PARTNER
Engineering and Science, Inc.

LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT

3037, 3101 & 3115 Adeline Street
Oakland, California 94608

May 24, 2013
Partner Project Number 13-99891.2
Client Reference Number WF-SF-13-005073-03-1

Prepared for

WELLS FARGO BANK - RETECHS
4601 Graywood Avenue
Long Beach, California 90808

PARTNER
Engineering and Science, Inc.

May 24, 2013

Mr. William Bater
Wells Fargo Bank - RETECHS
4601 Graywood Avenue
Long Beach, California 90808

Subject: **Limited Phase II Subsurface Investigation**
3037, 3101 & 3115 Adeline Street
Oakland, California 94608
Partner Project Number 13-99891.2
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Dear Mr. Bater:

The following letter report describes the field activities, methods, and findings of the Limited Phase II Subsurface Investigation conducted by Partner Engineering and Science, Inc. (Partner) at the above-referenced property. The purpose of the investigation was to provisionally investigate the potential impact of petroleum hydrocarbons, volatile organic compounds (VOCs), and/or metals to soil and/or groundwater as a consequence of a release or releases from former foundry and/or machine shop operations. Wells Fargo Bank provided project authorization electronically through Direct Award Number WF-SF-13-005073-03-1 and email authorization on May 14, 2013.

Site Description

The subject property consists of three contiguous parcels of land totaling approximately 0.64 acre located on the west side of Adeline Street between 32nd Street and 30th Street in a mixed commercial and residential area of Oakland, California. The subject property is improved with three vacant commercial office and warehouse buildings which were constructed between 1961 and 1984. The buildings were most recently occupied by Creative Stone Works, a fabricator of stone products. The remainder of the property is improved with asphalt-paved parking areas.

The subject property is bound by several single-family residences to the northwest; a vacant lot to the northeast; Adeline Street beyond which is a multi-family residential building, The Steel Works Lofts, a parking lot, and two single family residences to the southeast; and Champion Scaffold Services to the southwest.

Please see Figures 1 and 2 for a site vicinity map and site plan.

Site History

According to a previous March 2013 Partner Phase I Environmental Site Assessment (Phase I) report, the central and southern portions of the subject property were formerly developed with a bronze foundry and machine shops from at least 1951 through 1959. Although not identified in

the regulatory database for the storage and/or handling of hazardous materials, it should be noted that these tenants operated during a time of little to no regulatory oversight. Foundry and machine shop operations typically involve the use of petroleum products, solvents, and/or metals. No documentation of subsurface sampling was found during the course of the Phase I. Based on the nature of materials typically utilized in these operations, the length and time period of occupancy, and the absence of subsurface sampling, Partner concluded that the former foundry and machine shop operations represent a recognized environmental condition (REC).

Local Geology and Hydrogeology

Based on a review of the United States Geological Survey (USGS) *Oakland West, California* Quadrangle 7.5-minute series topographic map, the subject property is situated approximately 20 feet above mean sea level (amsl), and the local topography is sloping gently to the southwest.

The subject property is situated within the San Francisco Bay Plain, within approximately one mile of San Francisco Bay. The area occupies a late Pliocene structural depression that has been flooded several times in response to Pleistocene glacial cycles. A thick Plio-Pleistocene deposit (the Merced formation) occurs here, of which the lower 4,500 feet are marine and the upper 500 feet are mostly non-marine. The portion contains heavy minerals, indicating locally derived sediment. Approximately 100 feet above the marine-non-marine transition, the mineral assemblage changes abruptly to one identical with that carried by the Sacramento River system and derived primarily from the Sierra Nevada. The Property is underlain by up to fifty feet of unconsolidated to weakly consolidated Pleistocene and Holocene beach sand, marine muds, alluvium and artificial fill interbedded with marine and marsh deposits. Alluvium overlies Quaternary and Tertiary sedimentary rocks.

Based on borings advanced during this investigation, the underlying subsurface consists predominantly of dark gray, medium stiff, damp clay (CL) from the ground surface to approximately six feet bgs. From six to 11 feet bgs, the subsurface consists predominantly of medium brown, very stiff, damp clay (CL) with varying percentages of sand. From 11 to 15 feet bgs, the subsurface consists predominantly of medium brown, very stiff, sandy to clayey silt (ML), and from 15 to 20 feet bgs, the subsurface consists predominantly of medium brown, stiff, moist, gravelly clay of high plasticity (CH). Please refer to Appendix A for boring logs from this investigation.

According to subsurface investigations for a nearby closed Leaking Underground Storage Tank (LUST) site (Modern Mail Express, Inc. at 2836 Union Street, located approximately 0.2 mile southwest of the subject property) as reported on the State Water Resources Control Board (SWRCB) GeoTracker website, groundwater in the vicinity of the subject property is anticipated at a depth of approximately 20 to 25 feet below ground surface (bgs) with a southwesterly flow direction and under confined or semi-confined conditions. Groundwater was encountered at the subject property from 17.5 to 19.5 feet bgs during this investigation.

Field Activities

To provisionally investigate the potential impact of petroleum hydrocarbons, VOCs, and/or metals to soil and/or groundwater as a consequence of a release or releases from former foundry and/or machine shop operations, Partner conducted a Limited Phase II Subsurface Investigation. The investigation scope included 5 soil borings (PES-B1 through PES-B5).

Utility Clearance

Partner delineated the work area with white spray paint and notified Underground Services Alert North (USAN) to clear public utility lines as required by law at least 48 hours prior to drilling activities. USAN issued ticket number 0158570 for the project.

Permitting

Prior to drilling, Partner secured Well Permit Number W2013-0332 from the Alameda County Public Works Agency (ACPWA) – Water Resources Well Permit. Please see Appendix B for a copy of the permit acquired for this investigation.

Health and Safety Plan

Partner reviewed a site-specific Health and Safety Plan with on-site personnel involved in the project prior to the commencement of drilling activities.

Drilling Equipment

On May 1, 2013, Partner subcontracted with EnProbe (State of California C57 Water Well Drilling Contractor License Number 777007) to provide and operate drilling equipment. EnProbe, under the direction of Partner, advanced borings PES-B1 through PES-B5 with a truck-mounted Geoprobe Model 5400 drill rig. Drilling rods and sampling equipment were decontaminated between samples and borings to prevent cross-contamination.

Boring Locations

Borings PES-B1 through PES-B3 were advanced within the southwestern, northern, and southern portions of the subject property parking lot, respectively, where former foundry operations were performed. Boring PES-B4 was advanced in the northwestern portion of the subject property parking lot, where the former foundry machine shop was located. Boring PES-B5 was advanced in the southwestern interior of the subject property warehouse building, where machine shop operations were formerly conducted. Boring PES-B2 placement was limited due to the location of the current office building on the western portion of the property, and boring PES-B5 placement was limited due to numerous pallets of stacked stone material within the warehouse area. Please see Figure 2 for a site plan indicating boring locations.

Sampling Depths

Boring PES-B1, PES-B3, and PES-B4 were advanced to a terminal depth of 20 feet below ground surface (bgs). Boring PES-B2 was advanced to a terminal depth of 19 feet bgs, and boring PES-B5 was advanced to drilling refusal, which was encountered at a depth of approximately 18.2 feet bgs. Soil samples were collected continuously from each boring to the terminal depth. Based on field-screening results, four soil samples per boring were prepared for laboratory analyses. With the exception of boring PES-B5, a groundwater sample was collected from each boring at the terminal depth. Groundwater was not encountered within boring PES-B5 prior to drilling refusal.

Soil Sampling Methodology

Borings PES-B1 through PES-B4 was overlain by asphalt, which was penetrated using a punch bit attachment advanced by the drill rig. PES-B5 was overlain by concrete, which was penetrated using a concrete coring attachment advanced by the direct-push drill rig. Soil samples were collected using a 4-foot long by 2-inch diameter MacroCore sampler with a 4-foot long acetate liner, which was advanced by the direct-push drill rig using 4-foot long by 1.5-inch diameter drill rods. The sampler was driven into the subsurface to allow undisturbed soil to enter the open MacroCore barrel and retrieved in 4-foot intervals to recover the soil-filled liners.

A lengthwise section of each acetate liner was removed using a splitting tool to expose the soil. The soil column was visually inspected for discoloration, monitored for odors, and classified in accordance with the Unified Soil Classification System (USCS). Select intervals were placed in sealable plastic bags and field-screened with a photoionization detector (PID) calibrated to isobutylene. None of the samples exhibited visual staining, discoloration, or odor. PID readings ranged from 0.0 to 101.6 parts per million (ppm). Please refer to the boring logs in Appendix A for specific borings and depths where elevated PID readings were observed.

Soil depths selected for laboratory analysis were sampled directly from the liners using a disposable plastic syringe and retained in one methanol-preserved and two sodium bisulfate-preserved volatile organics analysis vials (VOAs) in accordance with EPA Method 5035 sampling protocol. A sample was also collected by transferring soil into a laboratory-supplied, 4-ounce, wide-mouth, unpreserved glass jar, which was sealed with a threaded, Teflon-lined lid. The jars were filled with soil to capacity to minimize headspace and reduce the potential for volatilization. The jars and VOAs were labeled for identification and stored in an iced cooler.

Groundwater Sampling Methodology

After soil sampling to the terminal depth, groundwater samples were collected by withdrawing the drill rods from the subsurface and installing ¾-inch diameter temporary monitoring wells within the open boreholes. Each monitoring well consisted of a 10-foot long, 0.010-inch factory-slotted polyvinyl chloride (PVC) screen at the terminal end and blank PVC risers from the top of the screen interval to the ground surface.

Groundwater samples were retrieved from each monitoring well using new 1/2-inch diameter bailers and conveyed into six hydrochloric acid-preserved VOA containers. Each vial was filled with no observable headspace or air bubbles to minimize the potential for volatilization, labeled for identification, and stored in an iced cooler.

New screens and bailers were used for each monitoring well. The risers were decontaminated between boreholes to prevent cross-contamination.

Probes were removed from the subsurface and the boreholes were backfilled with cement grout and capped with a concrete patch or asphalt to match existing ground cover after sampling.

Generated soil cuttings were containerized in a properly labeled and sealed 55-gallon drum and stored on-site. The derived waste will be profiled and transported under proper waste manifest to an appropriate licensed off-site facility for recycling and/or disposal pending the necessary laboratory analysis results.

Laboratory Analyses

Partner collected 20 soil and 4 groundwater samples on May 1, 2013, which were transported in an iced cooler under proper chain-of-custody protocol to SunStar Laboratories, Inc. (SunStar), a state-certified laboratory [California Department of Health Services (DHS) Environmental Laboratory Accreditation Program (ELAP) certificate number 2250] in the City of Lake Forest, California, for analysis on May 3, 2013. Based on field-screening results, one groundwater sample from boring PES-B1 and one soil sample from each of borings PES-B2 through PES-B5 (4 samples total) was initially analyzed for carbon chain total petroleum hydrocarbons (TPH-cc) in accordance with EPA Method 8015M and VOCs in accordance with EPA Method 8260B. One soil sample per boring was additionally analyzed for California Administrative Manual (CAM) 17 Metals in accordance with EPA Method 6010B/7471A. Based on review of preliminary laboratory analytical results, the remaining soil samples from boring PES-B2 (3 samples total) were additionally analyzed for TPH – diesel-range organics/oil-range organics (TPH-DRO/ORO) in accordance with EPA Method 8015M, naphthalene in accordance with EPA Method 8260B, and lead and copper in accordance with EPA Method 6010. The groundwater sample from boring PES-B2 was also analyzed for TPH-DRO/ORO in accordance with EPA Method 8015M and naphthalene in accordance with EPA Method 8260B. Based on the review of the cumulative laboratory analytical results, Soluble Threshold Limit Concentration (STLC) extraction was conducted on samples PES-B2-3 and analyzed for lead and copper for waste profiling purposes.

Investigation Scope Summary

Please see Table 1 for a summary of the borings, sampling schedule, and laboratory analyses for this investigation.

Laboratory Analysis Results

SunStar reported the laboratory analysis results on May 10, 2013 and May 20, 2013. Please see Tables 2 through 4 for a summary of the soil sample TPH-cc, VOCs, and CAM 17 Metals laboratory analysis results, respectively, and their regulatory screening levels. Please see Tables 5 and 6 for a summary of the groundwater TPH-cc and VOCs laboratory results, respectively, and their regulatory screening levels. Please see Table 7 for a comparison of the lead and copper laboratory results and 10 times STLC and Total Threshold Limit Concentration (TTLC) guidelines. Please see Table 8 for a comparison of the STLC extract lead and copper laboratory results and STLC guidelines.

Please see Appendix B for the full laboratory analysis reports, which includes chain-of-custody and laboratory quality assurance/quality control (QA/QC) documentation. Laboratory QA/QC data were within acceptable limits.

Discussion

Two of the analyzed soil samples (PES-B2-3 and PES-B2-7) contained detectable concentrations of total petroleum hydrocarbon – gasoline-range organics (TPH-GRO), TPH-DRO, TPH-ORO, n-butylbenzene, sec-butylbenzene, naphthalene, and/or n-propylbenzene. No other VOCs were detected in any of the soil samples.

Five soil samples were initially analyzed for CAM 17 Metals. Based on review of the preliminary results, the remaining soil samples from boring PES-B2 (three samples total) were additionally analyzed for total lead and total copper. Of the analyzed soil samples, three samples (PES-B1-3, PES-B2-3, PES-B5-3) contained concentrations of copper, lead and/or zinc exceeding back background concentrations for typical California soils (Kearney, 1996). No other metals were detected above background concentrations.

Based on review of the analytical results, sample PES-B2-3 was further subjected to STLC extraction and analyzed for lead and copper. This sample contained detectable concentrations of copper and lead.

None of the analyzed groundwater samples contained detectable concentrations of TPH-cc or VOCs.

Environmental Screening Levels

The San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) has established Environmental Screening Levels (ESLs) as an initial screening level evaluation. ESLs aid in assessing the potential threats to human health, terrestrial/aquatic habitats, and/or drinking water resources due to contaminants in soil, soil gas, and/or groundwater. Under most circumstances, the presence of contamination below applicable ESLs can be assumed to not pose a significant, chronic (i.e., long-term) adverse risk to the applicable receptor of concern. Conversely, sites that exceed ESLs generally require further evaluation and/or remediation. Please note that the ESLs

were developed using default assumptions (e.g., standard exposure factors) and, consequently, are only meant for screening level assessments. The ESLs should not be considered enforceable regulatory standards. Cleanup levels ultimately dependent on site-specific factors and are established by the regulatory agencies on a case-by-case basis. Please see Tables 2 and 4 for a comparison of detected soil TPH-cc and CAM 17 Metals concentrations, respectively, and available residential and commercial/industrial ESLs. Please see Table 5 for a comparison of detected groundwater TPH-cc and VOC concentrations, respectively, and available groundwater ESLs. According to information obtained from the RWQCB Geotracker website, groundwater in the vicinity of the subject property is utilized as a source of municipal and domestic supply and not as a potential source of drinking water. Detected soil and groundwater concentrations were accordingly compared to the ESLs for which groundwater is not a potential source of drinking water.

The detected TPH-GRO, n-butylbenzene, sec-butylbenzene, naphthalene, and/or n-propylbenzene concentrations did not exceed their respective residential or commercial/industrial ESLs. Two of the analyzed soil samples (PES-B2-3 and PES-B2-7) contained concentrations of TPH-DRO exceeding both residential and commercial/industrial ESLs, and concentrations of TPH-ORO exceeding residential ESLs only. Soil sample PES-B2-3 also contained an elevated concentration of naphthalene exceeding both residential and commercial/industrial ESLs.

None of the other analyzed soil samples contained detectable concentrations of TPH-cc or VOCs.

Of the metals exceeding background concentrations, one soil sample (PES-B2-3) contained concentrations of copper exceeding both residential and commercial/industrial ESLs. This sample also contained a concentration of lead exceeding residential ESLs, but was below commercial/industrial ESLs. The detected zinc concentration was below its respective residential and commercial/industrial ESLs.

The two analyzed groundwater samples, PES-B1-GW and PES-B2-GW, did not contain detectable levels of TPH-cc or VOCs.

Total Threshold Limit Concentrations/Soluble Threshold Limit Concentrations

Total Threshold Limit Concentrations (TTLCs) are established regulatory limits to determine if a waste would be considered hazardous due to toxicity. Generated wastes exceeding TTLCs require special handling procedures and can only be disposed at designated facilities. Soluble Threshold Limit Concentrations (STLCs) are established regulatory limits to determine if leachate resulting from a waste would be considered hazardous due to toxicity. A factor of 10 is generally applied to solid waste to account for the leachability of the waste. Please see Table 7 for a comparison of detected metals above background concentrations and their respective TTLCs and 10 times STLCs.

Each of the metals detected above background concentrations were below their respective TTLCs. The copper and lead concentrations in sample PES-B2-3 exceeded their respective 10 time STLCs. As such, STLC extraction was conducted on sample PES-B2-3 and analyzed for lead and copper. The extracted sample contained concentrations of lead and copper exceeding their respective STLC guidelines.

Summary and Conclusions

Partner conducted a Limited Phase II Subsurface Investigation at the subject property to provisionally investigate the potential impact of petroleum hydrocarbons, VOCs, and/or metals to soil and/or groundwater as a consequence of a release or releases from former foundry and/or machine shop operations. The scope of the investigation included five soil borings (PES-B1 through PES-B5), four of which were converted into temporary wells (PEs-B1 through PES-B5). Based on field-screening results, one groundwater sample and four soil samples were initially analyzed for TPH-cc and VOCs, and five samples were initially analyzed for CAM 17 Metals. Based on review of preliminary laboratory analytical results, the remaining soil samples from boring PES-B2 (3 samples total) were additionally analyzed for TPH-DRO/ORO, naphthalene, and lead and copper. The groundwater sample from boring PES-B2 was also analyzed for TPH-DRO/ORO and naphthalene. Based on the review of the cumulative laboratory analytical results, STLC extraction was conducted on samples PES-B2-3 and analyzed for lead and copper for waste profiling purposes.

Two of the analyzed soil samples contained detectable concentrations of TPH-GRO, TPH-DRO, TPH-ORO, n-butylbenzene, sec-butylbenzene, naphthalene, and/or n-propylbenzene. The detected TPH-GRO, n-butylbenzene, sec-butylbenzene, naphthalene, and/or n-propylbenzene concentrations were below their respective residential or commercial/industrial ESLs. Two of the analyzed soil samples (PES-B2-3 and PES-B2-7) contained concentrations of TPH-DRO exceeding both residential and commercial/industrial ESLs, and concentrations of TPH-ORO exceeding residential ESLs only. Soil sample PES-B2-3 also contained an elevated concentration of naphthalene exceeding both residential and commercial/industrial ESLs.

None of the other analyzed soil samples contained detectable concentrations of TPH-cc or VOCs.

Of the metal concentrations exceeding background concentrations, one soil sample (PES-B2-3) contained concentrations of copper exceeding both residential and commercial/industrial ESLs. This sample also contained a concentration of lead exceeding residential ESLs, but was below commercial/industrial ESLs. Each of the metals detected above background concentrations were below their respective TTLCs. The copper and lead concentrations in sample PES-B2-3 exceeded their respective 10 time STLCs. As such, STLC extraction was conducted on sample PES-B2-3 and analyzed for lead and copper. The extracted sample contained concentrations of lead and copper exceeding their respective STLC guidelines. Based on the exceedence of lead and copper STLCs, soil in the vicinity of boring PES-B2 would be classified as a hazardous waste.

None of the analyzed groundwater samples contained detectable concentrations of TPH-cc or VOCs.

Based on the results of this investigation, soil in the vicinity of boring PES-B2 has been impacted by TPH-DRO, TPH-ORO, naphthalene, lead and copper. Based on this limited assessment, the impacts appear to be relatively limited in vertical extent; however, the full extent of the impacts is currently unknown. Partner recommends that additional investigation be conducted in order to assess the extent of the documented impacts.

Limitations

This Report presents a summary of work conducted by Partner. The work includes observations of site conditions encountered and the analytical results provided by an independent third party laboratory of samples collected during the course of the project. The number and location of samples were selected to provide the required information. However, it cannot be assumed that the limited available data are representative of subsurface conditions in areas not sampled.

Conclusions and/or recommendations are based on the observations, laboratory analyses, and the governing regulations. Conclusions and/or recommendations beyond those stated and reported herein should not be inferred from this document.

Partner warrants that the environmental consulting services contained herein were accomplished in accordance with generally accepted practices in the environmental engineering, geology, and hydrogeology fields that existed at the time and location of work. No other warranties are implied or expressed.

Reports, both verbal and written, as they pertain to the property located at 3037, 3101, and 3115 Adeline Street in the City of Oakland, California, are for the sole use and benefit of Wells Fargo Bank. This report has no other purpose and may not be relied upon by another person or entity without the written consent of Partner.

Signatures of Participating Professionals

Thank you for the opportunity to be of service. If you have questions regarding this investigation, please contact the undersigned at (310) 615-4500.

Sincerely,

Elizabeth French
Staff Geologist

Terri Men
Project Manager

Joseph P. Derhake, PE
Principal

Attachments:

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1. Site Vicinity Map
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Appendices
A. Boring Logs
B. ACPWA Permit
C. Laboratory Results

Qualifications

References

Kearney Foundation of Soil Science, *Background Concentrations of Trace and Major Elements in California Soils*, March 1996

Duverge, Dylan Jacques, Thesis submitted to San Francisco State University (SFSU): *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region*, December 2011

Tables

Table 1: Summary of Investigation Scope

Borehole Identification	Location	Terminal Depth (feet bgs)	Matrix Sampled	Sampling Depths* (feet bgs)	Target Contaminants
PES-B1	Southwestern Portion of Parking Lot / Former Foundry	20**	Soil	3, 7, 13, 19	Metals
			Groundwater	***17.5***	TPH-cc, VOCs
PES-B2	Northern Portion of Parking Lot / Former Foundry	19**	Soil	***3***, 7[1,2], 12[1,2], 18[1,2]	TPH-cc, VOCs, Metals
			Groundwater	18.8[1]	TPH-cc, VOCs
PES-B3	Southern Portion of Parking Lot / Former Foundry	20**	Soil	***3***, 8, 13, 17	TPH-cc, VOCs, Metals
			Groundwater	18.4	NA
PES-B4	Northwestern Portion of Parking Lot / Former Foundry Machine Shop	20**	Soil	3, 7, ***11***, 13	TPH-cc, VOCs, Metals
			Groundwater	19.5	NA
PES-B5	Southwestern Interior of Subject Property Warehouse/ Former Machine Shop	18.2***	Soil	3, ***7***, 11, 15	TPH-cc, VOCs, Metals

Notes:

*Depths in **bold** analyzed for carbon chain total petroleum hydrocarbons (TPH-cc) in accordance with Environmental Protection Agency (EPA) Method 8015M. Depths in *italics* analyzed for volatile organic compounds (VOCs) in accordance with EPA Method 8260B. Underlined depths analyzed for California Administrative Manual (CAM) 17 Metals in accordance with EPA Method 6010B/7471A. [1]Sample analyzed for total petroleum hydrocarbons - diesel-range organics/oil-range organics (TPH-DRO/ORO) in accordance with EPA Method 8015M, napthalene in accordance with EPA Method 8260B. [2]Sample analyzed for lead and copper in accordance with EPA Method 6010.

**Boring Terminated at the terminal depth after groundwater was encountered

***Refusal encountered at the terminal depth

bgs = below ground surface

NA = not analyzed

Table 2: Soil Sample TPH-cc Laboratory Results

EPA Method	TPH-cc via 8015M		
Units	(mg/kg)		
Sample Identification	**TPH-g**	**TPH-d**	**TPH-o**
PES-B2-3	46	<u>1200</u>	*950*
PES-B2-7	NA	<u>1600</u>	*860*
PES-B2-12	NA	< 10	< 10
PES-B2-18	NA	< 10	< 10
PES-B3-3	< 10	< 10	< 10
PES-B4-11	< 10	< 10	< 10
PES-B5-7	< 10	< 10	< 10
Residential ESLs	100	100	500
Industrial ESLs	420	500	2,500

Notes:

TPH-cc = carbon chain total petroleum hydrocarbons

EPA = Environmental Protection Agency

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-o = total petroleum hydrocarbons as oil

mg/kg = milligrams per kilogram

< = not detected above indicated laboratory Method Detection Limit (MDL)

ESLs = Environmental Screening Levels (EPA Region 9 - 2013)

Italicized values exceed residential ESLs

<u>Underlined</u> values exceed both residential and industrial ESLs

NA = not applicable

Table 3: Soil Sample VOCs Laboratory Results

EPA Method	VOCs via 8260B				
Units	(µg/kg)				
Sample Identification	n-Butylbenzene	sec-Butylbenzene	Napthalene	n-Propylbenzene	Other VOCs
PES-B2-3	19	5.4	5300	7.6	ND
PES-B2-7	NA	NA	ND	NA	NA
PES-B2-12	NA	NA	ND	NA	NA
PES-B2-18	NA	NA	ND	NA	NA
PES-B3-3	ND	ND	ND	ND	ND
PES-B4-11	ND	ND	ND	ND	ND
PES-B5-7	ND	ND	ND	ND	ND
Residential Soil ESL	540	540	1,700	540	--
Industrial Soil ESL	1,200	1,200	4,800	1,200	--

Notes:

VOCs = volatile organic compounds

EPA = Environmental Protection Agency

µg/kg = micrograms per kilogram

ND = not detected above laboratory Method Detection Limit (MDL)

ESLs = Environmental Screening Levels

NA = not applicable

Underlined values exceed both residential and industrial ESLs

Table 4: Soil Sample CAM 17 Metals Laboratory Results (mg/kg)

Element	PES-B1-3	PES-B2-3	PES-B2-7	PES-B2-12	PES-B2-18	PES-B3-3	PES-B4-3	PES-B5-3	Background Concentrations*	Residential ESL	Commercial/ Industrial ESL
Antimony (Sb)	< 3.0	< 3.0	NA	NA	NA	< 3.0	< 3.0	< 3.0	0.21 - 0.99	20	40
Arsenic (As)	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	11**	.39	40
Barium (Ba)	180	160	NA	NA	NA	160	68	170	299 - 719	750	1500
Beryllium (Be)	< 1.0	< 1.0	NA	NA	NA	< 1.0	< 1.0	< 1.0	0.76 - 1.8	4	8
Cadmium (Cd)	< 2.0	2.8	NA	NA	NA	< 2.0	< 2.0	< 2.0	0.05 - 0.67	12	12
Chromium (Cr)	20	20	NA	NA	NA	21	16	23	0 - 345	8	8
Cobalt (Co)	9.1	8.9	NA	NA	NA	7.7	7.5	9.0	5.7 - 24.1	.33	1.6
Copper (Cu)	**160**	**1200**	15	11	17	17	11	18	9.4 - 48	230	230
Lead (Pb)	**43**	**140**	< 3.0	8.3	< 3.0	< 3.0	< 3.0	**44**	10.1 - 37.7	80	320
Mercury (Hg)	< 0.10	< 0.10	NA	NA	NA	< 0.10	< 0.10	< 0.10	0.05 - 0.47	40	40
Molybdenum (Mo)	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	0 - 2.8	150	150
Nickel (Ni)	24	26	NA	NA	NA	33	17	25	0 - 137	10	10
Selenium (Se)	< 5.0	< 5.0	NA	NA	NA	< 5.0	< 5.0	< 5.0	0 - 0.142	20	40
Silver (Ag)	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	0 - 2.23	.78	10
Thallium (Tl)	< 2.0	< 2.0	NA	NA	NA	< 2.0	< 2.0	< 2.0	0.37 - 0.75	200	200
Vanadium (V)	28	30	NA	NA	NA	26	17	31	59 - 165	600	600
Zinc (Zn)	140	**530**	NA	NA	NA	25	14	29	117 - 181	6.7	10

Notes:

*From Kearney Foundation of Soil Science March 1996 report *Background Concentrations of Trace and Major Elements in California Soils.* Background concentrations of metals are considered to be within one standard deviation from the mean metal concentrations determined by the study. Concentrations indicated in milligrams per kilogram (mg/kg).

**From a thesis submitted to the Faculty of San Francisco State University and the San Francisco Bay RWQCB December 2011 report *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region* .

CAM = California Administrative Manual
mg/kg = milligrams per kilogram
< = not detected above indicated laboratory Method Detection Limit (MDL)
NA = Not Applicable

Table 5: Groundwater Sample TPH-cc Laboratory Results

EPA Method	TPH-cc via 8015C		
Units	(mg/L)		
Sample Identification	TPH-g	TPH-d	TPH-o
PES-B1-GW	< 0.50	< 0.50	< 0.50
PES-B2-GW	NA	< 0.50	< 0.50
Groundwater ESL	0.5	0.64	0.64

Notes:

TPH-cc = carbon chain total petroleum hydrocarbons

EPA = Environmental Protection Agency

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-o = total petroleum hydrocarbons as oil

mg/L = milligrams per liter

< = not detected above indicated laboratory Method Detection Limit (MDL)

NA = Not Applicable

Table 6: Groundwater Sample VOCs Laboratory Results

EPA Method	VOCs via 8260B						
Units	(µg/L)						
Sample Identification	Benzene	Toluene	Ethyl-benzene	Xylenes	Napthalene	Trichloro-ethene	Other VOCs
PES-B1-GW	ND	ND	ND	ND	NA	ND	ND
PES-B2-GW	NA	NA	NA	NA	ND	NA	NA
Groundwater ESL	27	130	43	100	63	130	NA

Notes:

VOCs = volatile organic compounds

EPA = Environmental Protection Agency

µg/L = micrograms per liter

< = not detected above indicated laboratory Method Detection Limit (MDL)

ND = not detected above laboratory PQLs

ESLs = Environmental Screening Levels (EPA Region 9 - 2013)

NA = not applicable

Table 7: Comparison of Metal Laboratory Results and STLC/TTLC (mg/kg)

Metal Exceeding Background*	PES-B2-3	10xSTLC	TTLC
Copper (Cu)	**1200**	250	2,500
Lead (Pb)	**140**	50	1,000
Zinc (Zn)	530	2,500	5,000

Notes:

*From Kearney Foundation of Soil Science March 1996 report *Background Concentrations of Trace and Major Elements in California Soils.*

mg/kg = milligrams per kilogram

STLC = Soluble Threshold Limit Concentration

TTLC = Total Threshold Limit Concentration

Table 8: Comparison of Metal Laboratory Results and STLCs (mg/L)

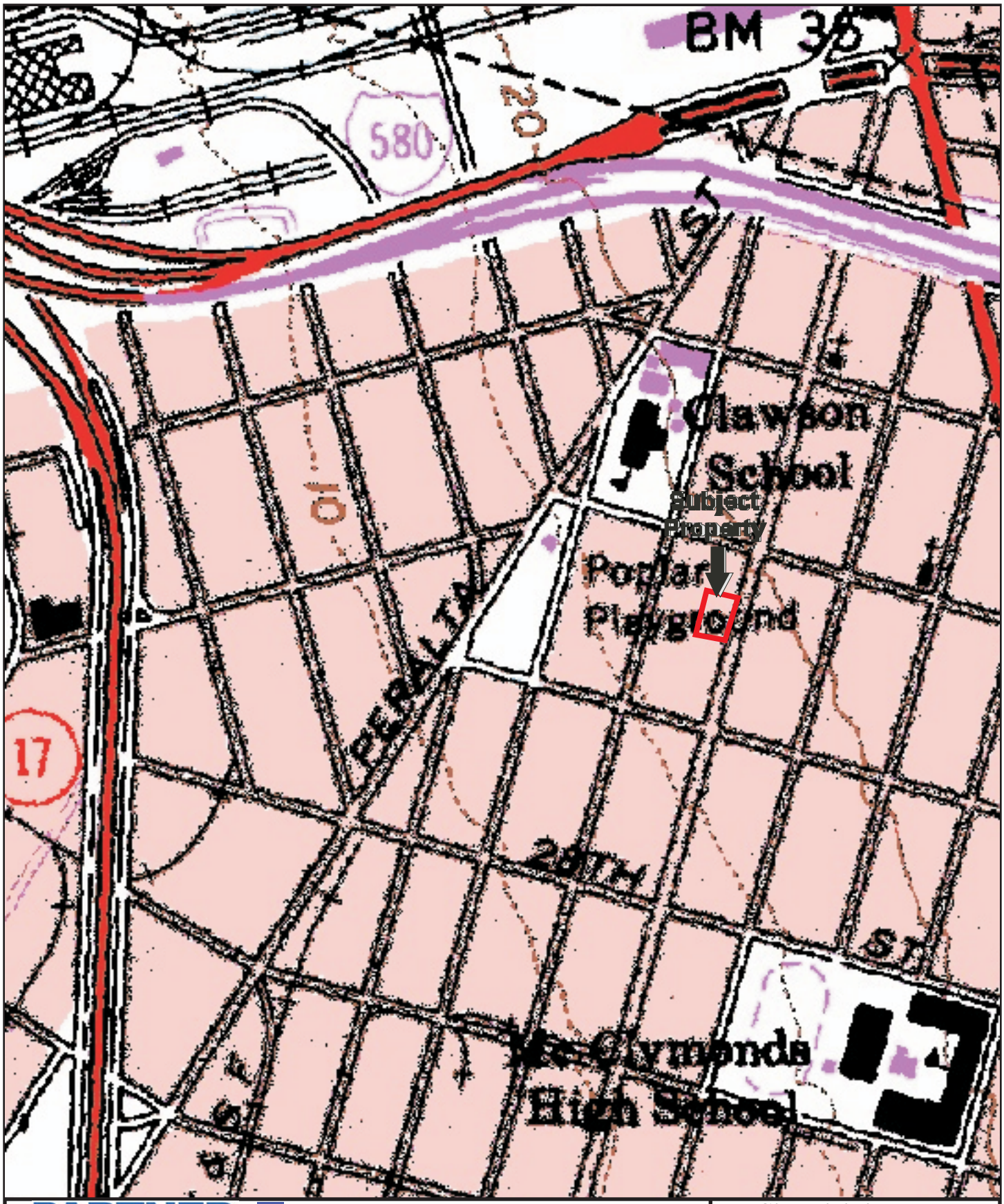
Element	PES-B2-3	STLC
Copper (Cu)	**81**	25
Lead (Pb)	**9.8**	5

Notes:

mg/L = milligrams per liter

STLC = Soluble Threshold Limit Concentration

Figures



PARTNER
Engineering and Science, Inc.
2154 Torrance Boulevard, Suite 200
Torrance, California 90501

Project Number: 13-99891.2

N

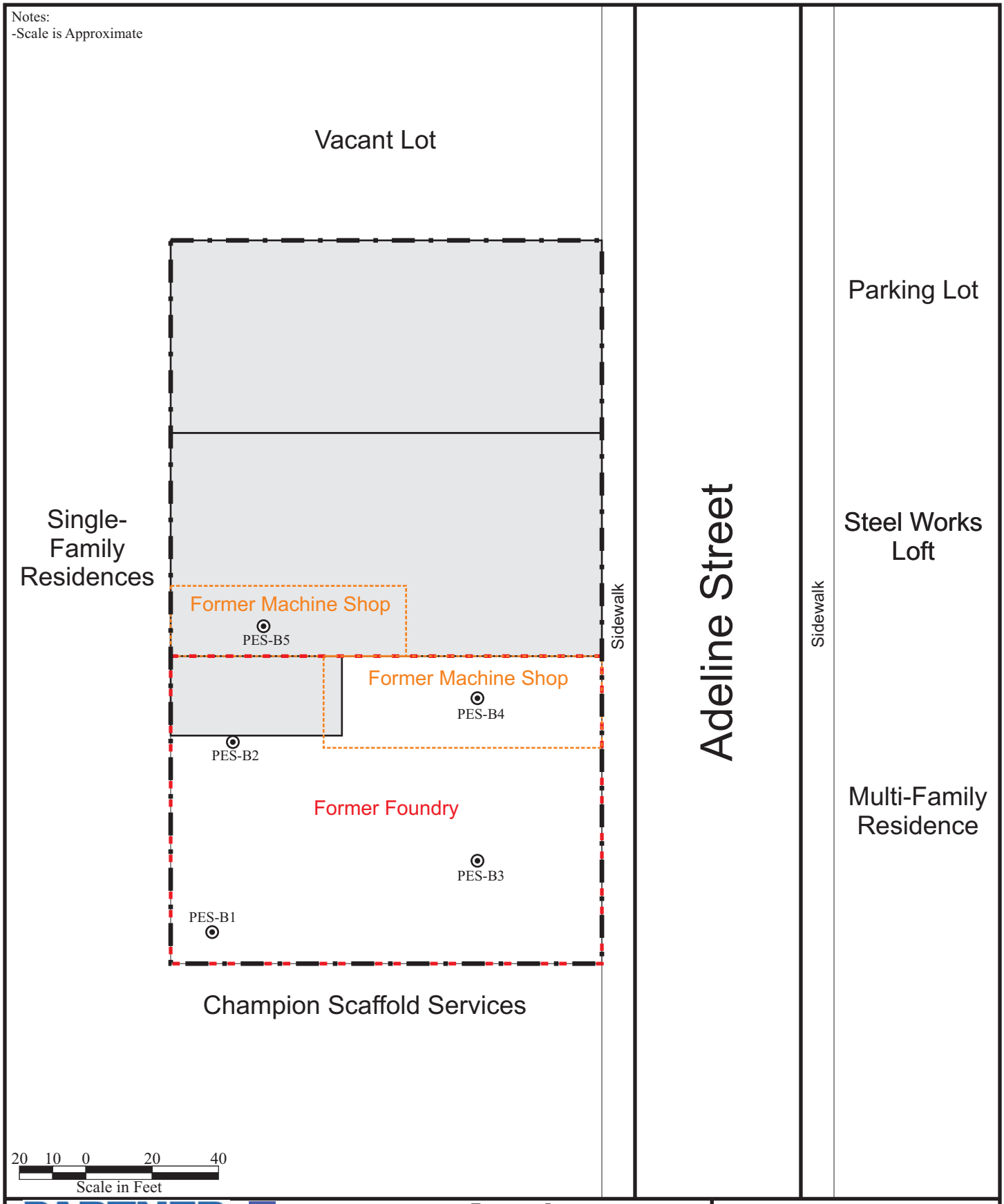
USGS Oakland West Quadrangle
Version: 1980

Site Vicinity Map

Figure	Prepared By	Date
1	E. French	May 2013

3037, 3101 & 3115 Adeline Street
Oakland, California 94608

Notes:
-Scale is Approximate



PARTNER
Engineering and Science, Inc.
2154 Torrance Boulevard, Suite 200
Torrance, California 90501

Project Number: 13-99891.2

Legend

Subject Site

Boring Location

Boring Locations

Figure	Prepared By	Date
2	T. Men	May 2013

3037, 3101 & 3115 Adeline St.
Oakland, California 94608

Appendix A:

Boring Logs

Boring Number:	PES-B1				Page 1 of 1
Location:	Former Foundry Location			Date Started:	5/1/2013
Site Address:	3101, 3037 & 3115 Adeline Street			Date Completed:	5/1/2013
	Oakland, California 94608			Depth to Groundwater:	17.5
Project Number:	13-99891.2			Field Technician:	ESF
Drill Rig Type:	Direct-Push GeoProbe			**Partner Engineering and Science**	
Sampling Equipment:	Acetate Liners			2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2"			Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1					Concrete at surface
2			CL	Approximately 95% CLAY, 5% sand, dark gray, medium stiff, damp.	
3	PES-B1-3	0.4			
4					
5					
6					
7	PES-B1-7	0.2			
8			CL	Approximately 95% CLAY, 5% sand, dark brown, medium stiff, damp.	
9					
10			ML	Approximately 85% SILT, 5% sand, light brown, medium stiff, damp, with trace gravel.	
11		0.1			
12					
13	PES-B1-13	0.1			
14			SM	SILTY SAND,light brown, with approximately 10% sub-rounded gravel, medium stiff, moist to wet.	Approximatey 2-inch sub-angular gravel layer at 14 feet bgs.
15					
16			CL	CLAY, with appoximately 10%, sub-angular, 5-10mm gravel and 5% to 8% sand. Clay is light to medium brown, medium stiff, moist.	
17	PES-B1-GW				▼ Groundwater encountered at 17.5 feet bgs.
18					
19	PES-B1-19	0.1	CH	CLAY, medium brown, wet, soft.	
20					
21					Boring terminated at 19 feet bgs. Borehole was backfilled with cement grout and capped to match surrounding cover upon conclusion of sampling.
22					
23					
24					
25					

Boring Number:	PES-B2				Page 1 of 1
Location:	Former Foundry Location			Date Started:	5/1/2013
Site Address:	3101, 3037 & 3115 Adeline Street			Date Completed:	5/1/2013
	Oakland, California 94608			Depth to Groundwater:	18.8
Project Number:	13-99891.2			Field Technician:	ESF
Drill Rig Type:	Direct-Push GeoProbe			**Partner Engineering and Science**	
Sampling Equipment:	Acetate Liners			2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2"			Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1					Concrete at surface
2		17.2	CL	Approximately 95% CLAY, 5% sand, dark gray, medium stiff, damp.	
3	PES-B2-3	101.6			
4					
5					
6					
7	PES-B2-7	57.3	CL	CLAY, medium brown, medium stiff, damp, trace gravel.	
8					
9		6.2			
10			CL	CLAY,approximately 8% sub-angular5mm-8mm gravel, dark to medium brown, stiff to very stiff.	
11					
12	PES-B2-12	3.2			
13					
14			CL	CLAY, approximately 10% sub-angular, 5mm -10mm gravel clasts. Clay is medium brown, stiff, moist.	
15					
16					
17					
18	PES-B2-18	0.0			▼ Groundwater encountered at 18.8 feet bgs
19					
20					Boring terminated at 19 feet bgs. Borehole was backfilled with cement grout and capped to match surrounding cover upon conclusion of sampling.
21					
22					
23					
24					
25					

Boring Number:	PES-B3			Page 1 of 1	
Location:	Former Foundry Location			Date Started:	5/1/2013
Site Address:	3101, 3037 & 3115 Adeline Street			Date Completed:	5/1/2013
	Oakland, California 94608			Depth to Groundwater:	18.4
Project Number:	13-99891.2			Field Technician:	ESF
Drill Rig Type:	Direct-Push GeoProbe			**Partner Engineering and Science**	
Sampling Equipment:	Acetate Liners			2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2"			Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1					Concrete at surface
2			CL	CLAY, dark gray, medium stiff to stiff, damp.	
3	PES-B1-3	0.0			
4					
5			CL	CLAY, medium brown, with approximately 20% sub-rounded to sub-angular 5mm-15mm gravel clasts, very stiff, damp.	
6					
7			SC	Approximately 75% SAND with 25% clay. Sand contains angular approximately 4mm grains, medium brown, very stiff, damp.	
8	PES-B3-8	0.0			
9					
10					
11					
12					
13	PES-B3-13	0.0			
14			CH	CLAY, medium brown, stiff to very stiff, sligtly moist to moist.	
15					
16					
17	PES-B3-17	0.0	CH	CLAY, medium brown, soft, moist.	
18					▼ Groundwater encountered at 18.4 feet bgs
19					
20					
21					Boring terminated at 20 feet bgs. Borehole was backfilled with concrete and capped to match surrounding cover upon conclusion of sampling.
22					
23					
24					
25					

Boring Number:	PES-B4			Page 1 of 1	
Location:	Former Foundry Machine Shop Location			Date Started:	5/1/2013
Site Address:	3101, 3037 & 3115 Adeline Street			Date Completed:	5/1/2013
	Oakland, California 94608			Depth to Groundwater:	19.55
Project Number:	13-99891.2			Field Technician:	ESF
Drill Rig Type:	Direct-Push GeoProbe			**Partner Engineering and Science**	
Sampling Equipment:	Acetate Liners			2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2"			Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1					Concrete at surface
2			CL	CLAY, dark gray, medium stiff, damp. Trace sand.	
3	PES-B4-3	13.2			
4					
5					
6			CL	CLAY, with approximately 5% sand, medium brown, very stiff, damp.	
7	PES-B4-7	5.3			
8					
9					
10					
11	PES-B4-11	16.8	ML	CLAY/ SILT with trace sand, medium brown, very stiff, damp.	
12					
13	PES-B4-13	3.1			
14					14' to 20' - soil wet to saturated
15					
16			CL	CLAY, approximately 10% sub-angular, 5mm -10mm gravel clasts. Clay is medium brown, stiff, saturated.	
17					
18			CH	CLAY, medium brown, soft, saturated, trace sand.	
19					▼ Groundwater encountered at 19.5 feet bgs
20					
21					Boring terminated at 20 feet bgs. Borehole was backfilled with cement grout and capped to match surrounding cover upon conclusion of sampling.
22					
23					
24					
25					

Boring Number:	PES-B5			Page 1 of 1	
Location:	Former Machine Shop Location			Date Started:	5/1/2013
Site Address:	3101, 3037 & 3115 Adeline Street			Date Completed:	5/1/2013
	Oakland, California 94608			Depth to Groundwater:	N/A
Project Number:	13-99891.2			Field Technician:	ESF
Drill Rig Type:	Direct-Push GeoProbe			**Partner Engineering and Science**	
Sampling Equipment:	Acetate Liners			2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2"			Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1					Concrete at surface
2			CL	CLAY, dark gray, firm, damp.	
3	PES-B5-3	0.9			
4					
5					
6			CL	CLAY, medium brown, approximately 5% sand and silt, very stiff, damp.	
7	PES-B5-7	2.9			
8					
9					
10					
11	PES-B5-11	1.7			
12					
13					
14					
15	PES-B5-15	2.5	CH	CLAY, medium brown, very stiff, damp to slightly moist.	
16					
17					
18					Encountered refusal at 18.2 feet bgs.
19					Boring terminated at 18.2 feet bgs. Borehole was backfilled with cement grout and capped to match surrounding cover upon conclusion of sampling.
20					
21					.
22					
23					
24					
25					

Appendix B:

ACPWA Permit

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 04/29/2013 By jamesy

Permit Numbers: W2013-0332
Permits Valid from 05/01/2013 to 05/01/2013

Application Id: 1366157249239 **City of Project Site:** Oakland
Site Location: 3101, 3037, 3115 Adeline St, Oakland, CA
Project Start Date: 05/01/2013 **Completion Date:** 05/01/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Partner ESI - Elizabeth French **Phone:** 415-534-0272
400 2nd St #415, San Francisco, CA 94107
Property Owner: Full Moon Partners -Keith Hembree **Phone:** 510-908-9197
3109 Adeline St, Oakland, CA 94608
Client: ** same as Property Owner **

Total Due: $265.00
Receipt Number: WR2013-0154 **Total Amount Paid:** $265.00
Payer Name : Elizabeth Sehn Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 5 Boreholes
Driller: EnProbe - Lic #: 777007 - Method: other **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-0332	04/29/2013	07/30/2013	5	2.00 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and

coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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

Appendix C:

Laboratory Reports

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

10 May 2013

Terri Men
Partner Engineering & Science, Inc.--San Francisc
400 Second St., Suite 415
San Francisco, CA 94107

RE: 3037-3115 Adeline Street, Oakland

Enclosed are the results of analyses for samples received by the laboratory on 05/03/13 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PES-B1-3	T131024-01	Soil	05/01/13 09:08	05/03/13 10:00
PES-B1-GW	T131024-05	Water	05/01/13 13:40	05/03/13 10:00
PES-B2-3	T131024-06	Soil	05/01/13 10:50	05/03/13 10:00
PES-B3-3	T131024-11	Soil	05/01/13 12:26	05/03/13 10:00
PES-B4-3	T131024-16	Soil	05/01/13 15:02	05/03/13 10:00
PES-B4-11	T131024-18	Soil	05/01/13 15:18	05/03/13 10:00
PES-B5-3	T131024-21	Soil	05/01/13 16:20	05/03/13 10:00
PES-B5-7	T131024-22	Soil	05/01/13 16:40	05/03/13 10:00

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B1-3

T131024-01 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	3050320	05/03/13	05/06/13	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**180**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**20**	2.0	"	"	"	"	"	"	
Cobalt	**9.1**	2.0	"	"	"	"	"	"	
Copper	**160**	1.0	"	"	"	"	"	"	
Lead	**43**	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**24**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**28**	5.0	"	"	"	"	"	"	
Zinc	**140**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	3050321	05/03/13	05/09/13	EPA 7471A Soil	

SunStar Laboratories, Inc.

Daniel J Chavez

Daniel Chavez, Project Manager

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

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B1-GW

T131024-05 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	0.50	mg/l	1	3050326	05/03/13	05/10/13	EPA 8015C	
C13-C28 (DRO)	ND	0.50	"	"	"	"	"	"	
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*87.0 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	1.0	ug/l	1	3050626	05/06/13	05/08/13	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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

Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B1-GW

T131024-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	1.0	ug/l	1	3050626	05/06/13	05/08/13	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B1-GW

T131024-05 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	ND	0.50	ug/l	1	3050626	05/06/13	05/08/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*108 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*88.8-117*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B2-3

T131024-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	**46**	10	mg/kg	1	3050319	05/03/13	05/10/13	EPA 8015C	
C13-C28 (DRO)	**1200**	10	"	"	"	"	"	"	
C29-C40 (MORO)	**950**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*109 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	3050320	05/03/13	05/06/13	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**160**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	**2.8**	2.0	"	"	"	"	"	"	
Chromium	**20**	2.0	"	"	"	"	"	"	
Cobalt	**8.9**	2.0	"	"	"	"	"	"	
Copper	**1200**	1.0	"	"	"	"	"	"	
Lead	**140**	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**26**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**30**	5.0	"	"	"	"	"	"	
Zinc	**530**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	3050321	05/03/13	05/09/13	EPA 7471A Soil	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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PES-B2-3

T131024-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	5.0	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	**19**	5.0	"	"	"	"	"	"	
sec-Butylbenzene	**5.4**	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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PES-B2-3

T131024-06 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,3-Dichloropropene	ND	5.0	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	**5300**	250	"	50	"	"	"	"	
n-Propylbenzene	**7.6**	5.0	"	1	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*95.7-135*		"	"	"	"	

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PES-B3-3

T131024-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	3050319	05/03/13	05/10/13	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*110 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	3050320	05/03/13	05/06/13	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**160**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	**21**	2.0	"	"	"	"	"	"	
Cobalt	**7.7**	2.0	"	"	"	"	"	"	
Copper	**17**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**33**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**26**	5.0	"	"	"	"	"	"	
Zinc	**25**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	3050321	05/03/13	05/09/13	EPA 7471A Soil	

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949.297.5020 Phone
949.297.5027 Fax

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PES-B3-3

T131024-11 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	4.3	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
Bromochloromethane	ND	4.3	"	"	"	"	"	"	
Bromodichloromethane	ND	4.3	"	"	"	"	"	"	
Bromoform	ND	4.3	"	"	"	"	"	"	
Bromomethane	ND	4.3	"	"	"	"	"	"	
n-Butylbenzene	ND	4.3	"	"	"	"	"	"	
sec-Butylbenzene	ND	4.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	4.3	"	"	"	"	"	"	
Carbon tetrachloride	ND	4.3	"	"	"	"	"	"	
Chlorobenzene	ND	4.3	"	"	"	"	"	"	
Chloroethane	ND	4.3	"	"	"	"	"	"	
Chloroform	ND	4.3	"	"	"	"	"	"	
Chloromethane	ND	4.3	"	"	"	"	"	"	
2-Chlorotoluene	ND	4.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	4.3	"	"	"	"	"	"	
Dibromochloromethane	ND	4.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	4.3	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.3	"	"	"	"	"	"	
Dibromomethane	ND	4.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	4.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	4.3	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	4.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	4.3	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B3-3

T131024-11 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	4.3	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.3	"	"	"	"	"	"	
Hexachlorobutadiene	ND	4.3	"	"	"	"	"	"	
Isopropylbenzene	ND	4.3	"	"	"	"	"	"	
p-Isopropyltoluene	ND	4.3	"	"	"	"	"	"	
Methylene chloride	ND	4.3	"	"	"	"	"	"	
Naphthalene	ND	4.3	"	"	"	"	"	"	
n-Propylbenzene	ND	4.3	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	4.3	"	"	"	"	"	"	
Tetrachloroethene	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	4.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	4.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	4.3	"	"	"	"	"	"	
Trichloroethene	ND	4.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	4.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	4.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	4.3	"	"	"	"	"	"	
Vinyl chloride	ND	4.3	"	"	"	"	"	"	
Benzene	ND	4.3	"	"	"	"	"	"	
Toluene	ND	4.3	"	"	"	"	"	"	
Ethylbenzene	ND	4.3	"	"	"	"	"	"	
m,p-Xylene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.3	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.5 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.1 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*95.7-135*		"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

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San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B3-3

T131024-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B4-3

T131024-16 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	3050320	05/03/13	05/06/13	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**68**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/06/13	"	
Cadmium	ND	2.0	"	"	"	"	05/06/13	"	
Chromium	**16**	2.0	"	"	"	"	"	"	
Cobalt	**7.5**	2.0	"	"	"	"	"	"	
Copper	**11**	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**17**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**17**	5.0	"	"	"	"	"	"	
Zinc	**14**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	3050321	05/03/13	05/09/13	EPA 7471A Soil	

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949.297.5020 Phone
949.297.5027 Fax

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San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B4-11

T131024-18 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	3050319	05/03/13	05/10/13	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*107 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.0	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

PES-B4-11

T131024-18 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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PES-B4-11

T131024-18 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	5.0	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Toluene-d8		*86.4 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.1 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*	*95.7-135*		"	"	"	"	

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949.297.5020 Phone
949.297.5027 Fax

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T131024-21 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals by EPA 6010B									
Antimony	ND	3.0	mg/kg	1	3050320	05/03/13	05/06/13	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	**170**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	05/06/13	"	
Cadmium	ND	2.0	"	"	"	"	05/06/13	"	
Chromium	**23**	2.0	"	"	"	"	"	"	
Cobalt	**9.0**	2.0	"	"	"	"	"	"	
Copper	**18**	1.0	"	"	"	"	"	"	
Lead	**44**	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	**25**	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	**31**	5.0	"	"	"	"	"	"	
Zinc	**29**	1.0	"	"	"	"	"	"	
Cold Vapor Extraction EPA 7470/7471									
Mercury	ND	0.10	mg/kg	1	3050321	05/03/13	05/09/13	EPA 7471A Soil	

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949.297.5027 Fax

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PES-B5-7

T131024-22 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C6-C12 (GRO)	ND	10	mg/kg	1	3050319	05/03/13	05/10/13	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*107 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	3.8	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
Bromochloromethane	ND	3.8	"	"	"	"	"	"	
Bromodichloromethane	ND	3.8	"	"	"	"	"	"	
Bromoform	ND	3.8	"	"	"	"	"	"	
Bromomethane	ND	3.8	"	"	"	"	"	"	
n-Butylbenzene	ND	3.8	"	"	"	"	"	"	
sec-Butylbenzene	ND	3.8	"	"	"	"	"	"	
tert-Butylbenzene	ND	3.8	"	"	"	"	"	"	
Carbon tetrachloride	ND	3.8	"	"	"	"	"	"	
Chlorobenzene	ND	3.8	"	"	"	"	"	"	
Chloroethane	ND	3.8	"	"	"	"	"	"	
Chloroform	ND	3.8	"	"	"	"	"	"	
Chloromethane	ND	3.8	"	"	"	"	"	"	
2-Chlorotoluene	ND	3.8	"	"	"	"	"	"	
4-Chlorotoluene	ND	3.8	"	"	"	"	"	"	
Dibromochloromethane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	3.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	3.8	"	"	"	"	"	"	
Dibromomethane	ND	3.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	3.8	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	3.8	"	"	"	"	"	"	
1,1-Dichloroethane	ND	3.8	"	"	"	"	"	"	
1,2-Dichloroethane	ND	3.8	"	"	"	"	"	"	
1,1-Dichloroethene	ND	3.8	"	"	"	"	"	"	

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949.297.5027 Fax

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T131024-22 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	3.8	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
trans-1,2-Dichloroethene	ND	3.8	"	"	"	"	"	"	
1,2-Dichloropropane	ND	3.8	"	"	"	"	"	"	
1,3-Dichloropropane	ND	3.8	"	"	"	"	"	"	
2,2-Dichloropropane	ND	3.8	"	"	"	"	"	"	
1,1-Dichloropropene	ND	3.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	3.8	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	3.8	"	"	"	"	"	"	
Hexachlorobutadiene	ND	3.8	"	"	"	"	"	"	
Isopropylbenzene	ND	3.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	3.8	"	"	"	"	"	"	
Methylene chloride	ND	3.8	"	"	"	"	"	"	
Naphthalene	ND	3.8	"	"	"	"	"	"	
n-Propylbenzene	ND	3.8	"	"	"	"	"	"	
Styrene	ND	3.8	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	3.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	3.8	"	"	"	"	"	"	
Tetrachloroethene	ND	3.8	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	3.8	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	3.8	"	"	"	"	"	"	
Trichloroethene	ND	3.8	"	"	"	"	"	"	
Trichlorofluoromethane	ND	3.8	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	3.8	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	3.8	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	3.8	"	"	"	"	"	"	
Vinyl chloride	ND	3.8	"	"	"	"	"	"	
Benzene	ND	3.8	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	3.8	"	"	"	"	"	"	

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T131024-22 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
m,p-Xylene	ND	3.8	ug/kg	1	3050327	05/03/13	05/04/13	EPA 8260B/5035	
o-Xylene	ND	3.8	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.9 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.9 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*121 %*	*95.7-135*		"	"	"	"	

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050319 - EPA 3550B GC										
Blank (3050319-BLK1)				Prepared: 05/03/13 Analyzed: 05/10/13						
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*112*		*"*	*100*		*112*	*65-135*			
LCS (3050319-BS1)				Prepared: 05/03/13 Analyzed: 05/10/13						
C13-C28 (DRO)	490	10	mg/kg	500		97.8	75-125			
Surrogate: p-Terphenyl	*114*		*"*	*100*		*114*	*65-135*			
Matrix Spike (3050319-MS1)	**Source: T131024-06**			Prepared: 05/03/13 Analyzed: 05/10/13						
C13-C28 (DRO)	1800	10	mg/kg	500	1200	118	75-125			
Surrogate: p-Terphenyl	*118*		*"*	*100*		*118*	*65-135*			
Matrix Spike Dup (3050319-MSD1)	**Source: T131024-06**			Prepared: 05/03/13 Analyzed: 05/10/13						
C13-C28 (DRO)	1800	10	mg/kg	500	1200	120	75-125	0.817	20	
Surrogate: p-Terphenyl	*119*		*"*	*100*		*119*	*65-135*			
Batch 3050326 - EPA 3510C GC										
Blank (3050326-BLK1)				Prepared: 05/03/13 Analyzed: 05/10/13						
C6-C12 (GRO)	ND	0.50	mg/l							
C13-C28 (DRO)	ND	0.50	"							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: p-Terphenyl	*2.98*		*"*	*4.00*		*74.4*	*65-135*			
LCS (3050326-BS1)				Prepared: 05/03/13 Analyzed: 05/10/13						
C13-C28 (DRO)	19.7	0.50	mg/l	20.0		98.5	75-125			
Surrogate: p-Terphenyl	*3.00*		*"*	*4.00*		*74.9*	*65-135*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050326 - EPA 3510C GC										
Matrix Spike (3050326-MS1)	**Source: T131024-05**			Prepared: 05/03/13	Analyzed: 05/10/13					
C13-C28 (DRO)	19.5	0.50	mg/l	20.0	ND	97.6	75-125			
Surrogate: p-Terphenyl	*2.62*		*"*	*4.00*		*65.5*	*65-135*			
Matrix Spike Dup (3050326-MSD1)	**Source: T131024-05**			Prepared: 05/03/13	Analyzed: 05/10/13					
C13-C28 (DRO)	19.9	0.50	mg/l	20.0	ND	99.6	75-125	2.07	20	
Surrogate: p-Terphenyl	*2.88*		*"*	*4.00*		*72.1*	*65-135*			

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949.297.5020 Phone
949.297.5027 Fax

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050320 - EPA 3051										
Blank (3050320-BLK1)				Prepared: 05/03/13 Analyzed: 05/06/13						
Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							
LCS (3050320-BS1)				Prepared: 05/03/13 Analyzed: 05/06/13						
Arsenic	91.5	5.0	mg/kg	100		91.5	75-125			
Barium	94.8	1.0	"	100		94.8	75-125			
Cadmium	93.2	2.0	"	100		93.2	75-125			
Chromium	94.5	2.0	"	100		94.5	75-125			
Lead	97.8	3.0	"	100		97.8	75-125			
Matrix Spike (3050320-MS1)	**Source: T131024-01**			Prepared: 05/03/13 Analyzed: 05/06/13						
Arsenic	79.3	5.0	mg/kg	100	1.42	77.9	75-125			
Barium	260	1.0	"	100	183	77.5	75-125			
Cadmium	82.7	2.0	"	100	ND	82.7	75-125			
Chromium	108	2.0	"	100	20.1	88.3	75-125			
Lead	176	3.0	"	100	43.3	133	75-125			QM-05

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Daniel Chavez, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050320 - EPA 3051										
Matrix Spike Dup (3050320-MSD1)	**Source: T131024-01**			Prepared: 05/03/13	Analyzed: 05/06/13					
Arsenic	87.9	5.0	mg/kg	100	1.42	86.5	75-125	10.3	20	
Barium	268	1.0	"	100	183	85.0	75-125	2.83	20	
Cadmium	89.1	2.0	"	100	ND	89.1	75-125	7.38	20	
Chromium	115	2.0	"	100	20.1	95.4	75-125	6.39	20	
Lead	184	3.0	"	100	43.3	141	75-125	4.28	20	QM-05

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Cold Vapor Extraction EPA 7470/7471 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050321 - EPA 7471A Soil										
Blank (3050321-BLK1)				Prepared: 05/03/13 Analyzed: 05/09/13						
Mercury	ND	0.10	mg/kg							
LCS (3050321-BS1)				Prepared: 05/03/13 Analyzed: 05/09/13						
Mercury	0.448	0.10	mg/kg	0.417		107	80-120			
Matrix Spike (3050321-MS1)		**Source: T131024-01**		Prepared: 05/03/13 Analyzed: 05/09/13						
Mercury	0.454	0.10	mg/kg	0.417	0.0362	100	75-125			
Matrix Spike Dup (3050321-MSD1)		**Source: T131024-01**		Prepared: 05/03/13 Analyzed: 05/09/13						
Mercury	0.589	0.10	mg/kg	0.417	0.0362	133	75-125	25.9	20	QM-07

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050327 - EPA 5030 GCMS										
Blank (3050327-BLK1)				Prepared: 05/03/13 Analyzed: 05/04/13						
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050327 - EPA 5030 GCMS										
Blank (3050327-BLK1)				Prepared: 05/03/13 Analyzed: 05/04/13						
p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Surrogate: Toluene-d8	*39.0*		*"*	*40.0*		*97.4*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*42.4*		*"*	*40.0*		*106*	*81.2-123*			
Surrogate: Dibromofluoromethane	*45.0*		*"*	*40.0*		*113*	*95.7-135*			
LCS (3050327-BS1)				Prepared: 05/03/13 Analyzed: 05/07/13						
Chlorobenzene	98.2	5.0	ug/kg	100		98.2	75-125			
1,1-Dichloroethene	104	5.0	"	100		104	75-125			
Trichloroethene	116	5.0	"	100		116	75-125			
Benzene	105	5.0	"	100		105	75-125			
Toluene	96.7	5.0	"	100		96.7	75-125			
Surrogate: Toluene-d8	*39.6*		*"*	*40.0*		*99.0*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*42.6*		*"*	*40.0*		*106*	*81.2-123*			
Surrogate: Dibromofluoromethane	*47.9*		*"*	*40.0*		*120*	*95.7-135*			

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

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050327 - EPA 5030 GCMS										
LCS Dup (3050327-BSD1)				Prepared: 05/03/13 Analyzed: 05/07/13						
Chlorobenzene	111	5.0	ug/kg	100		111	75-125	12.5	20	
1,1-Dichloroethene	124	5.0	"	100		124	75-125	17.4	20	
Trichloroethene	120	5.0	"	100		120	75-125	2.76	20	
Benzene	119	5.0	"	100		119	75-125	12.1	20	
Toluene	111	5.0	"	100		111	75-125	13.5	20	
Surrogate: Toluene-d8	*38.9*		*"*	*40.0*		*97.2*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*40.6*		*"*	*40.0*		*101*	*81.2-123*			
Surrogate: Dibromofluoromethane	*45.7*		*"*	*40.0*		*114*	*95.7-135*			
Batch 3050626 - EPA 5030 GCMS										
Blank (3050626-BLK1)				Prepared: 05/06/13 Analyzed: 05/08/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050626 - EPA 5030 GCMS										
Blank (3050626-BLK1)				Prepared: 05/06/13 Analyzed: 05/08/13						
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Methyl tert-butyl ether	ND	1.0	"							

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3050626 - EPA 5030 GCMS										
Blank (3050626-BLK1)				Prepared: 05/06/13 Analyzed: 05/08/13						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	*8.78*		"	*8.00*		*110*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.62*		"	*8.00*		*108*	*81-136*			
Surrogate: Toluene-d8	*8.20*		"	*8.00*		*102*	*88.8-117*			
LCS (3050626-BS1)				Prepared: 05/06/13 Analyzed: 05/09/13						
Chlorobenzene	16.3	1.0	ug/l	20.0		81.7	75-125			
1,1-Dichloroethene	16.2	1.0	"	20.0		80.8	75-125			
Trichloroethene	18.1	1.0	"	20.0		90.6	75-125			
Benzene	16.6	0.50	"	20.0		83.0	75-125			
Toluene	16.5	0.50	"	20.0		82.4	75-125			
Surrogate: 4-Bromofluorobenzene	*8.79*		"	*8.00*		*110*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.24*		"	*8.00*		*116*	*81-136*			
Surrogate: Toluene-d8	*8.10*		"	*8.00*		*101*	*88.8-117*			
Matrix Spike (3050626-MS1)		**Source: T131025-19**		Prepared: 05/06/13 Analyzed: 05/09/13						
Chlorobenzene	17.3	1.0	ug/l	20.0	ND	86.7	75-125			
1,1-Dichloroethene	17.9	1.0	"	20.0	ND	89.4	75-125			
Trichloroethene	19.5	1.0	"	20.0	0.520	94.8	75-125			
Benzene	17.7	0.50	"	20.0	ND	88.6	75-125			
Toluene	17.8	0.50	"	20.0	ND	89.0	75-125			
Surrogate: 4-Bromofluorobenzene	*8.36*		"	*8.00*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.22*		"	*8.00*		*115*	*81-136*			
Surrogate: Toluene-d8	*7.99*		"	*8.00*		*99.9*	*88.8-117*			
Matrix Spike Dup (3050626-MSD1)		**Source: T131025-19**		Prepared: 05/06/13 Analyzed: 05/09/13						
Chlorobenzene	15.5	1.0	ug/l	20.0	ND	77.4	75-125	11.3	20	
1,1-Dichloroethene	15.6	1.0	"	20.0	ND	78.1	75-125	13.5	20	
Trichloroethene	16.9	1.0	"	20.0	0.520	82.0	75-125	14.1	20	
Benzene	16.5	0.50	"	20.0	ND	82.6	75-125	7.01	20	
Toluene	15.7	0.50	"	20.0	ND	78.5	75-125	12.5	20	
Surrogate: 4-Bromofluorobenzene	*8.53*		"	*8.00*		*107*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.24*		"	*8.00*		*116*	*81-136*			
Surrogate: Toluene-d8	*8.03*		"	*8.00*		*100*	*88.8-117*			

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/10/13 12:26

Notes and Definitions

QM-07	The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
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.

Daniel J Chavez

Daniel Chavez, Project Manager

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

Chain of Custody Record

Client: Partner Engineering + Science, Inc
Address: 400 2nd Street, Suite 415 S.F CA
Phone: (415) 534-0272 Fax: 415-889-0020
Project Manager: Terri Men

Date: 5-1-13 Page: 1 Of 2
Project Name: 3037-3115 Adeline Street, Oakland
Collector: E.S. French Client Project #: 13-99891.2
Batch #: T131024 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
PES-B1-3	5-1-13	0908	SOIL	VOAs/JAR														01		4
PES-B1-7		0932																02		4
PES-B1-13		0953																03		4
PES-B1-19		1019																04		4
PES-B1-GW		1340	WATER	VOAs														05		6
PES-B2-3		1050	SOIL	VOAs/JAR														06		4
PES-B2-7		1111																07		4
PES-B2-12		1122																08		4
PES-B2-18		1150																09		4
PES-B2-GW		1435	WATER	VOAs														10		6
PES-B3-3		1226	SOIL	VOAs/JAR														11	STD. TAT	4
PES-B3-8		1252																12		4
PES-B3-13		1304																13	5.3.13 SR	4
PES-B3-17		1318																14		4
PES-B3-GW		1400	WATER	VOAs														15		6

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Fred	5-2-13 1120		5-2-13 1120
GSO	5.3.13 10:00		5.3.13 10:00

Total # of containers: 8
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold: 1.8

Turn around time:

Notes: Please HOLD for analysis until further notified

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

COC 130422

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

Chain of Custody Record

Client: Partner Engineering + Science
Address: S.F.
Phone: 415-534-0272 Fax:
Project Manager: Terri Men

Date: 5-1-13 Page: 2 Of 2
Project Name: 3037-3115 Adeline Street, Oakland
Collector: E.S. French Client Project #: 13-99891.2
Batch #: 7131024 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
PES-B4-3	5-1-13	1502	SOIL	VOA/JAR														16		4
PES-B4-7		1513																17		4
PES-B4-11		1518																18		4
PES-B4-13		1525																19		4
PES-B4-GW		1735	WATER	VOAs														20		6
PES-B5-3		1620	SOIL	VOAs/JAR														21		4
PES-B5-7		1640																22		4
PES-B5-11		1650																23		4
PES-B5-15		1700																24	STD. TAT	4

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5-2-13/1120	[signature]	5-2-13
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
GSO	5-3-13 10:00	[signature]	5-3-13 10:00
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

LC Total # of containers 8
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 1.8

Turn around time:

Notes
Please HOLD for analysis until further notified

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

COC 130423

SunStar Laboratories, Inc.
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SAMPLE RECEIVING REVIEW SHEET

BATCH # T131024

Client Name: Partner Eng - S.F. Project: 3037-3115 Adeline Street, Oakland

Received by: Sunny Date/Time Received: 5.3.13 / 10:00

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

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

Temperature: cooler #1 2.0 °C +/- the CF (- 0.2°C) = 1.8 °C corrected temperature

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

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

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

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

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 5.3.13

Comments:

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

22 May 2013

Terri Men
Partner Engineering & Science, Inc.--San Francisc
400 Second St., Suite 415
San Francisco, CA 94107

RE: 3037-3115 Adeline Street, Oakland

Enclosed are the results of analyses for samples received by the laboratory on 05/03/13 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PES-B2-3	T131024-06	Soil	05/01/13 10:50	05/03/13 10:00
PES-B2-7	T131024-07	Soil	05/01/13 11:11	05/03/13 10:00
PES-B2-12	T131024-08	Soil	05/01/13 11:22	05/03/13 10:00
PES-B2-18	T131024-09	Soil	05/01/13 11:50	05/03/13 10:00
PES-B2-GW	T131024-10	Water	05/01/13 14:35	05/03/13 10:00

SunStar Laboratories, Inc.

Daniel J Chavez

Daniel Chavez, Project Manager

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949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

PES-B2-3

T131024-06 (Soil)

SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Copper	**81**	0.10	mg/l	1	3052020	05/20/13	05/22/13	STLC EPA 6010	
Lead	**9.8**	0.10	"	"	"	"	"	"	

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Daniel Chavez, Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

PES-B2-7

T131024-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
Extractable Petroleum Hydrocarbons by 8015C									**O-05**
C13-C28 (DRO)	**1600**	10	mg/kg	1	3051628	05/15/13	05/19/13	EPA 8015C	
C29-C40 (MORO)	**860**	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*130 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Copper	**15**	1.0	mg/kg	1	3051509	05/15/13	05/15/13	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.7	ug/kg	1	3051634	05/03/13	05/17/13	EPA 8260B/5035	
Surrogate: Toluene-d8		*86.3 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.3 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*123 %*	*95.7-135*		"	"	"	"	

SunStar Laboratories, Inc.

Daniel J Chavez

Daniel Chavez, Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

PES-B2-12

T131024-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									**O-05**
C13-C28 (DRO)	ND	10	mg/kg	1	3051628	05/15/13	05/19/13	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*100 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Copper	**11**	1.0	mg/kg	1	3051509	05/15/13	05/15/13	EPA 6010B	
Lead	**8.3**	3.0	"	"	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	5.7	ug/kg	1	3051634	05/03/13	05/17/13	EPA 8260B/5035	
Surrogate: Toluene-d8		*90.1 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*135 %*	*95.7-135*		"	"	"	"	

SunStar Laboratories, Inc.

Daniel J Chávez

Daniel Chavez, Project Manager

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949.297.5020 Phone
949.297.5027 Fax

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

PES-B2-18

T131024-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									**O-05**
C13-C28 (DRO)	ND	10	mg/kg	1	3051628	05/15/13	05/19/13	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*116 %*	*65-135*		"	"	"	"	
Metals by EPA 6010B									
Copper	**17**	1.0	mg/kg	1	3051509	05/15/13	05/15/13	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	4.4	ug/kg	1	3051634	05/03/13	05/17/13	EPA 8260B/5035	
Surrogate: Toluene-d8		*92.4 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.9 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*154 %*	*95.7-135*		"	"	"	"	*S-GC*

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949.297.5020 Phone
949.297.5027 Fax

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

PES-B2-GW

T131024-10 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	0.50	mg/l	1	3051519	05/15/13	05/18/13	EPA 8015C	O-05
C29-C40 (MORO)	ND	0.50	"	"	"	"	"	"	O-05
Surrogate: p-Terphenyl		*65.3 %*	*65-135*		"	"	"	"	*O-05*
Volatile Organic Compounds by EPA Method 8260B									
Naphthalene	ND	1.0	ug/l	1	3051635	05/02/13	05/03/13	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*81-136*		"	"	"	"	
Surrogate: Toluene-d8		*99.1 %*	*88.8-117*		"	"	"	"	

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949.297.5020 Phone
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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051519 - EPA 3510C GC										
Blank (3051519-BLK1)				Prepared: 05/15/13 Analyzed: 05/18/13						
C13-C28 (DRO)	ND	0.50	mg/l							
C29-C40 (MORO)	ND	0.50	"							
Surrogate: p-Terphenyl	*3.12*		"	*4.00*		*77.9*	*65-135*			
LCS (3051519-BS1)				Prepared: 05/15/13 Analyzed: 05/18/13						
C13-C28 (DRO)	18.3	0.50	mg/l	20.0		91.4	75-125			
Surrogate: p-Terphenyl	*3.21*		"	*4.00*		*80.2*	*65-135*			
Matrix Spike (3051519-MS1)	**Source: T131024-10**			Prepared: 05/15/13 Analyzed: 05/18/13						
C13-C28 (DRO)	18.8	0.50	mg/l	20.0	ND	93.8	75-125			
Surrogate: p-Terphenyl	*3.18*		"	*4.00*		*79.5*	*65-135*			
Matrix Spike Dup (3051519-MSD1)	**Source: T131024-10**			Prepared: 05/15/13 Analyzed: 05/18/13						
C13-C28 (DRO)	18.8	0.50	mg/l	20.0	ND	93.9	75-125	0.0731	20	
Surrogate: p-Terphenyl	*3.08*		"	*4.00*		*77.1*	*65-135*			
Batch 3051628 - EPA 3550B GC										
Blank (3051628-BLK1)				Prepared: 05/16/13 Analyzed: 05/19/13						
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*84.5*		"	*100*		*84.5*	*65-135*			
LCS (3051628-BS1)				Prepared: 05/16/13 Analyzed: 05/19/13						
C13-C28 (DRO)	500	10	mg/kg	500		99.5	75-125			
Surrogate: p-Terphenyl	*129*		"	*100*		*129*	*65-135*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051628 - EPA 3550B GC										
Matrix Spike (3051628-MS1)	**Source: T131126-01**			Prepared: 05/16/13	Analyzed: 05/19/13					
C13-C28 (DRO)	500	10	mg/kg	500	ND	100	75-125			
Surrogate: p-Terphenyl	*121*		*"*	*100*		*121*	*65-135*			
Matrix Spike Dup (3051628-MSD1)	**Source: T131126-01**			Prepared: 05/16/13	Analyzed: 05/19/13					
C13-C28 (DRO)	500	10	mg/kg	500	ND	100	75-125	0.227	20	
Surrogate: p-Terphenyl	*127*		*"*	*100*		*127*	*65-135*			

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051509 - EPA 3051										
Blank (3051509-BLK1)				Prepared & Analyzed: 05/15/13						
Copper	ND	1.0	mg/kg							
Lead	ND	3.0	"							
LCS (3051509-BS1)				Prepared & Analyzed: 05/15/13						
Lead	122	3.0	mg/kg	100		122	75-125			
LCS Dup (3051509-BSD1)				Prepared & Analyzed: 05/15/13						
Lead	105	3.0	mg/kg	100		105	75-125	14.3	20	

SunStar Laboratories, Inc.

Daniel J Chavez

Daniel Chavez, Project Manager

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949.297.5027 Fax

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400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3052020 - STLC Metals										
Blank (3052020-BLK1)				Prepared: 05/20/13 Analyzed: 05/22/13						
Lead	ND	0.10	mg/l							
LCS (3052020-BS1)				Prepared: 05/20/13 Analyzed: 05/22/13						
Lead	9.07	0.10	mg/l	10.0		90.7	75-125			
Matrix Spike (3052020-MS1)	**Source: T131024-06**			Prepared: 05/20/13 Analyzed: 05/22/13						
Lead	18.7	0.10	mg/l	10.0	9.79	89.2	75-125			
Matrix Spike Dup (3052020-MSD1)	**Source: T131024-06**			Prepared: 05/20/13 Analyzed: 05/22/13						
Lead	18.2	0.10	mg/l	10.0	9.79	84.2	75-125	2.75	30	

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Daniel J Chavez

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San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051634 - EPA 5035 GCMS										
Blank (3051634-BLK1)				Prepared: 05/03/13 Analyzed: 05/17/13						
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051634 - EPA 5035 GCMS										
Blank (3051634-BLK1)				Prepared: 05/03/13 Analyzed: 05/17/13						
p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Surrogate: Toluene-d8	*40.1*		*"*	*40.0*		*100*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*43.2*		*"*	*40.0*		*108*	*81.2-123*			
Surrogate: Dibromofluoromethane	*43.6*		*"*	*40.0*		*109*	*95.7-135*			
LCS (3051634-BS1)				Prepared: 05/03/13 Analyzed: 05/17/13						
Chlorobenzene	82.8	5.0	ug/kg	100		82.8	75-125			
1,1-Dichloroethene	81.6	5.0	"	100		81.6	75-125			
Trichloroethene	89.6	5.0	"	100		89.6	75-125			
Benzene	87.8	5.0	"	100		87.8	75-125			
Toluene	103	5.0	"	100		103	75-125			
Surrogate: Toluene-d8	*39.9*		*"*	*40.0*		*99.8*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*42.1*		*"*	*40.0*		*105*	*81.2-123*			
Surrogate: Dibromofluoromethane	*47.3*		*"*	*40.0*		*118*	*95.7-135*			

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051634 - EPA 5035 GCMS										
LCS Dup (3051634-BSD1)				Prepared: 05/03/13 Analyzed: 05/17/13						
Chlorobenzene	81.9	5.0	ug/kg	100		81.9	75-125	1.09	20	
1,1-Dichloroethene	80.7	5.0	"	100		80.7	75-125	1.11	20	
Trichloroethene	94.0	5.0	"	100		94.0	75-125	4.79	20	
Benzene	87.2	5.0	"	100		87.2	75-125	0.628	20	
Toluene	104	5.0	"	100		104	75-125	0.674	20	
Surrogate: Toluene-d8	*39.2*		*"*	*40.0*		*97.9*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*42.4*		*"*	*40.0*		*106*	*81.2-123*			
Surrogate: Dibromofluoromethane	*47.0*		*"*	*40.0*		*117*	*95.7-135*			
Batch 3051635 - EPA 5030 GCMS										
Blank (3051635-BLK1)				Prepared & Analyzed: 05/16/13						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							

SunStar Laboratories, Inc.

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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051635 - EPA 5030 GCMS										
Blank (3051635-BLK1)				Prepared & Analyzed: 05/16/13						
1,2-Dichloroethane	ND	0.50	ug/l							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							

SunStar Laboratories, Inc.

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3051635 - EPA 5030 GCMS										
Blank (3051635-BLK1)				Prepared & Analyzed: 05/16/13						
Surrogate: 4-Bromofluorobenzene	*8.73*		*ug/l*	*8.00*		*109*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.57*		*"*	*8.00*		*94.6*	*81-136*			
Surrogate: Toluene-d8	*7.92*		*"*	*8.00*		*99.0*	*88.8-117*			
LCS (3051635-BS1)				Prepared & Analyzed: 05/16/13						
Chlorobenzene	16.4	1.0	ug/l	20.0		82.2	75-125			
1,1-Dichloroethene	16.8	1.0	"	20.0		84.2	75-125			
Trichloroethene	17.6	1.0	"	20.0		88.1	75-125			
Benzene	17.2	0.50	"	20.0		86.2	75-125			
Toluene	18.7	0.50	"	20.0		93.6	75-125			
Surrogate: 4-Bromofluorobenzene	*7.91*		*"*	*8.00*		*98.9*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.77*		*"*	*8.00*		*110*	*81-136*			
Surrogate: Toluene-d8	*8.01*		*"*	*8.00*		*100*	*88.8-117*			
Matrix Spike (3051635-MS1)		**Source: T131119-01**		Prepared & Analyzed: 05/16/13						
Chlorobenzene	17.0	1.0	ug/l	20.0	ND	85.0	75-125			
1,1-Dichloroethene	26.0	1.0	"	20.0	7.96	90.0	75-125			
Trichloroethene	30.6	1.0	"	20.0	11.8	94.2	75-125			
Benzene	18.3	0.50	"	20.0	ND	91.6	75-125			
Toluene	20.1	0.50	"	20.0	0.820	96.4	75-125			
Surrogate: 4-Bromofluorobenzene	*7.75*		*"*	*8.00*		*96.9*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.50*		*"*	*8.00*		*106*	*81-136*			
Surrogate: Toluene-d8	*7.68*		*"*	*8.00*		*96.0*	*88.8-117*			
Matrix Spike Dup (3051635-MSD1)		**Source: T131119-01**		Prepared: 05/16/13 Analyzed: 05/17/13						
Chlorobenzene	16.9	1.0	ug/l	20.0	ND	84.4	75-125	0.708	20	
1,1-Dichloroethene	25.0	1.0	"	20.0	7.96	85.4	75-125	3.53	20	
Trichloroethene	30.3	1.0	"	20.0	11.8	92.5	75-125	1.12	20	
Benzene	18.1	0.50	"	20.0	ND	90.5	75-125	1.15	20	
Toluene	20.2	0.50	"	20.0	0.820	97.0	75-125	0.645	20	
Surrogate: 4-Bromofluorobenzene	*7.97*		*"*	*8.00*		*99.6*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.64*		*"*	*8.00*		*108*	*81-136*			
Surrogate: Toluene-d8	*8.16*		*"*	*8.00*		*102*	*88.8-117*			

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Daniel Chavez, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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

Partner Engineering & Science, Inc.--San Francisco	Project: 3037-3115 Adeline Street, Oakland	
400 Second St., Suite 415	Project Number: 13-99891.2	**Reported:**
San Francisco CA, 94107	Project Manager: Terri Men	05/22/13 17:09

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).
O-05	This sample was extracted outside of the EPA recommended holding time.
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.

Daniel J Chavez

Daniel Chavez, Project Manager

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

Chain of Custody Record

Client: Partner Engineering + Science, Inc
Address: 400 2nd Street, Suite 415 S.F CA
Phone: (415) 534-0272 Fax: 415-889-0020
Project Manager: Terri Men

Date: 5-1-13 Page: 1 Of 2
Project Name: 3037-3115 Adeline Street, Oakland
Collector: E.S. French Client Project #: 13-99891.2
Batch #: T131024 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
PES-B1-3	5-1-13	0908	SOIL	VOAs/JAR														01		4
PES-B1-7		0932																02		4
PES-B1-13		0953																03		4
PES-B1-19		1019																04		4
PES-B1-GW		1340	WATER	VOAs														05		6
PES-B2-3		1050	SOIL	VOAs/JAR														06		4
PES-B2-7		1111																07		4
PES-B2-12		1122																08		4
PES-B2-18		1150																09		4
PES-B2-GW		1435	WATER	VOAs														10		6
PES-B3-3		1226	SOIL	VOAs/JAR														11	STD. TAT	4
PES-B3-8		1252																12		4
PES-B3-13		1304																13	5.3.13 SR	4
PES-B3-17		1318																14		4
PES-B3-GW		1400	WATER	VOAs														15		6

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Fred	5-2-13 1120		5-2-13 1120
GSO	5.3.13 10:00		5.3.13 10:00

Total # of containers: 8
Chain of Custody seals Y/N/NA:
Seals intact? Y/N/NA:
Received good condition/cold: 1.8

Turn around time:

Notes: Please HOLD for analysis until further notified

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

COC 130422

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

Chain of Custody Record

Client: Partner Engineering + Science
Address: S.F.
Phone: 415-534-0272 Fax:
Project Manager: Terri Men

Date: 5-1-13 Page: 2 Of 2
Project Name: 3037-3115 Adeline Street, Oakland
Collector: E.S. French Client Project #: 13-99891.2
Batch #: 7131024 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
PES-B4-3	5-1-13	1502	SOIL	VOA/JAR														16		4
PES-B4-7		1513																17		4
PES-B4-11		1518																18		4
PES-B4-13		1525																19		4
PES-B4-GW		1735	WATER	VOAs														20		6
PES-B5-3		1620	SOIL	VOAs/JAR														21		4
PES-B5-7		1640																22		4
PES-B5-11		1650																23		4
PES-B5-15		1700																24	STD. TAT	4

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	5-2-13/1120	[signature]	5-2-13
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
GSO	5-3-13 10:00	[signature]	5-3-13 10:00
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

LC Total # of containers 8
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 1.8

Turn around time:

Notes
Please HOLD for analysis until further notified

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

COC 130423

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T131024

Client Name: Partner Eng - S.F. Project: 3037-3115 Adeline Street, Oakland

Received by: Sunny Date/Time Received: 5.3.13 / 10:00

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

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

Temperature: cooler #1 2.0 °C +/- the CF (- 0.2°C) = 1.8 °C corrected temperature

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

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

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

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

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 5.3.13

Comments:

Qualifications

Elizabeth French
Staff Professional II

Education
Bachelor of Science in Geology, California State University, Sacramento

Summary of Professional Experience
Ms. French has over 4 years of experience in the environmental and engineering service industries. She has significant experience in due diligence assessments for a variety of property types and the needs and requirements of varied number of reporting standards, including ASTM standards, EPA's All Appropriate Inquiry (AAI), and customized client formats. Specifically, Ms. French has performed Phase I Environmental Site Assessments, Environmental Transaction Screens, Phase II and III Subsurface and Site Characterization Investigations, Air Monitoring, Storm Water Monitoring and Remediation, Regulatory Compliance Assessments, and Human Health Risk Analysis.

Ms. French is familiar with all aspects of due diligence property assessments. She has completed hundreds of Phase I Environmental Assessments, Environmental Transaction Screens, and other related environmental assessments for sites including multi-family residences, offices, retail shopping centers, gas stations, auto repair facilities, hotels, agricultural land, and industrial/ manufacturing facilities.

Ms. French has also been involved with Brownfield initiatives for transfer, conversion and redevelopment of several open and closed industrial facilities in the state of California including the following:

- Ms. French completed air monitoring, soil and groundwater sampling, human health risk assessments, and geological modeling for the former 240-acre Sacramento Railyards which operated as an industrial workshop facility during the World War II era. Onsite operations consisted of a departure station, locomotive repairs and general maintenance. These operations lead to extensive soil and groundwater contamination and subsequent remediation which began in the 1980s and lasted until the early 2000s. The site was regulated by the Department of Toxic Substances Control (DTSC) and Regional Water Quality Control Board (RWQCB).

- Ms. French completed soil and groundwater investigations for the former 72-acre Curtis Park Railyard, regulated by the California Department of Toxic Substances Control (DTSC) in Sacramento, California. During the early 1900s, the Western Pacific Railroad established the railyard for steam locomotive and railcar maintenance. By the 1950s, diesel engine repair and maintenance was also conducted onsite. The railyard discontinued operations in the early 1980s with cleanup procedures beginning in 1986. Remediation included the excavation of over 358,000 yards of cubic soil. The clean-up projects enabled land use for the planned Curtis Park Village: an in-fill development project involving houses, apartments, shops and offices.

- Ms. French completed Job Safety Analysis (JSA) worksheets, material safety data sheet (MSDS) compilations, and regulatory compliance review and documentation for the McLaughlin Gold Mine located in Lower Lake, California. First discovered in 1978, the McLaughlin mine began production in 1983 from sulfide ore bodies. The McLaughlin deposit contains sulfides of iron, arsenic, silver, antimony and mercury. The mine has been acknowledged internationally including winning numerous awards for its innovative treatment of sulfide ores and sound environmental management practices.

Ms. French has technical experience working for a diverse group of clients including national and regional lenders, investors, equity stakeholders, and property owners, including:

- California Bank & Trust
- Wells Fargo Bank
- Bay Area Development Company
- United Commercial Bank
- East West Bank
- Citibank
- Mechanics Bank
- US Bank
- California Bank of Commerce
- Cathay Bank
- Bank of the West
- Fremont Bank

Finally, Ms. French's diversity across residential, industrial, regulatory, and commercial environments is a major contribution to Partner Engineering and Science's Associate team in the West region of the United States.

Terri Men

Environmental Scientist

Education

Bachelor of Science in Biology / Environmental Science Minor
University of California – Riverside

Registrations

EPA Accredited Asbestos Inspector
OSHA 40-hour HAZWOPER

Summary of Professional Experience

Ms. Men has over five years project experience in the environmental service industry conducting Phase I Environmental Site Assessments (ESAs), Environmental Transaction Screens, Phase II Subsurface Investigations, and Phase III Site Characterization Investigations, preparing Surface Water Quality Reports and assessing In-Situ Water Treatment Systems for Southern California lakes. Ms. Men is familiar with all aspects of Due Diligence Property Assessments and the needs and requirements of a varied number of reporting standards, including the new standard ASTM E1527-05, EPA's All Appropriate Inquiry (AAI), Fannie Mae DUS, Freddie Mac, and customized client formats and scopes.

Due Diligence Project experience for Ms. Men includes:

- Phase I Environmental Assessments, Environmental Transaction Screens and other related environmental assessments for sites including apartment buildings/complexes, commercial office buildings, shopping centers, multi-tenant commercial complexes, industrial warehouses and manufacturing facilities, gas stations, auto repair facilities
- Reviewed and evaluated hundreds of third-party Phase I, Phase II and Phase III reports
- Conducted several asbestos and lead-based paint inspections of commercial and residential properties
- Conducted radon testing at numerous residential properties throughout California

Ms. Men has designed, performed, and/or managed numerous subsurface investigations, including the following product types:

- Phase II Subsurface Investigations
- Phase III Site Characterizations
- Soil Gas Surveys
- Underground Storage Tank Removals
- Health-Based Risk Assessments
- Quarterly Groundwater Monitoring
- Geophysical Surveys
- Data Interpretation and Analysis for Third-Party Subsurface Investigations
- Peer Reviews

In addition, Ms. Men has technical experience in the following:

- Design of a radon study of uranium granite finishes installed in homes throughout the country
- Research and surface water quality monitoring for Southern California lakes
- Assessment of internal and external nutrient loading
- Assessment of in-situ mitigation techniques,
- Assessments of water quality on aquatic biota mortality, fecundity, and population dynamics

Ms. Men has technical experience working for the following financial institutions:

- United Commercial Bank
- Union Bank
- Citigroup
- California Bank & Trust
- East West Bank
- NorthMarq Capital
- JPMorgan Chase Bank
- Bank of the West
- Wells Fargo Bank
- Lehman Brothers Bank
- City National Bank
- US Bank

Joseph Derhake, PE
Principal

Education
MBA, University of Southern California
B.S. Civil Engineering, Michigan State University

Registrations
Registered Professional Civil Engineer, California
Registered Professional Civil Engineer, Arizona
Registered Professional Civil Engineer, Tennessee
EPA Accredited Asbestos Inspector, Management Planner, Designer (not current)

Affiliations
Member, Environmental Banker's Association
Member, Mortgage Banker's Association

Summary of Professional Experience
Mr. Derhake serves as the President of Partner Engineering and Science, a national engineering and environmental consulting firm.

Mr. Derhake has over fifteen years of experience managing and performing environmental and engineering consulting. He began his career as a project engineer, then worked up to project manager, client relationship manager, executive manager, and eventually became a successful entrepreneur who has innovated and advanced the profession.

Mr. Derhake has served as a staff engineer, project manager, or executive senior author on over 10,000 real estate transactions throughout his career. His due diligence resume includes experience at all levels, including advising lenders and real estate investors through the following product types:

- Phase I Environmental Site Assessments
- Phase II Subsurface Investigations
- Phase III Site Characterizations
- Remedial Cost Estimates
- Environmental Transaction Screens

Remedial Cost Estimates allow real estate professionals to prudently complete transactions on contaminated property, and this consulting product has become one of Mr. Derhake's specialties. The prerequisite to a sound Remedial Cost Estimate is a sound Phase I, Phase II, and Phase III. With adequate assessment and characterization data in hand, Mr. Derhake can leverage his remedial design and implementation experience to produce a reliable estimate.

Understanding the extent and threat posed by a subsurface release is one of Mr. Derhake's most

valuable points of expertise. He has over fifteen years of experience in testing soil, soil gas, and groundwater in the context of real estate transactions, as well as under the supervision of state or federal regulators. Mr. Derhake has guided hundreds of landowners through the process of site characterization, gaining an approved remedial action plan, implementing the remedial technology, and ultimately gaining site closure.

Mr. Derhake has a significant portfolio of closed sites.

The following table includes some of the contaminants Mr. Derhake has removed and some of the technologies used:

Contaminants	***Remedial Technologies***
Gasoline/Diesel	Soil Vapor Extraction
Free Product Floating on Groundwater	Air Sparging
Metals: Lead, Arsenic, Chromium	Dual Phase Extraction
Pesticides	Pump and Treat
PCBs	Ozone Sparging
Chlorinated solvents	In-situ Chemical Oxidation
Other Solvents: Acetone, Toluene	Bioremediation (in-situ and ex-situ)
	Bio-sparging
	Excavation
	Fixation

Mr. Derhake speaks regularly at industry events and conferences. Engagements within recent years include:

- Spoke at the Risk Managers Association (RMA) Credit Committee on the effects of the latest Federal All Appropriate Inquiries (AAI) standard for Phase I Environmental Site Assessments.
- Participated in the Real Estate Industry Roundtable on due diligence during a real estate transaction.
- Frequent speaker and/or panelist at the Environmental Bankers Association conferences.
- Spoke at the National Brownfields Association's Big Deal Conference in March of 2009 on the subject of LEED Development.

Publications

Managing Seismic Risk, RMA Journal, June 2010

Understanding PMLs and Managing Engineering Providers, Commercial Mortgage Finance News, Summer 2009

California Getting Real Energy, ENR, March 2009

Lender's Tolerance for Environmental Risk, RMA Journal, February 2009

The New Vapor-Intrusion Standard, Scotsman Guide, May 2008

Probable Maximum Loss Article, Scotsman Guide, June 2008

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New Law Ranks Commercial Buildings by Efficiency, GlobeSt.com, December 2008

EBA Technical Committee Risk Tolerance Survey, June 2008

New Energy Disclosures Required by Assembly Bill 1103, California Mortgage Finance News, November 2008