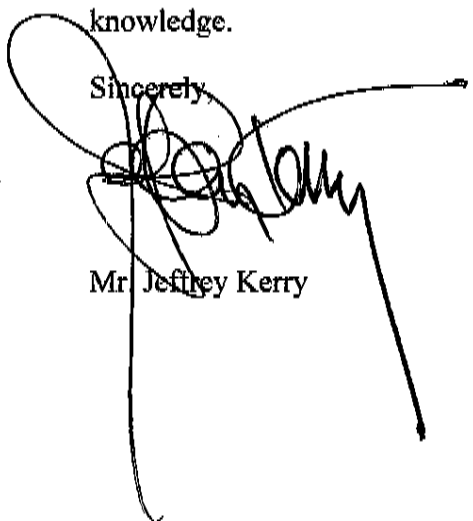
Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

**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 **Semi Annual 2016 Groundwater Monitoring Report** are true and correct to the best of my knowledge.

Sincerely,



Mr Jeffrey Kerry



June 10, 2016

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

**RE: SEMI-ANNUAL 2016 GROUNDWATER
MONITORING REPORT – PALACE GARAGE
14336 Washington Boulevard
San Leandro, California
ACEH Case # RO0000208, SFRWQCB Case # 01-1133**

Dear Mr. Detterman:

On behalf of Kerry & Associates, INNOVEX Environmental Management Inc. (INNOVEX) has prepared this Semi-Annual 2016 Groundwater Monitoring Report (Report) for the Palace Garage facility (the Site) located at 14336 Washington Avenue in San Leandro, California (Figure 1).

1.0 SITE BACKGROUND SUMMARY

A 550-gallon gasoline underground storage tank (UST) was removed from the Site in 1991. Subsequent investigations included the installation of three monitoring wells (MW-1 through MW-3) and the drilling of 15 borings (B-1 through B-15). 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 primary groundwater flow direction is toward the southwest.

In December 2002, Professional Service Industries, Inc. (PSI) conducted a soil and groundwater investigation to evaluate 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 (bgs). Boring B-16 was converted into monitoring well MW-4. Concentrations of total petroleum hydrocarbons as gasoline (TPHg) 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 and soil borings are shown on Figure 2.

Closure Solutions, Inc. (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 survey were presented in the *Sensitive Receptor Survey* report dated August 27, 2008.

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

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

On October 15, 2009, Closure Solutions discussed the Site status with ACEH. Data gaps discussed in the SCM and other information that ACEH would require for Site closure were identified. Closure Solutions submitted a *Soil Vapor Probe and Additional Assessment Work Plan* on November 13, 2009 to address the work necessary to move the Site toward closure.

On May 14, 2010, Closure Solutions submitted a letter to the ACEH stating that Closure Solutions intended to proceed with the proposed scope of work pursuant to CCR Title 23, Division 3, Chapter 16, Section 2722 (e) which states, "Implementation of the proposed work plan may begin sixty (60) calendar days after submittal, unless the responsible party is otherwise directed in writing by the regulatory agency". On May 21, 2010, the ACEH responded to Closure Solutions' letter of intent via email explaining that the ACEH had been largely precluded from generating letters on cases due to the work load imposed by SWRCB Resolution 2009-0042, and they would attempt to shorten the review interval for the Site.

On July 26, 2010, a representative from Closure Solutions was on Site to oversee the installation and sampling of three temporary soil vapor probes (SV-1 through SV-3) and advancement of one down-gradient soil boring (SB-18). A *Soil Vapor Testing and Additional Assessment Report* describing field activities and discussing soil and soil vapor analytical results was submitted to the ACEH on August 30, 2010.

On January 24, 2012, Closure Solutions supervised the advancement of two soil borings, collection of additional soil and groundwater data, and installation of wells MW-5 and MW-6. The work was completed in order undertake further corrective actions at the Site. Collected soil and groundwater samples were analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Additionally, bio-attenuation parameters were analyzed for groundwater collected from well MW-5. A discussion of analytical results is presented in the *Groundwater Monitoring Well Installation Report* submitted on March 30, 2012.

After completing the monitoring well installation, a dual-phase extraction (DPE) pilot test was performed between February 21 and 25, 2012. The pilot test was conducted to evaluate whether DPE would be a viable technology to remediate soil and groundwater beneath the Site. High groundwater extraction rates were encountered during pilot testing conducted from MW-1. As a result, subsurface soils could not be effectively dewatered to allow remediation via vapor extraction. Pilot testing from well MW-6 produced average groundwater extraction rates that were roughly two-thirds less than those observed during testing from MW-1. Subsequently, the

technology was successful in lowering the groundwater table in the vicinity of well MW-6 and exposing the capillary fringe or “smear” zone. Based on the results of testing performed from MW-6, DPE appears to be a viable option for Site remediation. Results of the DPE test were presented in Closure Solutions’ April 13, 2012 *Dual-Phase Extraction Pilot Test Report*.

On October 9, 2012, the well boxes for monitoring wells MW-1, MW-2, MW-5 and MW-6 were re-set as part of repaving activities conducted in the alley between the Site building and adjacent building. Boxes for MW-1, MW-2, and MW-6 were elevated an average of 1.5 inches to assure the boxes were above the new grade elevations. Well box MW-5 had to be lowered approximately 3 inches. Because of the elevation drop, the well casing had to be cut down 3 inches for it to fit inside the repositioned well box. The well top-of-casing elevation was re-surveyed on October 11, 2012 to assure future measured groundwater elevations are consistent with historical data.

On April 10, 2013, Closure Solutions submitted a *Revised Draft Corrective Action Plan Addendum* (Draft CAP Addendum) to the ACEH that presented an evaluation of hydrocarbon impacts to soil and groundwater beneath the Site, and evaluated and compared remedial alternatives to address cleanup of the impacts. DPE was selected as the most effective remedial alternative. Details and procedures for the installation, operation, and evaluation of a temporary DPE system were included in the Draft CAP Addendum.

On May 29, 2013, the ACEH issued a letter requesting a *Data Gap Investigation Work Plan and Focused Site Conceptual Model* (Work Plan) to be prepared. The Work Plan was requested to address data gaps identified during an ACEH review of the environmental case under the State Water Resource Control Board’s Low Threat Underground Storage Tank Case Closure Policy (LTCP). On June 28, 2013, Closure Solutions submitted the Work Plan as directed. Closure Solutions proposed advancing four soil borings within the source area to collect shallow soil and soil vapor samples. Field work for the proposed investigation was completed in early October 2013.

On November 22, 2013, INNOVEX submitted a *Data Gap Investigation Report* that described investigation activities, evaluated data, and provided conclusions and recommendations. Based on soil data collected from zero to 10 feet bgs, concentrations of TPHg/GRO and naphthalene near the former dispenser island appear to increase with depth; however, BTEX concentrations are consistently low. A review of benzene, ethylbenzene, and naphthalene concentrations against LTCP criteria for vapor intrusion to indoor air indicated the constituents exceed their associated screening criteria for a commercial land use scenario with no bioattenuation zone. Additionally, soil data from zero to 10 feet bgs indicated benzene, ethylbenzene, and naphthalene are below the LTCP established criteria for direct contact and volatilization to outdoor air in commercial/industrial land use and utility worker scenarios.

On January 21, 2014, the ACEH issued a letter directing preparation of a revised Draft Corrective Action Plan (CAP) and Fact Sheet for public notification of the Draft CAP based on results of the November 2013 investigation. A completion date of March 28, 2014 for submittal of the Draft CAP was established by ACEH. However, due to budget constraints and the denial of a budget increase change order request for fiscal year 2013/2014 by the State Underground Storage Tank

Cleanup Fund, the ACEH approved an extension on the Draft CAP submittal date with a new submittal date of September 2, 2014.

After approval of a budget change order in May 2014, Closure Solutions prepared and submitted an *Interim Remedial Action Plan* (IRAP) on June 30, 2014. The IRAP detailed a scope of work to perform secondary source area removal via excavation. ACEH staff indicated, as part of their June 11, 2014 directive letter, that Interim Remedial Actions appear appropriate in order to mitigate the risk of vapor intrusion and expeditiously move the Site towards closure. The IRAP was approved by ACEH staff with some modifications on August 14, 2014.

Between May 15 and 29, 2015, interim remedial field activities were conducted at the Site to remove a secondary source of hydrocarbon impacted soil remaining in the vicinity of the former UST location and close data gaps in the LTCP closure review identified by ACEH staff. Field activities consisted of excavating hydrocarbon-impacted soil to the extent practicable within pre-defined limits. The total depth of the excavation was approximately 16 feet below ground surface (bgs). The open excavation was then backfilled with pre-approved aggregate base rock, and resurfaced to match existing Site conditions.

Analytical results from sidewall and floor confirmation soil samples collected post-excavation indicated that the bulk of the secondary source was removed, with minimal concentrations of petroleum hydrocarbons remaining at a depth of approximately 16 feet bgs. INNOVEX expects that residual hydrocarbon concentrations remaining in soil will attenuate within a reasonable period. Based on the results of the confirmation soil samples, the secondary source and risk of vapor intrusion to adjacent buildings has been mitigated. ACEH has indicated that upon completion of excavation activities and submittal of the IRAR, the environmental case associated with the Site would be evaluated for closure.

On September 24, 2015 and October 23, 2015 the ACEH issued letters directing semi-annual post-interim remedial action groundwater monitoring for one year to verify effective removal of the majority of contaminated soil. The letters also described concerns that a potential for vapor intrusion to the building at the subject Site may still exist. As such, the ACEH directed resampling of soil vapor probe SV-4 to verify recent interim remedial actions were successful. Since all Site soil vapor probes were destroyed during excavation field activities performed in May 2015, installation and sampling of two new sub-slab soil vapor probes within the building was completed in March 2016 to directly measure vapor intrusion to the building. Soil vapor concentrations reported from the sampling event were below the associated LTCP screening criteria for vapor intrusion to indoor air in a commercial/industrial land use scenario. Based on the available data, the excavation of the hydrocarbon-impacted soil was successful in reducing threats to human health and the environment.

2.0 WORK PERFORMED AND WORK PROPOSED

Following is a summary of work performed this semi-annual period and work proposed for the next semi-annual period:

WORK PERFORMED/PROPOSED THIS SEMI-ANNUAL PERIOD:	
1	Conducted a sub-slab soil vapor investigation in March 2016.

2	Prepared and submitted the April 22, 2016 <i>Sub-Slab Soil Vapor Investigation Report</i> .
3	Performed a semi-annual groundwater monitoring event on May 5, 2016.
4	Prepared and submitted this Semi-Annual 2016 Groundwater Monitoring Report.
WORK PROPOSED FOR NEXT SEMI-ANNUAL PERIOD:	
1	Prepare and submit a case closure request to ACEH.

3.0 DISCUSSION OF RECENT ACTIVITIES

INNOVEX performed the second of two post-remediation semi-annual groundwater monitoring and sampling events at the Site on May 5, 2016. Gauging, purging, and sampling were conducted in accordance with INNOVEX's Standard Operating Procedures (included in Attachment A). The collected groundwater samples were submitted to SunStar Laboratories of Lake Forest, California (SunStar) for laboratory analysis under Chain-of-Custody protocols. The samples were analyzed for gasoline range organics (GRO), benzene, toluene, ethylbenzene and xylenes (BTEX), and naphthalene by EPA Method 8260B.

Following is a summary of the current status of the environmental program at the Site:

Current Phase Of Project:	Monitoring
Groundwater Monitoring & Sampling:	Semi-Annual: MW-1 through MW-5, (MW-6 destroyed on May 15, 2015)
Is Free Product (FP) Present On-Site:	No
Current Remediation Techniques:	Excavation performed in May 2015

Following is a summary of this period's field and analytical data:

Average Depth to GW (in feet below top of casing):	13.33
Groundwater Elevation (in feet above mean sea level [msl]):	23.62 (MW-5) to 24.19 (MW-1)
Groundwater Gradient (direction):	Southwest
Groundwater Gradient (magnitude):	0.003 feet per foot
Reported GRO concentration range:	460 µg/L (MW-3) to 24,000 µg/L (MW-1)
Reported benzene concentration range:	0.59 µg/L (MW-4) to 100 µg/L (MW-1)
Reported toluene concentration range:	1.0 µg/L (MW-2, MW-4) to 23 µg/L (MW-1)
Reported ethylbenzene concentration range:	1.8 µg/L (MW-4) to 1,800 µg/L (MW-1)
Reported xylene concentration range:	4.1 µg/L (MW-4) to 3,850 µg/L (MW-1)
Reported Naphthalene concentration range:	2.2 µg/L (MW-3) to 580 µg/L (MW-1)

Laboratory procedures, chain of custody records, and the certified analytical reports are included as Attachment B. Groundwater elevation and analytical data are summarized on Figure 2 and Table 1.

Purge water generated during the monitoring and sampling event was stored onsite in a 55-gallon drum pending characterization and disposal. Water will be removed by a licensed waste transporter and disposed of at an appropriate treatment facility.

4.0 CONCLUSIONS AND RECOMMENDATIONS

INNOVEX notes that groundwater levels measured in Site wells during the May 2016 monitoring event increased between approximately 3.5 and 4.5 feet above the levels measured during the November 2015 monitoring event. It is possible that the increase in water levels beneath the Site has contributed to the elevated hydrocarbon concentrations reported during the May 2016 event. Analytical results from confirmation soil samples collected after the completion of over-excavation activities in May 2015 indicate that the bulk of the secondary source has been effectively removed. INNOVEX anticipates that residual hydrocarbon concentrations remaining in soil within the capillary fringe zone of the groundwater table will attenuate within a reasonable period. Based on available post-interim remedial action data, excavation of the secondary hydrocarbon source remaining near the former UST location appears to have been successful.

INNOVEX requests that the ACWD evaluate the environmental case associated with the Site for no further action status, and grant permission to discontinue groundwater monitoring and sampling at the Site.

5.0 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 have been furnished to INNOVEX by Kerry & Associates and as available on the GeoTracker database. INNOVEX has relied on this information as furnished, and is neither responsible for nor has confirmed the accuracy of this information.

If you have any questions regarding this submission, please feel free to contact the undersigned at (925) 566-8567 or email Tom.Sparrowe@innovex.net.

Sincerely,

INNOVEX Environmental Management, Inc.



Brian Busch
Supervising Scientist



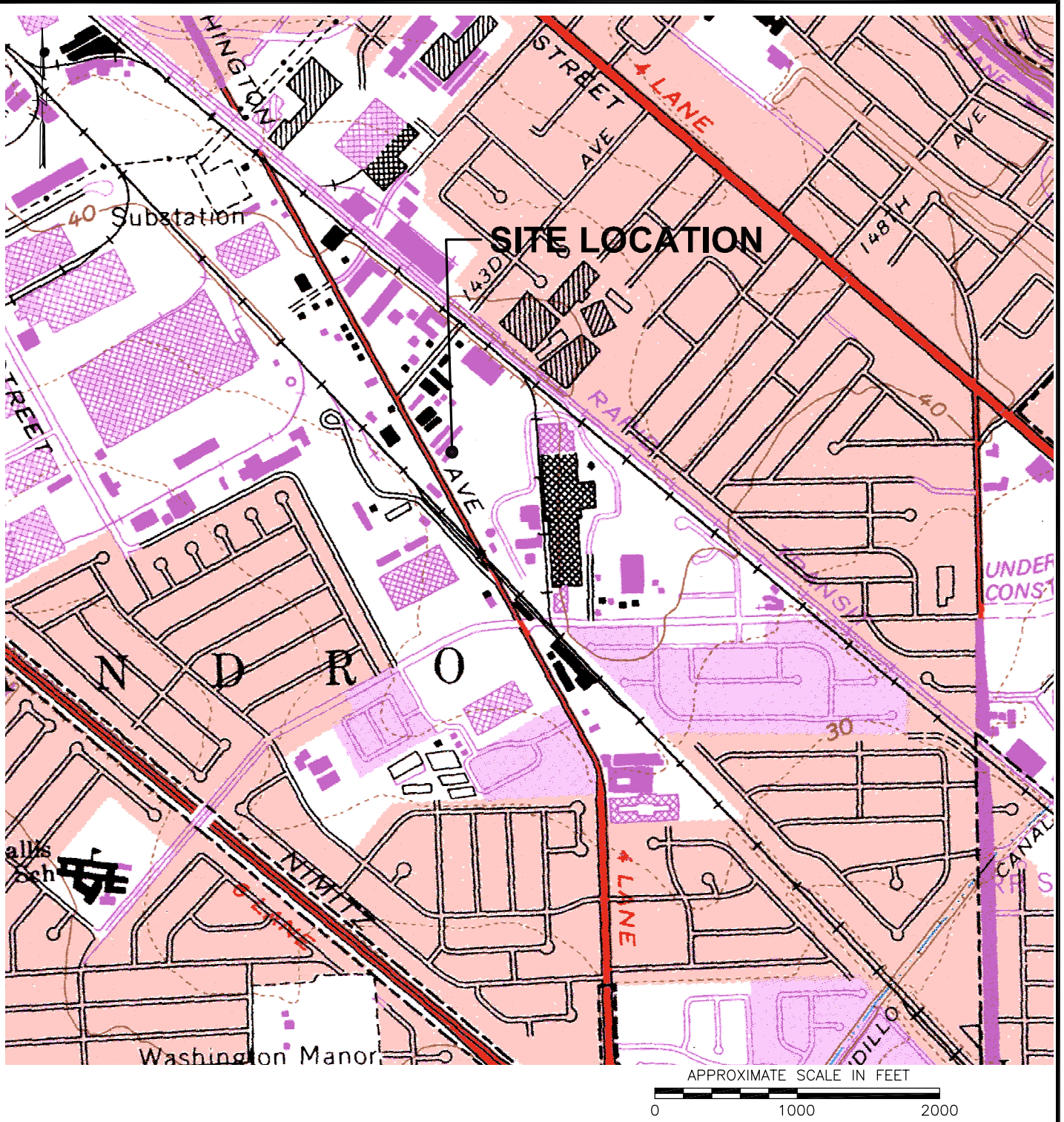
Thomas Sparrowe, PG
Principal Geologist



ATTACHMENTS:

- | | |
|--------------|--|
| Figure 1 | Site Location Map |
| Figure 2 | Semi-Annual 2016 Groundwater Contour Map – May 5, 2016 |
| Table 1 | Groundwater Elevation and Analytical Data |
| Attachment A | Field Procedures and Field Data Sheets |
| Attachment B | Laboratory Procedures, Certified Analytical Reports and Chain-of-Custody Records |
- cc: Mr. Jeff Kerry, Kerry & Associates
Mr. Gerald Donnelly

FIGURES



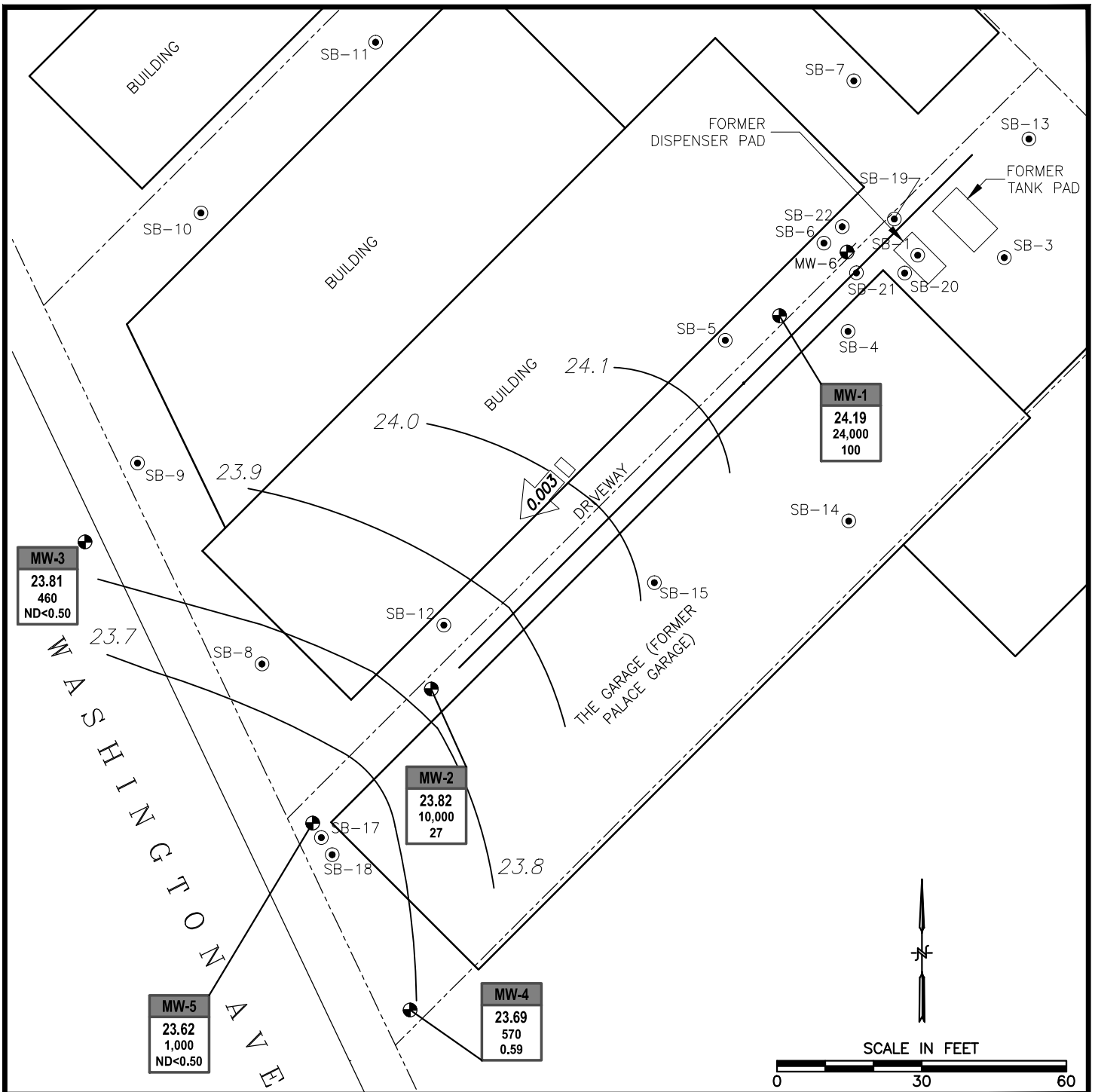
20140404.1.1433951 \\The-server\pocher\Client Drawings\innovex\palace garage_1601\PALACE GARAGE VICINITY MAP.dwg

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


INNOVEX
 ENVIRONMENTAL MANAGEMENT, INC.
 3900 Lennane Drive • Suite 130
 Sacramento • California • 95834
 Phone: (800) 988-7880



LEGEND:

- ⊙ SOIL BORING LOCATION
 - ⊕ MONITORING WELL LOCATION
 - ⊗ DESTROYED MONITORING WELL LOCATION
- | | |
|----------------|--|
| WELL | WELL DESIGNATION |
| ELEV | GROUNDWATER ELEVATION (FT ABOVE MSL) |
| GRO | GRO, BENZENE, and MTBE CONCENTRATIONS (µg/L) |
| BENZENE | |
- 20.0 GROUNDWATER ELEVATION CONTOURS (FEET ABOVE MEAN SEA LEVEL- NAVD 88)
 - 0.01 GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
 - < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS

NOTES:

1. BASEMAP SOURCE: MORROW SURVEYING 02/05/03

FIGURE 2

**SEMI-ANNUAL 2015
GROUNDWATER CONTOUR MAP
MAY 5, 2016**

PALACE GARAGE
14336 WASHINGTON AVENUE
SAN LEANDRO, CALIFORNIA



INNOVEX
ENVIRONMENTAL MANAGEMENT, INC.

3900 Lennane Drive • Suite 130
Sacramento • California • 95834
Phone: (800) 988-7880

TABLES

Table 1
Groundwater Elevation and Analytical Data

Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg/ GRO (mg/L)	B (mg/L)	T (mg/L)	E (mg/L)	X (mg/L)	Naphthalene (mg/L)
MW-1	12/31/2002	37.59	13.62	23.97	48,000	1,030	2,380	1,690	9,220	---
	9/22/2006		13.33	24.26	44,000	870	2,200	720	9,700	---
	12/21/2006		13.94	23.65	17,000	240	980	180	5,000	---
	3/29/2007		13.71	23.88	2,000	30	85	23	550	---
	9/27/2007		15.53	22.06	540	14	3.9	44	87	---
	12/20/2007		15.69	21.90	280	4.3	1.3	15	37	---
	2/21/2008		13.72	23.87	19,000	300	150	1,100	4,900	---
	5/15/2008		14.60	22.99	7,200	140	50	370	2,040	---
	8/7/2008		15.62	21.97	820	13	3.1	44	100	---
	11/13/2008		16.14	21.45	670	10	2.1	31	110	---
	6/19/2009		15.15	22.44	1,490	85.8	13.4	164	310	---
	11/3/2009		15.98	21.61	75	6.0	0.70	12	40.5	---
	5/4/2010		13.40	24.19	18,000	300	61	880	4,070	---
	11/8/2010		15.83	21.76	170	4.9	ND<0.50	7.7	24	---
	4/22/2011		12.34	25.25	3,800	250	48	810	3,260	---
	12/15/2011		14.77	22.82	1,500	21	0.88	29	4.6	---
	5/9/2012		13.56	24.03	20,000	190	27	810	3,150	---
	11/8/2012		15.68	21.91	630	2.8	1.4	30	51.9	---
	2/7/2013		13.99	23.60	---	---	---	---	---	---
	5/2/2013		14.65	22.94	2,000	79	13	580	1,780	180
	9/6/2013		15.96	21.63	---	---	---	---	---	---
	2/7/2014		16.75	20.84	740	3.0	ND<0.50	19	31	3.7
	9/16/2014		17.01	20.58	590	6.7	ND<0.50	18	24	3
	11/10/2015		16.95	20.64	1,300	32.0	3.0	82	47.4	18
	5/5/2016		13.40	24.19	24,000	100	23	1,800	3,850	580

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Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg/ GRO (mg/L)	B (mg/L)	T (mg/L)	E (mg/L)	X (mg/L)	Naphthalene (mg/L)
MW-2	12/31/2002	37.12	13.38	23.74	1,670	1,030	11.00	23	16.4	---
	9/22/2006		13.25	23.87	1,800	53	1.40	14	7.5	---
	12/21/2006		13.89	23.23	--	--	--		--	---
	3/29/2007		13.57	23.55	2,100	51	1.30	--	4.5	---
	9/27/2007		15.37	21.75	1,600	58	0.99	12	3.7	---
	12/20/2007		15.40	21.72	1,500	63	1.1	16	4.9	---
	2/21/2008		13.60	23.52	710	23	ND<0.50	6.2	1.1	---
	5/15/2008		14.47	22.65	1,600	84	1.4	28	9.8	---
	8/7/2008		15.48	21.64	2,100	86	1.6	22	9.0	---
	11/13/2008		15.99	21.13	2,300	46	1.1	15	4.5	---
	6/19/2009		15.03	22.09	931	60.1	ND<2.0	30	3.1	---
	11/3/2009		15.87	21.25	220	22	0.55	9.4	5.05	---
	5/4/2010		12.92	24.20	950	14	0.57	9.1	13.2	---
	11/8/2010		15.71	21.41	1,900	45	1.6	44	9.28	---
	4/22/2011		12.27	24.85	1,400	30	1.2	29	5.78	---
	12/15/2011		14.86	22.26	4,300	160	26	480	790	---
	5/9/2012		13.44	23.68	4,300	21	0.65	23	7.77	---
	11/8/2012		15.54	21.58	1,700	68	2.6	63	14.4	---
	2/7/2013		13.90	23.22	---	---	---	---	---	---
	5/2/2013		14.55	22.57	2,700	140	2.9	130	9.34	790
	9/6/2013		15.81	21.31	---	---	---	---	---	---
	2/7/2014		16.68	20.44	1,100	78	1.2	28	30	190
	9/16/2014		16.90	20.22	1,500	46	ND<0.50	18	1.2	26
	11/10/2015		16.85	20.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	5/5/2016		13.30	23.82	10,000	27	1.0	17	ND<1.5	8.0

Table 1
Groundwater Elevation and Analytical Data

Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg/ GRO (mg/L)	B (mg/L)	T (mg/L)	E (mg/L)	X (mg/L)	Naphthalene (mg/L)
MW-3	12/31/2002	37.01	13.29	23.72	<50	<0.5	<0.5	<0.5	<1.0	---
	9/22/2006		13.14	23.87	<50	<0.5	<0.5	<0.5	<1.5	---
	12/21/2006		--	--	--	--	--	--	--	---
	3/29/2007		13.47	23.54	<50	<0.5	<0.5	<0.5	<1.5	---
	9/27/2007		15.29	21.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	12/20/2007		15.30	21.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	2/21/2008		---	---	---	---	---	---	---	---
	5/15/2008		14.35	22.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---
	8/7/2008		15.39	21.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	11/13/2008		15.90	21.11	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	6/19/2009		14.94	22.07	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<2.0	---
	11/3/2009		15.76	21.25	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---
	5/4/2010		13.20	23.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	11/8/2010		15.62	21.39	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	4/22/2011		12.17	24.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	12/15/2011		14.63	22.38	150	1.5	ND<0.50	3.0	12.2	---
	5/9/2012		13.36	23.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	11/8/2012		15.48	21.53	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	2/7/2013		13.79	23.22	---	---	---	---	---	---
	5/2/2013		14.41	22.60	75	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<1.0
	9/6/2013		15.74	21.27	---	---	---	---	---	---
	2/7/2014		16.50	20.51	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	9/16/2014		16.76	20.25	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	11/10/2015		17.70	19.31	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	5/5/2016		13.20	23.81	460	ND<0.50	ND<0.50	ND<0.50	ND<1.5	2.2

Table 1
Groundwater Elevation and Analytical Data

Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg/ GRO (mg/L)	B (mg/L)	T (mg/L)	E (mg/L)	X (mg/L)	Naphthalene (mg/L)
MW-4	12/31/2002	37.09	13.45	23.64	<50	<0.5	<0.5	<0.5	<1.0	---
	9/22/2006		13.40	23.69	<50	<0.5	<0.5	<0.5	<1.5	---
	12/21/2006		13.86	23.23	<50	<0.5	<0.5	<0.5	<1.5	---
	3/29/2007		13.69	23.40	<50	<0.5	<0.5	<0.5	<1.5	---
	9/27/2007		15.48	21.61	ND<50	1.5	ND<0.50	0.71	0.74	---
	12/20/2007		15.28	21.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	2/21/2008		13.56	23.53	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---
	5/15/2008		14.58	22.51	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---
	8/7/2008		15.57	21.52	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	11/13/2008		16.09	21.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---
	6/19/2009		15.15	21.94	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<2.0	---
	11/3/2009		16.03	21.06	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---
	5/4/2010		13.11	23.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	11/8/2010		15.89	21.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	4/22/2011		12.40	24.69	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	12/15/2011		15.03	22.06	86	ND<0.50	ND<0.50	ND<0.50	1.3	---
	5/9/2012		13.51	23.58	ND<50	ND<0.50	0.84	ND<0.50	ND<1.5	---
	11/8/2012		15.64	21.45	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	---
	2/7/2013		13.98	23.11	---	---	---	---	---	---
	5/2/2013		14.61	22.48	68	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<1.0
	9/6/2013		15.90	21.19	---	---	---	---	---	---
	2/7/2014		16.69	20.40	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	9/16/2014		16.97	20.12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	11/10/2015		16.89	20.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	5/5/2016		13.40	23.69	570	0.59	1.0	1.8	4.1	2.3

Table 1
Groundwater Elevation and Analytical Data

Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg/ GRO (mg/L)	B (mg/L)	T (mg/L)	E (mg/L)	X (mg/L)	Naphthalene (mg/L)
MW-5	2/2/2012	37.27	15.06	22.21	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	---
	5/9/2012		13.68	23.59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	---
	resurvey 10/11/12	36.96								---
	11/8/2012		15.62	21.34	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	---
	2/7/2013		13.91	23.05	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<1.5
	5/2/2013		14.56	22.40	82	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<1.5
	9/6/2013		15.87	21.09	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.50	ND<1.5
	2/7/2014		16.70	20.26	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	9/16/2014		16.96	20.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	11/10/2015		16.88	20.08	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
	5/5/2016		13.34	23.62	1,000	ND<0.50	ND<0.50	ND<0.50	ND<1.5	ND<1.0
MW-6	2/2/2012	37.34	14.63	22.71	17,000	340	57	1,900	2,100	---
	5/9/2012		13.26	24.08	34,000	170	310	1,700	3,920	---
	11/8/2012		15.36	21.98	9,700	210	270	2,800	3,320	---
	2/7/2013		13.63	23.71	7,700	250	240	2,800	4,790	1,100
	5/2/2013		14.35	22.99	16,000	82	36	1,200	1,050	490
	9/6/2013		15.64	21.70	19,000	130	61	1,900	1,480	830
	2/7/2014		16.62	20.72	13,000	46	13	550	224	290
	9/16/2014		16.70	20.64	5,400	78	14	780	282	410
Destroyed May 15, 2015										

Table 1
Groundwater Elevation and Analytical Data
Palace Garage
14336 Washington Avenue
San Leandro, California

Well ID	Date Sampled	Casing Elevation (Feet MSL)	Depth To Water (Feet)	Groundwater Elevation (Feet)	TPHg (mg/L)	B (mg/L)	T (mg/L)	E (mg/L)	X (mg/L)	Naphthalene (mg/L)
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ABBREVIATIONS:

- TPHg/ GRO total petroleum hydrocarbons as gasoline. Gasoline range organics
- B Benzene
- T Toluene
- E Ethylbenzene
- X Total xylenes
- mg/L Micrograms per liter (parts per billion [ppb])
- Not analyzed/measured/applicable
- ND< Not detected at or above specified laboratory reporting limit
- Bold** Current sampling event
- MSL mean sea level

LIMITATIONS:

Background information, including but not limited to previous field measurements, analytical results, Site plans, and other data have been obtained from previous consultants, and/or third parties, in the preparation of this report. Closure Solutions has relied on this information as furnished. Closure Solutions is not responsible for, nor has it confirmed the accuracy of data collected or generated by others.

ATTACHMENT A
FIELD PROCEDURES AND FIELD DATA SHEETS



Standard Operating Procedures: Basic Gauge, Purge, and Sample.

Routine Water Level Measurements

1. Confirm that water or debris will not enter the well box upon removal of the well box lid.
2. Remove the cover using the appropriate tools.
3. Inspect the wellhead for deficiencies and document accordingly.
4. Confirm that water or debris will not enter the well upon removal of the well cap.
5. Unlock and remove the well cap lock (if applicable). If lock is not functional cut it off.
6. Loosen and remove the well cap. **CAUTION: DO NOT PLACE YOUR FACE OR HEAD DIRECTLY OVER WELLHEAD WHEN REMOVING THE WELL CAP. WELL CAP MAY BE UNDER PRESSURE AND/OR MAY RELEASE ACCUMULATED AND POTENTIALLY HARMFUL VAPORS.**
7. Verify and identify survey point as written on S.O.W.
TOC: If survey point is listed as Top of Casing (TOC), look for the exact survey point in the form of a notch or mark on the top of the casing. If no mark is present, use the north side of the casing as the measuring point.
TOB: If survey point is listed as Top of Box (TOB), the measuring point will be established manually. Place the inverted well box lid halfway across the well box opening and directly over the casing. The lower edge of the inverted cover directly over the casing will be the measuring point.
8. Put new Nitrile gloves on your hands.
9. Slowly lower the decontaminated water level meter probe into the well until it signals contact with water with a tone and/or flashing a light.
10. Gently raise the probe tip slightly above the water and hold it there. Wait momentarily to see if the meter emits a tone, signaling rising water in the casing. Gently lower the probe tip slightly below the water. Wait momentarily to see if the meter stops emitting a tone, signaling dropping water in the casing. Continue process until water level stabilizes indicating that the well has equilibrated.
11. While holding the probe at first contact with water and the tape against the measuring point, note depth. Repeat twice to verify accuracy. Write down measurement on well gauging sheet under depth to water column.
12. Recover probe, replace and tighten well cap, replace lock (if applicable), replace well box cover and tighten hardware (if applicable).

Purging With a Bailer (Teflon or Disposable)

1. Attach bailer cord or string to bailer. Leave other end attached to spool.
2. Gently lower empty bailer into well until well bottom is reached.
3. Cut cord from spool. Tie a loop at end cord.
4. Gently raise full bailer out of well and clear of wellhead. Do not let the bailer or cord touch the ground.
5. Pour contents into graduated 5-gallon bucket or other graduated receptacle.
6. Repeat purging process.
7. Upon removal of first casing volume, fill clean parameter cup with purge water, empty the remainder of the purge water into the bucket, lower the bailer back into the well and secure the cord on the Sampling Vehicle.
8. Use the water in the cup to collect and record parameter measurements.
9. Continue purging until second casing volume is removed.

Standard Operating Procedures: Basic Gauge, Purge and Sample

10. Collect parameter measurements.
11. Continue purging until third casing volume is removed.

Purging With a Fixed Speed Electric Submersible Pump

1. Position thoroughly decontaminated pump over the top of the well.
2. Gently unreel and lower the pump to the well bottom.
3. Raise the pump to client specified location within screened interval. If no direction is given the pump inlet will be placed 5 feet above the bottom of the well.
4. Secure the hose reel.
5. Begin purging.
6. Verify pump rate with flow meter or graduated 5-gallon bucket.
7. Upon removal of first casing volume, fill clean parameter cup with water.
8. Use the water in the cup to collect and record parameter measurements.
9. Continue purging until second casing volume is removed.
10. Collect parameter measurements.
11. Continue purging until third casing volume is removed.
12. Upon completion of purging, gently recover the pump and secure the reel.

Sampling with a Bailer (Teflon or Disposable)

1. Put new Latex or Nitrile gloves on your hands.
2. Determine required bottle set.
3. Fill out sample labels completely and attach to bottles.
4. Arrange bottles in filling order and loosen caps (see Determine Collection Order below).
5. Attach bailer cord or string to bailer. Leave other end attached to spool.
6. Gently lower empty bailer into well until water is reached.
7. As bailer fills, cut cord from spool and tie end of cord to hand.
8. Gently raise full bailer out of well and clear of wellhead. Do not let the bailer or cord touch the ground. If a set of parameter measurements is required, go to step 9. If no additional measurements are required, go to step 11.
9. Fill a clean parameter cup, empty the remainder contained in the bailer into the sink, lower the bailer back into the well and secure the cord on the sampling vehicle. Use the water in the cup to collect and record parameter measurements.
10. Fill bailer again and carefully remove it from the well.
11. Slowly fill and cap sample bottles. Fill and cap volatile compounds first, then semivolatile, then inorganic (see following steps). Return to the well as needed for additional sample material.
12. Fill 40-milliliter vials for volatile compounds as follows: Slowly pour water down the inside on the vial. Carefully pour the last drops creating a convex or positive meniscus on the surface. Gently screw the cap on eliminating any air space in the vial. Turn the vial over, tap several times and check for trapped bubbles. If bubbles are present, repeat the process.
13. Fill 1 liter amber bottles for semi-volatile compounds as follows: Slowly pour water into the bottle. Leave approximately 1 inch of headspace in the bottle. Cap bottle.
14. Field filtering of inorganic samples using a disposable bailer is performed as follows: Attach 0.45 micron filter to connector plug. Attach connector plug to bottom of full disposable bailer. Gravity feed water through the filter and into the sample bottle. If high turbidity level of water clogs filter, repeat process with new filter until bottle is filled. Leave headspace in the bottle. Cap bottle.

Standard Operating Procedures: Basic Gauge, Purge and Sample

15. Bag samples and place in ice chest.
16. Note sample collection details on well data sheet and Chain of Custody.

Low Flow Purging With a Variable Speed Submersible Pump or Peristaltic Pump

1. Position thoroughly decontaminated pump over the top of the well.
2. Gently unreel and lower the pump to the well bottom.
3. Raise the pump to client specified location within screened interval. If no direction is given the pump inlet will be placed 5 feet above the bottom of the well.
4. Secure the hose reel.
5. Begin purging.
6. Verify pump rate with flow meter or graduated 5-gallon bucket and a water level meter placed no more than 3 feet below the top of the groundwater table within the well casing.
7. The objective of low flow purging is to pump at a rate minimizing stress, or drawdown, to the ground water table. Flow rates on the order of 0.1 to 0.5 L/min should be achieved with a water level drawdown of less than 0.3 feet once pumping has stabilized.
8. Groundwater stabilization is achieved after measured water quality parameters are within an acceptable range for three consecutive readings taken several minutes apart.

The following guidelines may be used for defining acceptable range.

PH +/- 0.2 units

Conductivity +/- 3% of reading

Dissolved Oxygen +/- 10% of reading or 0.2 mg/L, whichever is greater.

Redox potential (ORP or Eh) +/- 20 mV

Turbidity +/- 10% of reading or 5 NTU, whichever is greater

8. Upon stabilization of the water quality parameters and removal of roughly one casing volume, the well is ready to sample. **Note:** the pump pure rate should not be adjusted during sampling. Sampling should be conducted from the pump tubing outfall if possible to ensure minimal disturbance of the stabilized parameters in the well.
9. Place all sample bottles at the pump outfall and collect the required number of samples from the groundwater flow stream. Slowly fill and cap sample bottles.
10. Upon sampling completion turn off the purge pump, gently recover it and secure the reel.

FIELD DATA SHEET-DEPTH TO WATER DATA

SITE INFORMATION

Site Information

Palace Garage <small>Project Name</small>	5/5/2016 <small>Date</small>	1601 07 01 <small>Project Number</small>
14336 Washington Ave. <small>Address</small>	San Leandro <small>City</small>	CA <small>State</small>

Water Level Equipment

- Electronic Indicator
- Oil Water Interface Probe
- Other (specify) _____

KD/TB

Event: 2Q 2016

DEPTH TO WATER DATA

DTW Order	Well ID	Time (24:00)	DTW (toc)	Total Depth (toc)	Depth to SPH / Thickness	Notes:
5	MW-1	09:26	13.40	23.25	—	
4	MW-2	09:22	13.30	23.64	—	
1	MW-3	09:05	13.70	23.06	—	
2	MW-4	09:12	13.40	21.85	—	
3	MW-5	09:19	13.34	17.6	—	
	MW-6					Well Destroyed
						<div style="border: 1px solid black; padding: 5px;"> <p>LT 1 blue poly Drym onsite 34. Full ></p> </div>

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name: Palace Garage Date: May 5, 2016

Sample No.: MW-1

Samplers Name: KD/TB

Purge Equipment:
 Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 Foot Valve

Sample Equipment:
 Disposable Bailer
 12 v. Pump -
 Bladder Pump
 Foot Valve

Analyses Requested (circle all that apply):

Number and Types of Bottle Used:

<u>TPH-G / BTEX / Naphtalene</u>	<u>3 voa's w/hc</u>
----------------------------------	---------------------

Well Number: MW-1 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 13.40 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 23.25 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 9.85 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 1.58 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 4.73 gallons (volume X 3) 3/4" = (.0625 Gallon/Feet)

Lab: SunStar

Transportation:

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
<u>12:22</u>	<u>start</u>	<u>---</u>	<u>---</u>	<u>(mg/L)</u>	<u>---</u>	<u>(g/L)</u>	<u>---</u>	<u>---</u>
<u>12:23</u>	<u>1.50</u>	<u>16.42</u>	<u>0.462</u>	<u>11.55</u>	<u>7.36</u>	<u>0.299</u>	<u>157: hazy gray - mod.</u>	
<u>12:25</u>	<u>3.00</u>	<u>18.31</u>	<u>0.865</u>	<u>8.54</u>	<u>7.00</u>	<u>0.556</u>	<u>52.5: clear - min.</u>	
<u>12:27</u>	<u>5.00</u>	<u>18.22</u>	<u>0.919</u>	<u>8.18</u>	<u>6.95</u>	<u>0.588</u>	<u>24.1: clear - min.</u>	

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:
 Original Height of Water Column = 9.85 x 0.8 = 7.88 - (Well Depth) 15.37 = Depth to water

Time: 12:40 1st measured depth to water, 13.40 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 12:40 Sample ID: MW-1 Depth: 13.40

Comments

Mod. gasoline odor. No sheen

Well Condition:

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name: Palace Garage Date: May 5, 2016

Sample No.: MW-2

Samplers Name: KD/TB

Purge Equipment:
 Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 Foot Valve

Sample Equipment:
 Disposable Bailer
 12 v. Pump -
 Bladder Pump
 Foot Valve

Analyses Requested (circle all that apply):

Number and Types of Bottle Used:

<u>TPH-G / BTEX / Naphtalene</u>	<u>3 voa's w/hc</u>
----------------------------------	---------------------

Well Number: MW-2 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 13.30 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 23.64 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 10.34 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 1.65 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 4.96 gallons (volume X 3) 3/4" = (.0625 Gallon/Feet)

Lab: SunStar

Transportation:

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
11:57	start			(mg/L)		(g/L)		
11:59	1.50	18.99	0.944	7.70	7.31	0.603	124: hazy gray - mod.	
12:01	3.00	18.84	1.03	7.71	7.10	0.657	37.1: clear - min.	
12:03	5.00	18.72	1.01	7.61	7.12	0.644	59.5: clear - min	

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:

Original Height of Water Column = 10.34 x 0.8 = 8.27 - (Well Depth) 15.37 = Depth to water

Time: 12:03 1st measured depth to water, 13.30 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 12:03 Sample ID: MW-2 Depth: 1330

Comments

Well Condition:

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name: Palace Garage Date: May 5, 2016

Sample No.: MW-3

Samplers Name: KD/TB

Purge Equipment:
 Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 Foot Valve

Sample Equipment:
 Disposable Bailer
 12 v. Pump -
 Bladder Pump
 Foot Valve

Analyses Requested (circle all that apply):

Number and Types of Bottle Used:

<u>TPH-G / BTEX / Naphtalene</u>	<u>3 voa's w/hc</u>

Well Number: MW-3 Well Diameter: 2" with Casing Volume of:
 Depth to Water: 13.20 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 23.06 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 9.86 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 1.58 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 4.73 gallons (volume X 3) 3/4" = (.0625 Gallon/Feet)

Lab: SunStar

Transportation:

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
1006	Start			NAI			NTU	
1008	2	18.84	0.609	8.69	6.38	1389	120	
1016	4	18.74	0.519	8.19	6.86	1328	29	
1018	5	18.81	0.513	8.10	6.74	1340		
Stop:	Purge Complete							
	2							

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:

Original Height of Water Column = $9.86 \times 0.8 = 7.89$ - (Well Depth) 23.06 = Depth to water 15.17

Time: 1026 1st measured depth to water, 13.20 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 1029 Sample ID: MW-3 Depth: 13.20

Comments

Stop Pump 1010 → 1015 Restart 1016

Well Condition:

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name: Palace Garage Date: May 5, 2016

Sample No.: MW-4

Samplers Name: KD/TB

Purge Equipment:
 Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 Foot Valve

Sample Equipment:
 Disposable Bailer
 12 v. Pump -
 Bladder Pump
 Foot Valve

Analyses Requested (circle all that apply):

Number and Types of Bottle Used:

<u>TPH-G / BTEX / Naphtalene</u>	<u>3 voa's w/hc</u>
----------------------------------	---------------------

Well Number: MW-4 Well Diameter: 3/4" with Casing Volume of:
 Depth to Water: 13.40 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 23.64 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 10.24 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 0.64 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 1.92 gallons (volume X 3) 3/4" = (.0625 Gallon/Feet)

Lab: SunStar

Transportation:

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
<u>10:58</u>	<u>Start</u>	<u>---</u>	<u>---</u>	<u>(mg/L)</u>	<u>---</u>	<u>(g/L)</u>	<u>---</u>	<u>---</u>
<u>11:01</u>	<u>0.75</u>	<u>19.54</u>	<u>0.487</u>	<u>7.77</u>	<u>6.95</u>	<u>0.319</u>	<u>high: brown-high</u>	<u>---</u>
<u>11:09</u>	<u>1.50</u>	<u>19.04</u>	<u>0.488</u>	<u>7.82</u>	<u>6.96</u>	<u>0.317</u>	<u>↓</u>	<u>---</u>
<u>11:11</u>	<u>2.00</u>	<u>19.22</u>	<u>0.471</u>	<u>7.59</u>	<u>6.94</u>	<u>0.308</u>	<u>↓</u>	<u>---</u>

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:

Original Height of Water Column = 10.24 x 0.8 = 8.19 - (Well Depth) 23.64 = Depth to water 22.64

Time: 11:24 1st measured depth to water, 13.56 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: 1st measured depth to water, feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 11:24 Sample ID: MW-4 Depth: 13.56

Comments

Well Condition:

GROUND WATER MONITORING WELL SAMPLING FIELD DATA SHEET

Project Name: Palace Garage Date: May 5, 2016

Sample No.: MW-5

Samplers Name: KD/TB

Purge Equipment:

- Bailer: Disposable or Acrylic
 12 v. Pump -
 Bladder Pump
 Foot Valve

Sample Equipment:

- Disposable Bailer
 12 v. Pump -
 Bladder Pump
 Foot Valve

Analyses Requested (circle all that apply):

<u>TPH-G / BTEX / Naphtalene</u>	<u>3 voa's w/hc</u>

Number and Types of Bottle Used:

Well Number: MW-5 Well Diameter: 2 with Casing Volume of:
 Depth to Water: 13.34 TOC 2" = (0.16 Gallon/Feet)
 Well Depth: 17.6 BGS or TOC 4" = (0.65 Gallon/Feet)
 Height W-Column: 4.26 feet (well depth - depth to water) 5" = (1.02 Gallon/Feet)
 Volume in Well: 0.68 gallons (casing volume X height) 6" = (1.47 Gallon/Feet)
 Gallons to purge: 2.04 gallons (volume X 3) 3/4" = (.0625 Gallon/Feet)

Lab: SunStar

Transportation:

Time (24 hr.)	Volume Purged (Gallons)	Temperature (°C)	Conductivity (ms/cm)	D.O. (ppm)	pH	TDS (ppm)	Turbidity: Color - Fines	Micropurge Parameters Stabilized
<u>11:33</u>	<u>start</u>	<u>---</u>	<u>---</u>	<u>(mg/L)</u>	<u>---</u>	<u>(g/L)</u>		
<u>11:34</u>	<u>0.75</u>	<u>19.42</u>	<u>0.636</u>	<u>8.25</u>	<u>6.89</u>	<u>0.407</u>	<u>566: hazy brown - med.</u>	
<u>11:36</u>	<u>1.50</u>	<u>19.22</u>	<u>0.636</u>	<u>7.91</u>	<u>6.82</u>	<u>0.407</u>	<u>156: ↓</u>	
<u>11:38</u>	<u>4.00</u>	<u>19.16</u>	<u>0.633</u>	<u>7.75</u>	<u>6.79</u>	<u>0.405</u>	<u>65: clear - min.</u>	

Wait for 80% well volume recovery prior to sampling.
 Calculate depth to water (from TOC), for 80% well volume recovery:

Calculate 80% of original well volume:

Original Height of Water Column = 4.26 x 0.8 = 3.41 - (Well Depth) 14.19 = Depth to water

Time: 11:52 1st measured depth to water, 13.34 feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No
 Time: _____ 1st measured depth to water, _____ feet below TOC. Is well within 80% of original well casing volume: Yes No

Sample Well

Time: 11:52 Sample ID: MW-5 Depth: 13.34

Comments

Well Condition:

ATTACHMENT B
LABORATORY PROCEDURES, CERTIFIED ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY RECORDS



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

11 May 2016

Brian Busch
Innovex Environmental Management, Inc.
2300 Clayton Rd. Suite 1435
Concord, CA 94520
RE: Palace Garage

Enclosed are the results of analyses for samples received by the laboratory on 05/06/16 09:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager



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

Innovex Environmental Management, Inc.
2300 Clayton Rd. Suite 1435
Concord CA, 94520

Project: Palace Garage
Project Number: 1601 0701
Project Manager: Brian Busch

Reported:
05/11/16 16:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T160912-01	Water	05/05/16 12:32	05/06/16 09:15
MW-2	T160912-02	Water	05/05/16 12:05	05/06/16 09:15
MW-3	T160912-03	Water	05/05/16 10:29	05/06/16 09:15
MW-4	T160912-04	Water	05/05/16 11:21	05/06/16 09:15
MW-5	T160912-05	Water	05/05/16 11:48	05/06/16 09:15

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Innovex Environmental Management, Inc.
2300 Clayton Rd. Suite 1435
Concord CA, 94520

Project: Palace Garage
Project Number: 1601 0701
Project Manager: Brian Busch

Reported:
05/11/16 16:35

DETECTIONS SUMMARY

Sample ID: MW-1 **Laboratory ID:** T160912-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Naphthalene	580	50		ug/l	EPA 8260B	
Benzene	100	5.0		ug/l	EPA 8260B	
Toluene	23	0.50		ug/l	EPA 8260B	
Ethylbenzene	1800	25		ug/l	EPA 8260B	
m,p-Xylene	3700	50		ug/l	EPA 8260B	
o-Xylene	150	5.0		ug/l	EPA 8260B	
C6-C12 (GRO)	24000	500		ug/l	EPA 8260B	

Sample ID: MW-2 **Laboratory ID:** T160912-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Naphthalene	8.0	1.0		ug/l	EPA 8260B	
Benzene	27	0.50		ug/l	EPA 8260B	
Toluene	1.0	0.50		ug/l	EPA 8260B	
Ethylbenzene	17	0.50		ug/l	EPA 8260B	
C6-C12 (GRO)	10000	500		ug/l	EPA 8260B	

Sample ID: MW-3 **Laboratory ID:** T160912-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Naphthalene	2.2	1.0		ug/l	EPA 8260B	
C6-C12 (GRO)	460	50		ug/l	EPA 8260B	

Sample ID: MW-4 **Laboratory ID:** T160912-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Naphthalene	2.3	1.0		ug/l	EPA 8260B	
Benzene	0.59	0.50		ug/l	EPA 8260B	
Toluene	1.0	0.50		ug/l	EPA 8260B	
Ethylbenzene	1.8	0.50		ug/l	EPA 8260B	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager

Innovex Environmental Management, Inc.
2300 Clayton Rd. Suite 1435
Concord CA, 94520

Project: Palace Garage
Project Number: 1601 0701
Project Manager: Brian Busch

Reported:
05/11/16 16:35

Sample ID: MW-4

Laboratory ID: T160912-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
m,p-Xylene	2.8	1.0		ug/l	EPA 8260B	
o-Xylene	1.3	0.50		ug/l	EPA 8260B	
C6-C12 (GRO)	570	50		ug/l	EPA 8260B	

Sample ID: MW-5

Laboratory ID: T160912-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C6-C12 (GRO)	1000	50		ug/l	EPA 8260B	





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Innovex Environmental Management, Inc. 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: 1601 0701 Project Manager: Brian Busch	Reported: 05/11/16 16:35
--	---	-----------------------------

MW-1
T160912-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Naphthalene	580	50	ug/l	50	6050608	05/06/16	05/06/16	EPA 8260B	
Benzene	100	5.0	"	10	"	"	"	"	
Toluene	23	0.50	"	1	"	"	"	"	
Ethylbenzene	1800	25	"	50	"	"	"	"	
m,p-Xylene	3700	50	"	"	"	"	"	"	
o-Xylene	150	5.0	"	10	"	"	"	"	
C6-C12 (GRO)	24000	500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		186 %		83.5-119	"	"	"	"	S-GC
<i>Surrogate: Dibromofluoromethane</i>		98.8 %		81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		108 %		88.8-117	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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--	---	-----------------------------

MW-2
T160912-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Naphthalene	8.0	1.0	ug/l	1	6050608	05/06/16	05/09/16	EPA 8260B	
Benzene	27	0.50	"	"	"	"	"	"	
Toluene	1.0	0.50	"	"	"	"	"	"	
Ethylbenzene	17	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	10000	500	"	10	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		91.2 %		81-136	"	"	"	"	
Surrogate: Toluene-d8		108 %		88.8-117	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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Innovex Environmental Management, Inc. 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: 1601 0701 Project Manager: Brian Busch	Reported: 05/11/16 16:35
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MW-3
T160912-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Naphthalene	2.2	1.0	ug/l	1	6050608	05/06/16	05/06/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	460	50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %		83.5-119	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		81-136	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.6 %		88.8-117	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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Innovex Environmental Management, Inc. 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: 1601 0701 Project Manager: Brian Busch	Reported: 05/11/16 16:35
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MW-4
T160912-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Naphthalene	2.3	1.0	ug/l	1	6050608	05/06/16	05/06/16	EPA 8260B	
Benzene	0.59	0.50	"	"	"	"	"	"	
Toluene	1.0	0.50	"	"	"	"	"	"	
Ethylbenzene	1.8	0.50	"	"	"	"	"	"	
m,p-Xylene	2.8	1.0	"	"	"	"	"	"	
o-Xylene	1.3	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	570	50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %		81-136	"	"	"	"	
Surrogate: Toluene-d8		97.1 %		88.8-117	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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Innovex Environmental Management, Inc. 2300 Clayton Rd. Suite 1435 Concord CA, 94520	Project: Palace Garage Project Number: 1601 0701 Project Manager: Brian Busch	Reported: 05/11/16 16:35
--	---	-----------------------------

MW-5
T160912-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Naphthalene	ND	1.0	ug/l	1	6050608	05/06/16	05/06/16	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
C6-C12 (GRO)	1000	50	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		98.4 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %		81-136	"	"	"	"	
Surrogate: Toluene-d8		99.1 %		88.8-117	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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Innovex Environmental Management, Inc.
 2300 Clayton Rd. Suite 1435
 Concord CA, 94520

Project: Palace Garage
 Project Number: 1601 0701
 Project Manager: Brian Busch

Reported:
 05/11/16 16:35

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
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Batch 6050608 - EPA 5030 GCMS

Blank (6050608-BLK1)

Prepared & Analyzed: 05/06/16

Naphthalene	ND	1.0	ug/l							
Benzene	ND	0.50	"							
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: 4-Bromofluorobenzene	7.58		"	8.00		94.8	83.5-119			
Surrogate: Dibromofluoromethane	8.84		"	8.00		110	81-136			
Surrogate: Toluene-d8	7.80		"	8.00		97.5	88.8-117			

LCS (6050608-BS1)

Prepared: 05/06/16 Analyzed: 05/07/16

Benzene	21.3	0.50	ug/l	20.0		106	75-125			
Toluene	17.6	0.50	"	20.0		87.8	75-125			
Surrogate: 4-Bromofluorobenzene	7.44		"	8.00		93.0	83.5-119			
Surrogate: Dibromofluoromethane	11.1		"	8.00		139	81-136			S-GC
Surrogate: Toluene-d8	7.09		"	8.00		88.6	88.8-117			S-GC

LCS Dup (6050608-BSD1)

Prepared: 05/06/16 Analyzed: 05/07/16

Benzene	20.3	0.50	ug/l	20.0		102	75-125	4.66	20	
Toluene	18.4	0.50	"	20.0		91.8	75-125	4.40	20	
Surrogate: 4-Bromofluorobenzene	7.30		"	8.00		91.2	83.5-119			
Surrogate: Dibromofluoromethane	11.7		"	8.00		146	81-136			S-GC
Surrogate: Toluene-d8	6.74		"	8.00		84.2	88.8-117			S-GC

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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Innovex Environmental Management, Inc.
2300 Clayton Rd. Suite 1435
Concord CA, 94520

Project: Palace Garage
Project Number: 1601 0701
Project Manager: Brian Busch

Reported:
05/11/16 16:35

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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Katherine RunningCrane, Project Manager

Chain of Custody Record

T160912

Client: INNOVEX
 Address: 2300 CLAYTON Rd., CONCORD, CA
 Phone: _____ Fax: _____
 Project Manager: BRIAN BUSCH

Date: 5/5/16 Page: 1 Of 1
 Project Name: PALACE GARAGE
 Collector: K. Dolan / T. Beal Client Project #: 16010701
 Batch #: 1 SA 2016 EDF #: TO 600101043

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 (TPH.g/BTEX)	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
MW-1	5/5/16	1232	GW	3yoA'S	X										01		1
MW-2		1205		w/ HCL											02		
MW-3		1029													03		
MW-4		1121													04		
MW-5		1148													05		
Relinquished by: (signature) <u>[Signature]</u> Date / Time <u>5/5/16 1415</u>					Received by: (signature) <u>[Signature]</u> Date / Time <u>5-6-16 9:15</u>					Total # of containers		Notes					
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Chain of Custody seals Y/N/NA		Results to: BRIAN BUSCH@innovex.net Kevin.Dolan@innovex.net					
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Seals intact? Y/N/NA							
Relinquished by: (signature) _____ Date / Time _____					Received by: (signature) _____ Date / Time _____					Turn around time: <u>STD</u>							

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

COC 140805



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7160912

Client Name: INNOVEX Project: PALACE GARAGE

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 5-6-16 / 9:15

Total number of coolers received: 1

Temperature: Cooler #1	9.8	°C +/- the CF (- 0.2°C) =	9.6	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If NO:				
Samples received on ice?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No →	Complete Non-Conformance Sheet	
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input checked="" type="checkbox"/> No →	Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs 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: SL 5-6-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7160912

- **COOLERS**
 - Not Received (received COC only)
 - Leaking/Damaged
 - Other:
- **CUSTODY SEALS**
 - None
 - Not Intact
- **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**
 - Cooler/Sample Temp(s)
 - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
 - Not relinquished by client; No date/time relinquished
 - Incomplete information provide
 - COC not received – notify PM
- **CONTAINERS**
 - Leaking Broken
 - Extra Missing
- **LABELS**
 - Not the same sample ID / info as on the COC
 - Incomplete Information
 - Markings/Info illegible
- **SAMPLES**
 - Samples **NOT RECEIVED** but listed on COC
 - Samples received but **NOT LISTED** on COC
 - Logged based on Label Information and not COC
 - Logged according to Work Plan and not COC
 - Logged in, **ON HOLD** until further notice
 - Insufficient quantities for analysis
 - Improper container used
 - Mislabeled as to tests, preservatives, etc.
 - Holding time expired – list sample ID and test
 - Not preserved/Improper preservative used
 - Without Labels, no information on containers
 - Other

Comments: SAMPLES DID NOT MEET TEMPERATURE CRITERIA

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction														Preser.
VOA														

H: HCL, S: H2SO4, N: HNO3, V: VOA, SL: Sleeve, E: Encore, T: Terracore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, AGB: Amber Glass Bottle, n/l:l:HNO3-Lab filtered, n/f:HNO3-Field filtered, zna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

WORK ORDER

T160912

Client: Innovex Environmental Management, Inc.	Project Manager: Katherine RunningCrane
Project: Palace Garage	Project Number: 1601 0701

Report To:
 Innovex Environmental Management, Inc.
 Brian Busch
 2300 Clayton Rd. Suite 1435
 Concord, CA 94520

Date Due:	05/11/16 17:00 (3 day TAT)		
Received By:	Sunny Lounethone	Date Received:	05/06/16 09:15
Logged In By:	Sunny Lounethone	Date Logged In:	05/06/16 09:26

Samples Received at:	9.6°C		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	Yes		

Analysis	Due	TAT	Expires	Comments
T160912-01 MW-1 [Water] Sampled 05/05/16 12:32 (GMT-08:00) Pacific Time (US &				
8260	05/11/16 15:00	3	05/19/16 12:32	BTEX, GRO & Naphthalene only
T160912-02 MW-2 [Water] Sampled 05/05/16 12:05 (GMT-08:00) Pacific Time (US &				
8260	05/11/16 15:00	3	05/19/16 12:05	BTEX, GRO & Naphthalene only
T160912-03 MW-3 [Water] Sampled 05/05/16 10:29 (GMT-08:00) Pacific Time (US &				
8260	05/11/16 15:00	3	05/19/16 10:29	BTEX, GRO & Naphthalene only
T160912-04 MW-4 [Water] Sampled 05/05/16 11:21 (GMT-08:00) Pacific Time (US &				
8260	05/11/16 15:00	3	05/19/16 11:21	BTEX, GRO & Naphthalene only
T160912-05 MW-5 [Water] Sampled 05/05/16 11:48 (GMT-08:00) Pacific Time (US &				
8260	05/11/16 15:00	3	05/19/16 11:48	BTEX, GRO & Naphthalene only