REPORT OF FINDINGS
5TH Street and Magnolia Street
West Oakland, California

November 2015

Prepared for

Holliday Development
1201 Pine Street, Suite 151
Oakland, CA 94607

Prepared by

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415/460-6770 Fax 415/460-6771
main@westenvironmental.com

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All information, conclusions and recommendations contained in this report have been prepared under the supervision of the undersigned professional(s).

Peter M. Krasnoff
California Registered Civil Engineer (44031)

REGISTERED PROFESSIONAL ENGINEER
PETER KRASNOFF
C44031
EXP. 6/30/17
CIVIL
STATE OF CALIFORNIA

11/3/15
Date

Peter E. Morris
California Professional Geologist (7084)

PROFESSIONAL GEOLOGIST
PETER E. MORRIS
7084
Exp. 4/30/17
STATE OF CALIFORNIA

11/3/15
Date

1.0 INTRODUCTION

This *Report of Findings* ("*Report*") has been prepared by West Environmental Services & Technology, Inc., (WEST) and presents the findings of the soil, soil gas and groundwater investigation conducted at 5th Street and Magnolia Street property located in West Oakland, California ("Site;" Figure 1-1). This *Report* includes: a description of the Site background and setting; summary of the investigation; data evaluation and comparative analysis; and conclusions. The *Report* was prepared in accordance with regulatory guidance documents including the State Water Resources Control Board (SWRCB) *Resolution 92-49, Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code 13304* (SWRCB, 1996.

1.1 BACKGROUND

The approximately 0.5-acre Site is an undeveloped asphalt paved lot bounded by: 5th Street to the south; Union Street to the west; commercial businesses to the north; and Magnolia Street to the east; and is located within a commercial zone. The Site was formerly part of the California Department of Transportation's (Caltrans) Interstate 880 (Cypress Freeway) right-of-way that was demolished following the 1989 Loma Prieta earthquake. As part of the demolition, the freeway support columns were demolished to approximately three-feet below ground surface. In August 2015, Caltrans auctioned the Site for redevelopment.

Neighboring commercial businesses include automobile repair and service operations. Releases to soil and groundwater occurred on the adjacent commercial properties (1225 7th Street and 1211 7th Street) from underground storage tanks (USTs) containing petroleum products. In June 1997, the releases from the USTs at 1225 7th Street were closed by the Alameda County Health Care Services Agency (ACHCSA, 1997). Investigations of the UST releases at 1211 7th Street are currently ongoing

In September 2015, an investigation was conducted to characterize the Site environmental conditions and potential impacts from the UST releases on the adjacent properties. Eight borings (W-1 to W-8) were advanced for the collection of soil, soil gas and groundwater samples. Laboratory analysis of the soil samples revealed the presence of polycyclic aromatic hydrocarbons (PAHs) including benzo(a)pyrene up to 119 micrograms per kilogram (µg/kg). Organochlorine pesticides were also detected in the soil samples including chlordane up to 18.4 µg/kg and 4,4-DDE up to 7.54 µg/kg. Metals were detected in the soil samples including arsenic up to 7.21 milligrams per kilogram (mg/kg) and lead up to 2,180 mg/kg.

Volatile organic compounds (VOCs) were detected in the soil gas samples collected from borings W-1, W-2, W-4 and W-7 including: tetrachloroethene (PCE) up to 352 micrograms per cubic meter ($\mu g/m^3$) and benzene up to 9.14 $\mu g/m^3$. Laboratory analysis of the groundwater samples did not reveal total petroleum hydrocarbons as gasoline (TPHg) or VOCs above the laboratory-reporting limits, except for PCE up to 0.850 micrograms per liter (µg/l).

The Site is proposed for commercial development. A comparative analysis between the Site data and applicable human health screening criteria indicates that chemicals in soil, soil gas and groundwater are present below their respective commercial California Regional Water Quality Control Board – San Francisco Bay (Regional Water Board) Environmental Screening Levels (ESLs).

2.0 SITE DESCRIPTION

The approximately 0.5-acre Site is an undeveloped asphalt paved lot is located within a commercial zone and bounded by: 5th Street to the south; Union Street to the west; commercial businesses to the north; and Magnolia Street to the east. As part of the demolition, the freeway support columns were demolished to approximately three-feet below ground surface. In August 2015, Caltrans auctioned the Site for redevelopment.

2.1 GEOLOGIC AND HYDROGEOLOGIC SETTING

The geology encountered in borings at the Site is comprised of fill and unconsolidated sands, silty sands and clay sands of the Merritt Formation. The fill material is approximately three-feet thick and comprised of sands and gravels with brick and concrete debris. Unconsolidated sands, silty sands and clayey sands of the Merritt Formation were encountered beneath the fill material to approximately 16-feet below ground surface (Appendix A).

Groundwater was encountered in the borings advanced at the Site between approximately 10-feet and 12-feet below ground surface. The groundwater flow direction measured at nearby sites is to the west-southwest (AEC, 1995).

2.2 SURFACE WATER

The San Francisco Bay is located approximately 500-feet west of the Site.

2.3 HISTORICAL SITE USE

The Site was formerly part of the Caltrans Interstate 880 (Cypress Freeway) right-of-way that was demolished following the 1989 Loma Prieta earthquake. Following freeway demolition, the Site was paved and fenced for use as a parking and equipment storage lot.

2.4 CURRENT USES OF ADJOINING PROPERTIES

Two adjoining properties to the north (1211 and 1225 7th Street) have been used for automobile repair and service operations. Releases of petroleum products from USTs have occurred at 1211 and 1225 7th Street. The UST release at 1225 7th Street (Zentrum Motors) impacted soil and occurred from a 10,000-gallon gasoline UST that was removed in 1992. In 1997, the Alameda County Health Care Services Agency (ACHCSA) closed the UST release at 1225 7th Street (ACHCSA, 1997).

The release at 1211 7th Street (Former Everidge Service Co.) impacted soil and groundwater and occurred from three 4,000-gallon gasoline USTs and one 250-gallon waste oil UST. The four USTs were installed in the 1960s (AEC, 1995). In 1992, the four USTs were removed. Between 1992 and 1995, investigations were conducted at 1211 7th Street to characterize the UST releases. In September 2015, the Regional Water Board approved a work plan to address data gaps at 1211 7th Street including: membrane interface probe (MIP); soil and groundwater sampling; preferential pathway study; monitoring well installation and soil gas sampling (Regional Water Board, 2015).

3.0 SUMMARY OF INVESTIGATIONS

In September 2015, soil, soil gas and groundwater samples were collected from eight borings, W-1 to W-8, advanced at the Site. The borings were advanced between three-feet and 16-feet below ground surface. A description of the sample collection methodologies and summaries of the laboratory analytical results are presented below. Summaries of the laboratory analytical results are also included in Tables 3-1 to 3-4 and depicted on Figures 3-1 and 3-2. Copies of the field data forms and boring logs are included in Appendix A. Copies of the laboratory data certificates and chain-of-custody forms are included in Appendix B.

3.1 SOIL SAMPLING

The borings were advanced using hydraulic direct push drilling equipment operated by a California licensed C-57 well drilling contractor. Soil cores were collected from the borings continuously using a four-foot long, two-inch diameter stainless steel Macrocore core barrel outfitted with an acetate liner. The soil cores were described on boring logs using the Unified Soil Classification System (USCS) and field screened for total organic vapors using a photoionization detector (PID) equipped with a 10.6 electron-Volt (eV) lamp and calibrated to 100 parts per million by volume (ppm_v) isobutylene gas.

3.1.1 Sample Collection Methodology

Soil samples for laboratory analyses were cut from approximately six-inch lengths of the acetate liner at target depths of approximately one-foot, three-feet and six-feet below ground surface. The ends of the soil samples were then covered with Teflon® sheets and plastic end caps, labeled and placed in a cooler with ice for transportation to a California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory for chemical analysis following ASTM D4840 chain-of-custody protocols. The soil samples were analyzed for PAHs by United States Environmental Protection Agency (USEPA) Method 8270C,

organochlorine pesticides by USEPA Method 8081A and Title 22 Metals by USEPA Method 6000/7000 series.

3.1.2 Laboratory Analytical Results

3.1.2.1 PAHs

Laboratory analysis of the soil samples collected from the borings at approximately one-foot below ground surface revealed PAHs including: Acenaphthylene up to 32 µg/kg (W-4); anthracene up to 25.9 µg/kg (W-4); benzo(a)anthracene up to 105 µg/kg (W-4); benzo(b)fluoranthene up to 187 µg/kg (W-7); benzo(k)fluoranthene up to 60.7 µg/kg (W-4); benzo(a)pyrene up to 119 µg/kg (W-4); benzo(g,h,i)perylene up to 287 µg/kg (W-4); chrysene up to 130 µg/kg (W-3); dibenzo(a,h)anthracene up to 430 µg/kg (W-6); fluoranthene up to 87 µg/kg (W-4); fluorene up to 28.2 µg/kg (W-4); indeno(1,2,3-c,d)pyrene up to 120 µg/kg (W-7); naphthalene up to 26.2 µg/kg (W-2); phenanthrene up to 129 µg/kg (W-4); and pyrene up to 184 µg/kg (W-4)(Table 3-1).

3.1.2.2 Organochlorine Pesticides

The organochlorine pesticides chlordane and 4,4-DDE were detected in the soil samples collected from borings W-1 to W-8 at one-foot below ground surface. Chlordane was detected up to 18.4 µg/kg (W-8). 4,4-DDE was detected up to 7.54 µg/kg (W-5; Table 3-1). Other organochlorine pesticides were not detected above the laboratory-reporting limits.

3.1.2.3 Metals

Soil samples collected from the borings at one-foot, three-feet and six-feet below ground surface were analyzed for metals. Arsenic was detected up to 7.21 mg/kg (W-2 at one-foot below ground surface); barium up to 1,790 mg/kg (W-2 at three-feet below ground surface); chromium up to 29.9 mg/kg (W-4 at three-feet below ground surface); cobalt up to 8.18 mg/kg (W-3 at one-foot

below ground surface); copper up to 43.4 mg/kg (W-4 at three-feet below ground surface); lead up to 2,180 mg/kg (W-4 at three-feet below ground surface); mercury up to 0.38 mg/kg (W-2 at three-feet below ground surface); nickel up to 34.5 mg/kg (W-4 at three-feet below ground surface); vanadium up to 43.2 mg/kg (W-3 at one-foot below ground surface); and zinc up to 701 mg/kg (W-4 at three-feet below ground surface)(Table 3-2 and Figure 3-1)

3.2 SOIL GAS SAMPLING

Soil gas samples were collected four borings W-1, W-2, W-4 and W-7 at approximately five-feet below ground surface. A summary of the sample collection methodology and laboratory analytical results is presented below.

3.2.1 Sample Collection Methodology

3.2.1.1 TEMPORARY VAPOR PROBE INSTALLATION

The soil gas samples were collected from temporary vapor probes constructed within the boring annulus. An approximately six-inch thick layer of #3 Monterey filter sand was placed at the base of the borehole. Following filter sand placement, a microfilter screen outfitted with a length of Teflon® tubing was lowered into the borehole. Additional filter sand was then added between at the base of the inlet screen to approximately six-inches above the top of the inlet screen. Approximately one-foot of dry bentonite granules was then placed above the sand filter pack. Hydrated bentonite granules were then placed above the dry bentonite granules within the borehole to the ground surface.

Following temporary soil gas probe installation and a minimum two-hour equilibration period was allowed prior to purge testing, leak testing and/or sample collection (DTSC, 2012). A summary of the sample collection methodology is presented below.

3.2.1.2 SHUT-IN TESTING

Prior to purging or sampling soil gas, a test was conducted to check for leaks in the aboveground fittings, i.e., "shut-in" test. The shut-in test consisted of assembling the above ground apparatus (e.g., valves, lines and fittings downstream from the top of the probe), and evacuating the lines to a measured vacuum of approximately 100-inches of water column, then shutting the vacuum with closed valves on opposite ends of the sampling equipment. The vacuum gauge connected to the line via "T"-fitting was observed for at least one minute for observable loss of vacuum.

3.2.1.3 LEAK TESTING

Following the shut-in testing, a tracer compound was applied at the connections of the sampling equipment including valves, gauges, tubing, manifold and sample container. Helium was used for leak tracer testing by placing a shroud over the probe and sampling equipment. The helium was released into the shroud through a leak compound addition port and a handheld helium detector was connected to the leak compound sample port. Helium was added until a steady concentration of at least 10-percent or two orders of magnitude greater than the reporting-limit of the field meter used to analyze the sample. Helium concentrations were recorded on field data forms. The shroud remained in place and a steady helium concentration of 10-percent or greater was maintained during purging and sampling. Effluent from the purge pump was also monitored with the handheld helium monitor. Laboratory analysis of the soil gas samples will include testing for helium gas to assess for leakage.

3.2.1.4 PURGING

Following the leak test and shut-in testing, purging of the temporary soil gas probe was conducted. Approximately three purge volumes were removed (DTSC, 2012). The purge volume (also referred to as the "dead space volume") was estimated by summation of the internal volume of tubing, void space of the sand pack around the probe tip and void space of the dry bentonite. Purge flow rates between 100 to 200 mL/min and vacuums less than 100 inches of

water were maintained during purging. The purge effluent was also field screened for total organic compounds using a hand-held PID equipped with a 10.6 eV lamp and calibrated to 100 ppm_v as isobutylene gas. The purge effluent was also field screened for the helium tracer gas. The PID and helium detector readings were recorded on field data sheets.

3.2.1.5 SAMPLE COLLECTION

Following purging, the soil gas sample were collected using laboratory-prepared one-liter passivated stainless steel SUMMA® canisters delivered by the analytical laboratory with approximately 30-inches of mercury vacuum. The vacuum within the SUMMA® canisters was measured before sample collection to document the canister atmosphere. The flow control valve was then opened slowly to begin the sample collection.

Following sample collection, the flow control valve was closed and the canister atmosphere measured with a pressure gauge and recorded on the field data forms. The SUMMA® canister was then transported to a CDPH ELAP certified laboratory certified laboratory following chain-of-custody procedures outlined in ASTM D 4840. The soil gas samples were analyzed for VOCs by USEPA Method TO-15 and helium by ATM Method D 1945.

3.2.2 Laboratory Analytical Results

Laboratory analysis of the soil gas samples revealed the presence of VOCs including: PCE up to 352 $\mu g/m^3$ (W-4); benzene up to 9.14 $\mu g/m^3$ (W-1); toluene up to 15.8 $\mu g/m^3$ (W-1); ethyl benzene up to 4.60 $\mu g/m^3$ (W-1); xylenes up to 19.11 $\mu g/m^3$ (W-1); 1,3,5-trimethylbenzene (1,3,5-TMB) up to 10.4 $\mu g/m^3$ (W-1); 1,2,4-trimethylbenzene (1,2,4-TMB) up to 17 $\mu g/m^3$; and trichlorofluoromethane (TCFM) up to 16.7 $\mu g/m^3$ (Table 3-3 and Figure 3-2). The helium leak tracer gas was not detected in the soil gas samples above the laboratory-reporting limit of 0.100-percent.

3.3 GROUNDWATER SAMPLING

Groundwater samples were collected from borings W-1, W-2 and W-4. A summary of the sample collection methodology and laboratory analytical results is presented below.

3.3.1 Sample Collection Methodology

Groundwater samples were collected from the borings by installing temporary well casing within the borehole annulus. The base of the temporary well casing was comprised of a five-foot long, 0.75-inch diameter Schedule 40 polyvinyl chloride (PVC) slotted well casing equipped with a pre-pack sand filter. The top of the slotted well screen was outfitted with 0.75-inch Schedule 40 PVC blank well casing to the ground surface. The groundwater samples were then collected by placing a length of disposable polyethylene tubing into the temporary well casing that was attached to a peristaltic pump to purge water from the borehole. The groundwater was then decanted into laboratory-supplied pre-cleaned sample containers, labeled and placed in a cooler with ice for transportation to a CDPH ELAP certified laboratory following ASTM D 4840 chain-of-custody protocols. The groundwater samples were analyzed for TPHg by USEPA Method 8015M modified and for VOCs by USEPA Method 8260B.

3.3.2 Laboratory Analytical Results

Laboratory analysis of the groundwater samples did not reveal the presence of TPHg above its laboratory-reporting limit of 0.050 milligrams per liter (mg/l)(Table 3-4). VOCs were not detected in the groundwater samples above their laboratory-reporting limits, except for PCE at 0.850 µg/l (W-2)(Table 3-4).

4.0 DATA EVALUATION

Consistent with Regional Water Board guidance, a screening level assessment was performed to assist in assessing the adequacy of the existing data (Regional Water Board, 2013). The screening level assessment consisted of three components: (1) identification of potential exposure pathways; (2) identification of appropriate screening levels for each media; and (3) a comparative analysis. The screening level assessment has been used to evaluate conditions of potential concern and identify areas for additional investigations, i.e., data gaps.

4.1 SCREENING LEVEL ASSESSMENT

4.1.1 Exposure Pathways Evaluation

Exposure pathways for PAHs, pesticides and metals in soil, VOCs in soil gas and VOCs in groundwater at the Site have been evaluated to assess the potential impacts to human health and the environment. Direct contact and ingestion of soil is identified as complete exposure pathway for future construction and maintenance workers. Inhalation of VOCs is identified as a potentially complete exposure pathway for future Site occupants. Direct exposure to VOCs in groundwater is not identified as a potentially complete exposure pathway as the Site is served by municipal water supply (Figure 4-1).

4.1.1.1 EXPOSURE CONCENTRATIONS

Where sample data were limited, the maximum-detected concentration of the chemicals was compared with the screening levels. Where an adequate number of data points were available, the 95 percent upper confidence level (UCL) of the mean concentration, i.e., the Reasonable Maximum Exposure (RME) was compared with the screening levels, pursuant to CalEPA and USEPA guidance (CalEPA, 1996). The 95-percent UCL was calculated using ProUCL Version 5.0 (USEPA, 2013) and was performed on the soil laboratory analytical results for lead in soil. Copies of the statistical calculations are included in Appendix C.

The USEPA recommends that maximum beneficial uses of a property be the basis for evaluation. The reasonably anticipated beneficial use of the Site is commercial. Therefore, the Site conditions have been screened using the methods described below based on a commercial exposure scenario.

4.1.1.2 COMMERCIAL/INDUSTRIAL WORKER

The commercial/industrial scenario uses the conservative assumption that on-Site workers spend all or most their workday outdoors. The exposure for commercial/industrial workers is presumed to include: (1) a full time employee of a company operating on-site who spends most of the work day conducting maintenance or manual labor activities outdoors or (2) a worker who is assumed to regularly perform grounds-keeping activities as part of his/her daily responsibilities (Regional Water Board, 2013). Exposure to surface and shallow subsurface soils (i.e., at depths of zero- to two-feet below ground surface) is expected to occur during moderate digging associated with routine maintenance and grounds-keeping. The commercial/industrial worker scenario is based on a worker that is exposed to chemicals at the Site for 24-hours per day during 250-days per year for 25-years.

4.1.2 Identification of Screening Levels

Based on the identified exposure pathways, screening levels were identified for chemicals in soil, soil gas and groundwater as non-drinking water source. Chemical-specific screening levels were developed from concentrations based on published environmental screening criteria. The screening levels that were considered include the Regional Water Board ESLs. Exceeding a screening level "does not necessarily indicate that adverse impact to human health or the environment are occurring, [it] simply indicates that potential for adverse impacts may exist and that additional evaluation is warranted" (Regional Water Board, 2013).

4.1.2.1 REGIONAL WATER BOARD ESLS

The Regional Water Board has identified ESLs for PAHs, pesticides and metals in soil, VOCs in soil gas and groundwater (Regional Water Board, 2013). The Regional Water Board ESLs "are considered to be very conservative [and] the presence of a chemical at concentrations below the corresponding ESL can be assumed to not pose a significant threat to human health and the environment." While a chemical may be measured at concentrations above the Regional Water Board ESL, it "does not necessarily indicate that adverse impact to human health or the environment are occurring, [it] simply indicates that potential for adverse impacts may exist and that additional evaluation is warranted." In developing the ESLs, the Regional Water Board has considered exposure pathways to humans, including inhalation of VOCs in indoor air from migration of contaminated soil gas.

4.2 COMPARATIVE ANALYSIS

An evaluation between the identified screening levels and the soil laboratory analytical results was performed to characterize the Site conditions.

4.2.1 Soil Conditions

4.2.1.1 PAHS

PAHs were detected in the soil samples collected at the Site at concentrations below their respective commercial Regional Water Board ESLs with the exception of dibenzo(a,h)anthracene. Dibenzo(a,h)anthracene was detected up to 430 µg/kg, which is above its commercial Regional Water Board ESL of 380 µg/kg (W-6; Table 3-1). However, as the commercial worker is not anticipated to be exposed to soil below two-feet; the presence of dibenzo(a,h)anthracene at this depth does not represent a complete exposure pathway. The 95-percent UCL, i.e., exposure point concentration of dibenzo(a,h)anthracene in soil at 1-foot below

ground surface was calculated at 185 µg/kg, which is below the commercial Regional Water Board ESL of 430 µg/kg.

4.2.1.2 ORGANOCHLORINE PESTICIDES

The organochlorine pesticides chlordane and 4,4-DDE were detected in the soil samples above the laboratory-reporting limits. Chlordane was detected up to 18.4 µg/kg, which is below its commercial Regional Water Board ESL of 1,700 µg/kg. 4,4-DDE was detected up to 7.54 µg/kg, which is below its commercial Regional Water Board ESL of 7,000 µg/kg (Table 3-1).

4.2.1.3 METALS

Metals were detected in the soil samples collected between one-foot and six-feet below ground surface. Arsenic was detected up to 7.21 mg/kg, which is within the range of background arsenic concentrations up to 11 mg/kg for the San Francisco Bay Area (Duverge, 2011). Lead was detected up to 2,180 mg/kg (W-4 at three-feet below ground surface), which is above its commercial Regional Water Board ESL of 320 mg/kg (Table 3-2 and Figure 3-1). However, as the commercial worker is not anticipated to be exposed to soil below two-feet; the presence of lead at this depth does not represent a complete exposure pathway. The 95-percent UCL, i.e., exposure point concentration of lead in soil at 1-foot below ground surface was calculated at 185 mg/kg, which is below the commercial Regional Water Board ESL of 320 mg/kg.

Other metals were detected above the laboratory-reporting limits but at concentrations below their respective commercial Regional Water Board ESLs (Table 3-2).

4.2.2 Soil Gas Conditions

VOCs were detected in the soil gas samples collected from borings W-1, W-2, W-4 and W-7. PCE was detected up to 352 µg/m^3 (W-4), which is below its commercial Regional water Board ESL of 2,100 µg/m^3 for the protection of indoor air. Benzene was detected up to 9.14 µg/m^3 (W-

1), which is below its commercial Regional Water Board ESL of 420 µg/m^3. Toluene was detected up to 15.8 µg/m^3, which is below its commercial Regional water Board ESL of 1,600,000 µg/m^3. Ethyl benzene was detected up to 4.60 µg/m^3, which is below its commercial Regional Water Board ESL of 4,900 µg/m^3. Xylenes were detected up to 19.11 µg/m^3, which is below its commercial Regional Water Board ESL of 440,000 µg/m^3 (Table 3-3 and Figure 3-2).

Other VOCs were detected in the soil gas samples including 1,3,5-TMB (up to 10.4 µg/m^3), 1,2,4-TMB (up to 17 µg/m^3) and TCFM (up to 16.7 µg/m^3); however, there are currently no promulgated Regional Water Board ESLs for these compounds.

4.2.3 Groundwater Conditions

Groundwater samples were collected from borings W-1, W-2 and W-4 (Figure 2-1). Laboratory analysis of the groundwater samples did not reveal the presence of TPHg above its laboratory-reporting limit of 0.050 mg/l. The VOC PCE was detected up to 0.850 µg/l, which is below its maximum contaminant level (MCL) of 5 µg/l. Other VOCs were not detected in the groundwater samples above their respective laboratory-reporting limits (Table 3-4).

4.3 CONCLUSIONS

The findings of the Site investigation indicate that the exposure point concentration for the PAH dibenz(a,h)anthracene (185 µg/kg) and lead (185 mg/kg) are present in soil below their respective commercial Regional Water Board ESLs of 380 µg/kg and 320 mg/kg, for the protection of human health under a commercial use scenario. VOCs were detected in the soil gas samples including PCE, but at levels below their respective commercial indoor air protection ESLs. The VOC PCE was detected in the groundwater sample at 0.850 µg/l (boring W-2) but at a concentration below its MCL of 5 µg/l.

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6.0 DISTRIBUTION LIST

Mr. Kevin Brown
Holliday Development
1201 Pine Street, Suite 151
Oakland, CA 94607

TABLES

TABLE 3-1
SUMMARY OF SOIL ANALYTICAL RESULTS - PAHS and PESTICIDES
5th and Magnolia
West Oakland, California

Sample ID	Date	Depth (feet)	PAHs															Pesticides	
			Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(a)pyrene	Benzo(g,h,i) perylene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-c,d) pyrene	Naphthalene	Phenanthrene	Pyrene	Chlordane	4,4-DDE
			(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
W-1	9/17/18	1	9.42	5.46	14.8	80	15.6	47.1	209	53.4	36.5	8.07	<2.50	41.8	14	19.3	29.5	<12.5	<5.00
W-2	9/17/18	1	14.8	10.1	55.1	132	35.8	99.8	255	79.6	59.3	31.5	<2.50	103	26.2	36	97.1	17.6	<5.00
W-3	9/17/18	1	11.3	6.73	26	176	27	87.4	240	130	98.1	14.4	23	87.3	12.3	49.2	101	<12.5	<5.00
W-4	9/17/18	1	32	25.9	105	178	60.7	119	287	91.9	70.6	87	28.2	107	13.9	129	184	15.2	<5.00
W-5	9/17/18	1	20.3	18.3	67.5	130	47.2	81.5	159	75.9	26	74	<2.50	99.6	11.4	49.7	127	<12.5	7.54
W-6	9/17/18	1	17.7	9.44	36.9	74.5	28.3	44.4	226	40.5	430	28.2	19.5	59.2	11.7	38.3	72.6	15.8	<5.00
W-7	9/17/18	1	18.8	15.7	61.2	187	45.2	111	264	97.2	77.3	50.7	9.02	120	13.5	84.2	144	15.3	<5.00
W-8	9/17/18	1	13.9	6.45	41.7	134	38.5	78.2	234	80.1	73.1	17.1	13	99.7	23.6	30.9	48.4	18.4	<5.00
ESLs-Commercial			1.5.E+04	170,000	1,300	1,300	1,300	130	--	13,000	380	22,000	22,000	1,300	150	--	33,000	1,700	7,000

Notes:
PAHs: Polycyclic aromatic hydrocarbons
µg/kg: micrograms per kilogram
--: Not analyzed/not available
ESLs: California Regional Water Quality Control Board - San Francisco Bay Region Environmental Screening Levels
<2.50: Less than the laboratory-reporting limit of 2.50 µg/kg

TABLE 3-2
SUMMARY OF SOIL ANALYTICAL RESULTS - METALS
5th and Magnolia
West Oakland, California

Sample ID	Date	Depth (feet)	Metals																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vaadium	Zinc
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
W-1	9/17/15	1	--	3.58	--	--	--	--	--	--	25.9	--	--	--	--	--	--	--	--
		3	--	<2.50	--	--	--	--	--	--	119	--	--	--	--	--	--	--	--
		6	--	<2.50	--	--	--	--	--	--	3.45	--	--	--	--	--	--	--	--
W-2	9/17/15	1	--	7.21	--	--	--	--	--	--	36.4	--	--	--	--	--	--	--	--
		3	<2.50	6.91	1,790	<2.50	<2.50	25.6	3.92	37.7	661	0.38	<2.50	20	<2.50	<2.50	<2.50	28.5	688
		6	--	<2.50	--	--	--	--	--	--	<2.50	--	--	--	--	--	--	--	--
W-3	9/17/15	1	<2.50	2.61	99.1	<2.50	<2.50	23.1	8.18	40.1	19.6	0.127	<2.50	27.8	<2.50	<2.50	<2.50	43.2	87.1
		3	--	<2.50	--	--	--	--	--	--	169	--	--	--	--	--	--	--	--
		6	--	<2.50	--	--	--	--	--	--	1,360	--	--	--	--	--	--	--	--
W-4	9/17/15	1	--	3.54	--	--	--	--	--	--	24.7	--	--	--	--	--	--	--	--
		3	<2.50	7.17	990	<2.50	<2.50	29.9	6.35	43.4	2,180	0.344	<2.50	34.5	<2.50	<2.50	<2.50	26.7	701
		6	--	<2.50	--	--	--	--	--	--	<2.50	--	--	--	--	--	--	--	--
W-5	9/17/15	1	--	5.60	--	--	--	--	--	--	510	--	--	--	--	--	--	--	--
		3	--	<2.50	--	--	--	--	--	--	50.2	--	--	--	--	--	--	--	--
		6	--	<2.50	--	--	--	--	--	--	<2.50	--	--	--	--	--	--	--	--
W-6	9/17/15	1	--	4.34	--	--	--	--	--	--	25.5	--	--	--	--	--	--	--	--
		3	--	4.36	--	--	--	--	--	--	316	--	--	--	--	--	--	--	--
		6	<2.50	<2.50	36.1	<2.50	<2.50	22.3	<2.50	4.04	7.87	<0.100	<2.50	11.9	<2.50	<2.50	<2.50	15.6	12.8
W-7	9/17/15	1	--	4.90	--	--	--	--	--	--	18.9	--	--	--	--	--	--	--	--
		3	--	2.50	--	--	--	--	--	--	199	--	--	--	--	--	--	--	--
		6	--	2.64	--	--	--	--	--	--	2.87	--	--	--	--	--	--	--	--
W-8	9/17/15	1	--	3.28	--	--	--	--	--	--	20.1	--	--	--	--	--	--	--	--
		3	--	2.76	--	--	--	--	--	--	174	--	--	--	--	--	--	--	--
		6	--	2.93	--	--	--	--	--	--	3.58	--	--	--	--	--	--	--	--
ESLs-Commercial			410	bg	1.9E+05	2,000	1,000	1.5E+06	300	41,000	320	88	5,100	19,000	5100	5,100	10	5,100	3.1E+05

Notes:
mg/kg: milligrams per kilogram
--: Not analyzed
ESLs: California Regional Water Quality Control Board - San Franicsco Bay Region Environmental Screening Levels
<2.50: Less than the laboratory-reporting limit of 2.50 µg/kg

TABLE 3-3
SUMMARY OF SOIL GAS ANALYTICAL RESULTS
5th and Magnolia
West Oakland, California

Sample ID	Depth (feet)	Date	PCE	Benzene	Toluene	Ethyl benzene	Xylenes	1,3,5-TMB	1,2,4-TMB	TCFM	Helium
			($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	(%)
W-1	5	9/17/15	29.4	9.14	15.8	4.60	19.11	10.4	17	16.7	<0.100
W-2	5	9/17/15	224	<16.0	<18.8	<21.7	<21.7	<24.6	<24.6	<28.1	<0.100
W-4	5	9/17/15	352	<16.0	<18.8	<21.7	<21.7	<24.6	<24.6	<28.1	<0.100
W-7	5	9/17/15	64	<16.0	<18.8	<21.7	<21.7	<24.6	<24.6	<28.1	<0.100
ESLs-Commercial			2,100	420	1,600,000	4,900	440,000	--	--	--	--

Notes:

PCE: Tetrachloroethene
TMB: Trimethylbenzene
TCFM: Trichlorofluoromethane
$\mu g/m^3$: micrograms per meter cubed
<21.8: Less than the laboratory-reporting limit of 21.8 $\mu g/m^3$
--: not available
ESLs: California Regional Water Quality Control Board - San Franicsco Bay Region Environmental Screening Levels

TABLE 3-4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
5th and Magnolia
West Oakland, California

Sample ID	Date	TPHg	Benzene	PCE
		(mg/l)	(µg/l)	(µg/l)
W-1	9/17/15	<0.050	<0.500	<0.500
W-2	9/17/15	<0.050	<0.500	0.850
W-4	9/17/15	<0.050	<0.500	<0.500
MCLs		100	1	5

Notes:

TPHg: Total petroleum hydrocarbons as gasoline
PCE: Tetrachloroethene
µg/l: micrograms per liter
mg/l: milligrams per liter
<0.500: Less than the laboratory-reporting limit of 0.500
MCLs: Maximum Contaminant Levels

FIGURES

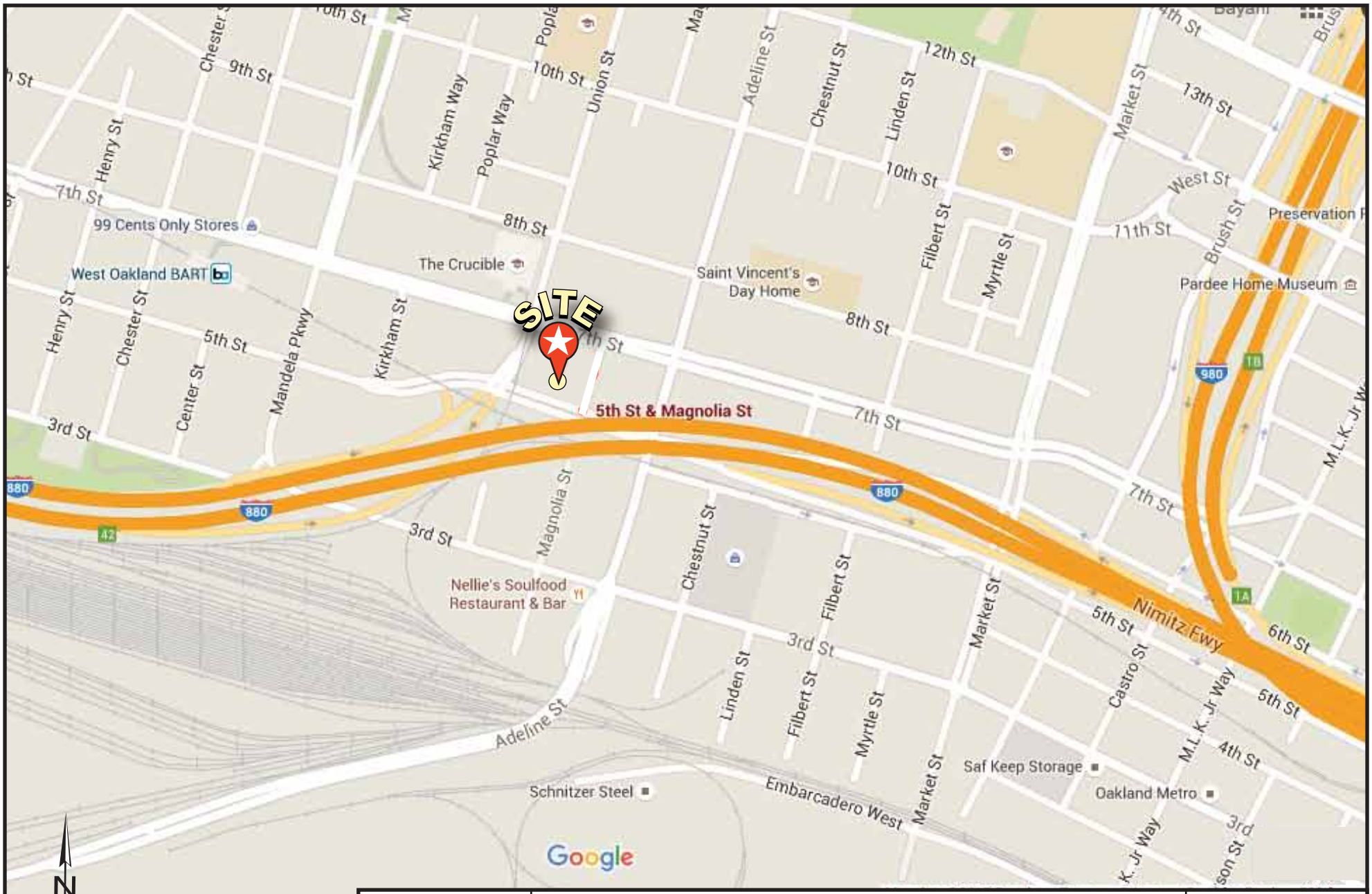


Figure 1-1	**SITE LOCATION MAP**	WEST Environmental Services & Technology
November 2015	5th Street and Magnolia Street, West Oakland, California	

Figure 2-1	**SITE PLAN**	WEST Environmental Services & Technology
November 2015	5th Street and Magnolia Street, West Oakland, California	

Figure 3-1

SUMMARY OF LEAD IN SOIL ANALYTICAL RESULTS

November 2015

5th Street and Magnolia Street, West Oakland, California

WEST Environmental Services & Technology

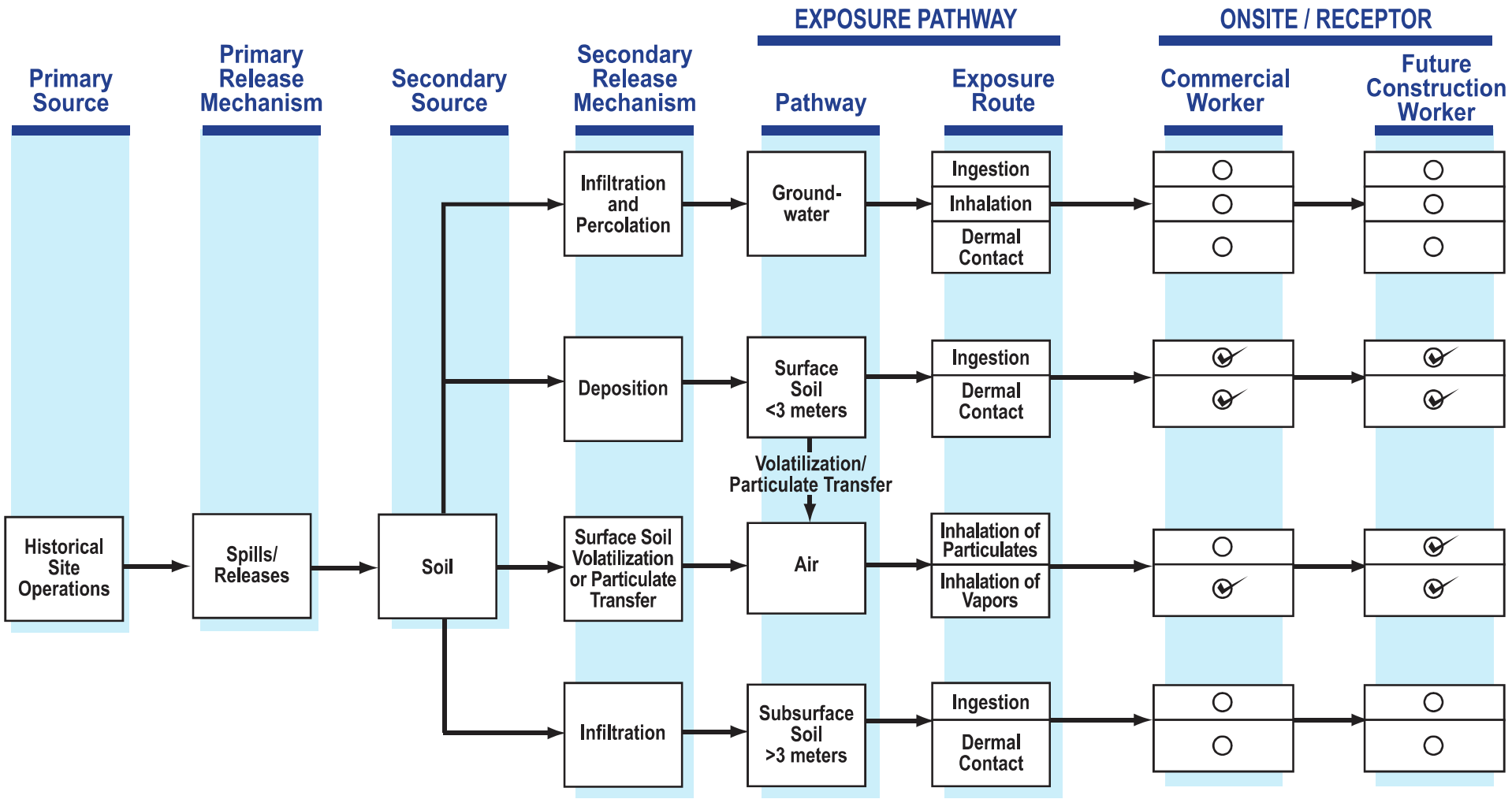
Figure 3-2

SUMMARY OF SOIL GAS ANALYTICAL RESULTS

November 2015

5th Street and Magnolia Street, West Oakland, California

WEST Environmental Services & Technology



○ Incomplete exposure pathway

✓ Complete exposure pathway

Figure 4-1	**EXPOSURE PATHWAY CHART**	WEST Environmental Services & Technology
October 2015	5th Street and Magnolia Street, West Oakland, California	

APPENDIX A

FIELD DATA FORMS AND BORING LOGS

WEST Environmental Services & Technology

BORING NO. W1 | SHEET 1 OF 1

PROJECT NAME: Holliday. West Oakland	DRILLING METHOD: Direct Push
PROJECT LOCATION: 5th & Magnolia Streets	SAMPLING METHOD: Macrocore
DRILLING DATE: September 17, 2015	TOTAL WELL DEPTH (FT): 16
DRILLING COMPANY: ECA	WATER LEVEL AT TIME OF DRILLING (FT): ~14' bgs
LOGGED BY: RLM	STATIC WATER LEVEL (FT): —

WELL CONSTRUCTION	DEPTH (FT)	BLOW COUNTS	CORE INTERVAL (FT)	CORE RECOVERY (FT)	SAMPLE INTERVAL	SAMPLE ID	PID (PPMV)	USCS	SOIL DESCRIPTION
			0-3	0-3		W1-1 @1015	(0.3)		Asphalt
							(0.4)	SW/GW	sandy gravel, SW/GW, 10YR 4/2, dk gray is brown, fine to grand, rounded to angular, slightly damp, no plast, loose (, bits of brick
						W1-3 @1020	(0.3)	SM/SP	conc. gravel silty sand, SM/SP, 10YR 4/3 brown to 4/2 dk grayish brown, fine-grained w/ rare concrete or brick (charcoal) no plast, slightly damp, loose
									concrete chunk
							(0.3)	SM	silty sand, 10YR 4/3, fine-grained, no plast, slightly damp, loose
	5		3-6	3-6		W1-6 @1025			7.5
							(0.4)	SP/SC	clayey sand 10YR 5/4 to 5/6 brown to strong brown, fine-grained, low plast, damp, med. dense
			6-8	6-8				SM	10YR 5/4 slight plast
							(0.3)		
	10		8-12	8-12					moist
								SC/SM	
							(0.3)	SP/SM	v. moist, no plast
									wet
						▽ 14'		SP/SM	
	15		12-16	12-16		W1-16 @1140	(0.2)	SM	10YR 4/3 to 5/3 brown

BOREHOLE DIAMETER (INCHES): 2.25	SLOTTED SCREEN SIZE (INCHES): 0.010	BENTONITE SEAL – WET (FT): FROM — TO —
BOREHOLE DEPTH (FT): 16	SLOTTED SCREEN INTERVAL (FT): FROM 11 TO 16	BENTONITE SEAL – DRY (FT): FROM — TO —
CASING MATERIAL: sch 40 PVC CASING DIAMETER (INCHES): 3/4	SAND SIZE: —	GROUT SEAL (FT): FROM 0 TO 16
BLANK WELL CASING INTERVAL (FT): FROM 0 TO 11	SAND PACK INTERVAL (FT): FROM 11 TO 16	SURFACE WELL COMPLETION: concrete

WEST Environmental Services & Technology

BORING NO. W-2 | SHEET 1 OF 1

PROJECT NAME: Holliday-WestOakland	DRILLING METHOD: Direct Push
PROJECT LOCATION: 5th & Magnolia Streets	SAMPLING METHOD: Macrocore
DRILLING DATE: 9/17/15	TOTAL WELL DEPTH (FT): 18
DRILLING COMPANY: ECA	WATER LEVEL AT TIME OF DRILLING (FT): 11.9
LOGGED BY: RLM	STATIC WATER LEVEL (FT): —

WELL CONSTRUCTION	DEPTH (FT)	BLOW COUNTS	CORE INTERVAL (FT)	CORE RECOVERY (FT)	SAMPLE INTERVAL	SAMPLE ID	PID (PPMV)	USCS	SOIL DESCRIPTION
			0-3	0.3	⊠	W2-1 @0940	(0.3)		asphalt/basecrack
							(0.2)	SW/SM	silty sand, SW/SM, 10YR4/2, fine-grained to coarse & gravel, no plast, slightly damp, loose, occ. to 1/16@2'
							(0.1)		
					⊠	W2-3 @0945	(0.2)	SM	piece of concrete silty sand, SM, 10YR 5/4, yellowish brown, fine-grained, no to slight plast, slightly damp, loose
			2-6	3-6					*10YR4/6 wood
	5						(0.2)		
					⊠	W2-6 @0950	(0.2)	SM/SP	silty sand, SM/SP, 10YR5/4, yellowish brown, fine-grained, no plast, loose to med. dense, moist
			6-10	6-10			(0.3)	SM/SC	fine. fines, slight to low plast
	10								slight plast
			10-13	10-13		▽11.9@ 1555	(0.3)	SM	wet
								SM/SC	saturated, low plast,
			13-16	13-16			(0.4)	SM	slight plast
	15							SP	no plast
			16-18	16-18		W2-18 @1400	(0.3)		

BOREHOLE DIAMETER (INCHES): 2.25	SLOTTED SCREEN SIZE (INCHES): 0.010	BENTONITE SEAL – WET (FT): FROM — TO —
BOREHOLE DEPTH (FT): 18	SLOTTED SCREEN INTERVAL (FT): FROM 13 TO 18	BENTONITE SEAL – DRY (FT): FROM — TO —
CASING MATERIAL: sch 40 PVC CASING DIAMETER (INCHES): 3/4	SAND SIZE: —	GROUT SEAL (FT): FROM 0 TO 18
BLANK WELL CASING INTERVAL (FT): FROM 0 TO 13	SAND PACK INTERVAL (FT): FROM 13 TO 18	SURFACE WELL COMPLETION: concrete

WEST Environmental Services & Technology

BORING NO. W4 | SHEET 1 OF 1

PROJECT NAME: Holliday. West Oakland	DRILLING METHOD: Direct Push
PROJECT LOCATION: 5th & Magnolia Streets, WO	SAMPLING METHOD: Macrocore
DRILLING DATE: 9/17/15	TOTAL WELL DEPTH (FT): 16
DRILLING COMPANY: ECA	WATER LEVEL AT TIME OF DRILLING (FT): 13.2' bgs
LOGGED BY: RLM	STATIC WATER LEVEL (FT): —

WELL CONSTRUCTION	DEPTH (FT)	BLOW COUNTS	CORE INTERVAL (FT)	CORE RECOVERY (FT)	SAMPLE INTERVAL	SAMPLE ID	PID (PPMV)	USCS	SOIL DESCRIPTION
	0		0-4	0-4		W4-1 @1030	(0.3)	Surface	Asphalt
							(0.2)	SM	silty/gravelly sand, sw/sm, 10YR 4/2 dk gray; slt brown to 4/3 brown, fine to coarse/gravel (mostly fine), no plast, loose, slightly damp to dry
						W4-3 @1035	(0.2)	SM	more mottled/variable grainsize, minor clay, color change @ ~2.8 → 10YR 3/1 dk gray w/ wood & charcoal
	4							SM	silty sand, sm, 10YR 3/1, fine-grained, no plast., slightly damp, loose to med. dense
			4.8	4.8		W4-6 @1040	(0.2)	SW/SP	color change 10YR 4/2
								SP	color change 10YR 4/3 brown, damp
	8						(0.2)		moist mottled 10YR 5/3 brown to 7.5YR 5/6 strong brown
			8-12	8-12			(0.2)	SP	wet @ 9.5', 10YR 5/3
								SM	↓ more silt/fines, slight plast
	12								
			12-16	12-16		W4-16 @1110	(0.1)	SP/SM	slight inc. in sand grain size (still fine), slight plast
	16							SP	no plast

BOREHOLE DIAMETER (INCHES): 2-25	SLOTTED SCREEN SIZE (INCHES): 0.010	BENTONITE SEAL – WET (FT): FROM — TO —
BOREHOLE DEPTH (FT): 16	SLOTTED SCREEN INTERVAL (FT): FROM 11 TO 16	BENTONITE SEAL – DRY (FT): FROM — TO —
CASING MATERIAL: Sch 40 PVC CASING DIAMETER (INCHES): 3/4	SAND SIZE: —	GROUT SEAL (FT): FROM 0 TO 16
BLANK WELL CASING INTERVAL (FT): FROM 0 TO 11	SAND PACK INTERVAL (FT): FROM 11 TO 16	SURFACE WELL COMPLETION: concrete

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W1-5

PROJECT NAME:		Holliday. West Oakland
PROJECT LOCATION:		5th & Magnolia Streets, West Oakland
WEATHER:		clear skies, low 70's, WNW wind to 12mph
DATE:		September 17, 2015
SAMPLED BY:		RLM
WELL TYPE, e.g., PERMANENT; TEMPORARY:		Temporary
SAMPLE DATA	SAMPLE ID:	W1-5
	VAPOR PROBE SAMPLE DEPTH (FT):	5
	SUMMA CANISTER ID:	5-231
	FLOW CONTROLLER SERIAL NO.:	—
PURGE VOLUME CALCULATION	BORING/WELL DIAMETER (INCH):	2.25
	DRY BENTONITE INTERVAL (FT)	3.5 to 4.5
	SAND PACK INTERVAL (FT):	4.5 to 6
	TUBING TYPE:	Mylaflow
	TUBING LENGTH (FT):	7
	TUBING ID (INCH):	0.17
	PURGE VOLUME (CC):	417
	PURGE RATE (CC/~~MIN~~):	60 cc
	PURGE TIME 1 WELL VOLUME (~~MIN~~):	7 syringes
	PURGE WELL VOLUMES (CIRCLE)	1 3 7 10
	PURGE TIME (~~MIN~~):	7
SHUT IN/ 10-MINUTE VACUUM TEST	VACUUM HOLD TEST START TIME (24 HR):	1220
	INITIAL CANISTER VACUUM (IN. Hg)	9
	VACUUM HOLD TEST END TIME (24 HR):	1230
	VACUUM HOLD TEST DURATION (MIN):	10
	FINAL CANISTER VACUUM (IN. Hg):	9

PURGE AND SAMPLE TRAIN LEAK TEST	MEASUREMENTS WITHIN SHROUD	TIME (24 HR)	HELIUM (%)		
	PRIOR TO PURGE	1231	28.1		
	DURING PURGE	—	—		
	POST PURGE	1236	20.2		
	MEASUREMENTS FROM SAMPLING TRAIN	TIME (24 HR)	HELIUM (%)	PID (PPMV)	
	PURGE START	1233	0	1.0	0.1
	1 WELL VOLUME	1236	0	0.9	
	3 WELL VOLUMES	—	—	—	
	7 WELL VOLUMES	—	—	—	
	10 WELL VOLUMES	—	—	—	

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W1-5

PROJECT NAME:	Holliday. West Oakland
PROJECT LOCATION:	5th & Magnolia Streets, Oakland
DATE:	September 17, 2015

SAMPLE COLLECTION AND TRACER GAS MONITORING

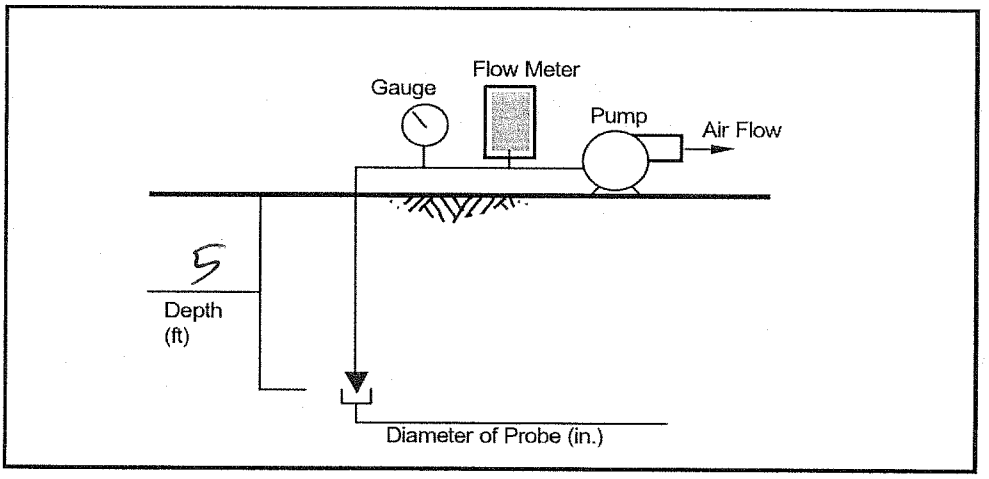
INITIAL CANISTER VACUUM (IN. Hg)	28
TIME CANISTER OPENED (24 HR) S-231	1238

APPLY TRACER GAS WITHIN THE SHROUD

TIME (MINS)	HELIUM (%)	VACUUM (IN. Hg)
2	21.0	20
4	20.2	14
6	20.1	7
28		3
10	—	—
15	—	—
20	—	—
30	—	—
40	—	—
50	—	—
60	—	—

TIME CANISTER CLOSED (24 HR)	1245
FINAL CANISTER PRESSURE (IN. Hg):	3
TOTAL SAMPLE TIME (MINS):	7

INTRINSIC PERMEABILITY TESTING



TEST THRU WELL TUBING/NO MANIFOLD	TEST 1	TEST 2	TEST 3	TEST 4
VACUUM (IN. WATER)	—			
FLOW METER READING	—			
FLOW RATE (CC/MIN)	—			
LENGTH OF TEST (SEC)	—			

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W2-5

PROJECT NAME:	Holliday, West Oakland				
PROJECT LOCATION:	5th & Magnolia streets, Oakland, CA				
WEATHER:	mostly clear skies, high 60's, WNW wind to 12 mph				
DATE:	September 17, 2015				
SAMPLED BY:	RLM				
WELL TYPE, e.g., PERMANENT; TEMPORARY:	Temporary				
SAMPLE DATA	SAMPLE ID:	W2-5			
	VAPOR PROBE SAMPLE DEPTH (FT):	5'			
	SUMMA CANISTER ID:	5-250			
	FLOW CONTROLLER SERIAL NO.:	—			
PURGE VOLUME CALCULATION	BORING/WELL DIAMETER (INCH):	2.25			
	DRY BENTONITE INTERVAL (FT)	3.5 to 4.5			
	SAND PACK INTERVAL (FT):	4.5 to 6			
	TUBING TYPE:	Nylaflow			
	TUBING LENGTH (FT):	7			
	TUBING ID (INCH):	0.17			
	PURGE VOLUME (CC):	417			
	PURGE RATE (CC/~~MIN~~):	60			
	PURGE TIME 1 WELL VOLUME (~~MIN~~):	7 syringes			
	PURGE WELL VOLUMES (CIRCLE)	1	3	7	10
	PURGE TIME (~~MIN~~):	7	—	—	—
SHUT IN/ 10-MINUTE VACUUM TEST	VACUUM HOLD TEST START TIME (24 HR):	1127			
	INITIAL CANISTER VACUUM (IN. Hg)	6			
	VACUUM HOLD TEST END TIME (24 HR):	1137			
	VACUUM HOLD TEST DURATION (MIN):	10			
	FINAL CANISTER VACUUM (IN. Hg):	6			
PURGE AND SAMPLE TRAIN LEAK TEST	MEASUREMENTS WITHIN SHROUD	TIME (24 HR)	HELIUM (%)		
	PRIOR TO PURGE	1137	21.0		
	DURING PURGE	—	—		
	POST PURGE	1142	20.3		
	MEASUREMENTS FROM SAMPLING TRAIN	TIME (24 HR)	HELIUM (%)	PID (PPMV)	
	PURGE START	1139	0	0.5	Bkg 0.1
	1 WELL VOLUME	1141	0	0.2	
	3 WELL VOLUMES	—	—	—	
	7 WELL VOLUMES	—	—	—	
	10 WELL VOLUMES	—	—	—	

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W2-S

PROJECT NAME:	Holliday. West Oakland
PROJECT LOCATION:	5th & Magnolia Streets, Oakland, CA
DATE:	September 17, 2015

SAMPLE COLLECTION AND TRACER GAS MONITORING

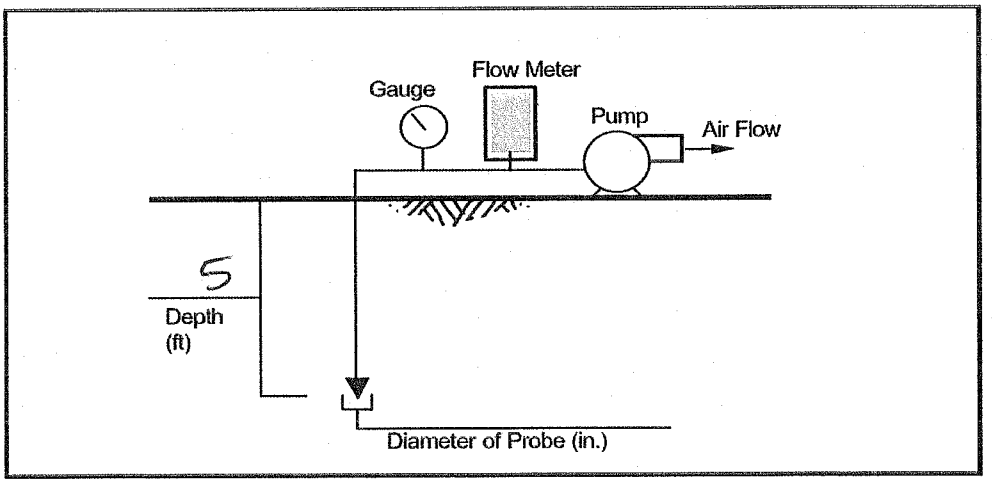
INITIAL CANISTER VACUUM (IN. Hg)	30
TIME CANISTER OPENED (24 HR) S-250	1143

APPLY TRACER GAS WITHIN THE SHROUD

TIME (MINS)	HELIUM (%)	VACUUM (IN. Hg)
2	20.4	23
4	21.1	15
6	22.0	8
8		3
10	—	—
15	—	—
20	—	—
30	—	—
40	—	—
50	—	—
60	—	—

TIME CANISTER CLOSED (24 HR)	1151
FINAL CANISTER PRESSURE (IN. Hg):	3
TOTAL SAMPLE TIME (MINS):	8

INTRINSIC PERMEABILITY TESTING



TEST THRU WELL TUBING/NO MANIFOLD	TEST 1	TEST 2	TEST 3	TEST 4
VACUUM (IN. WATER)	—			
FLOW METER READING	—			
FLOW RATE (CC/MIN)	—			
LENGTH OF TEST (SEC)	—			

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W4-5

PROJECT NAME:	Holliday, West Oakland				
PROJECT LOCATION:	5th & Magnolia Streets, West Oakland				
WEATHER:	clear skies, windy (WNW@12mph) low 70's				
DATE:	September 17, 2015				
SAMPLED BY:	RLM				
WELL TYPE, e.g., PERMANENT; TEMPORARY:	Temporary				
SAMPLE DATA	SAMPLE ID:	W4-5			
	VAPOR PROBE SAMPLE DEPTH (FT):	5			
	SUMMA CANISTER ID:	5-354			
	FLOW CONTROLLER SERIAL NO.:	—			
PURGE VOLUME CALCULATION	BORING/WELL DIAMETER (INCH):	2.25			
	DRY BENTONITE INTERVAL (FT)	3.5 to 4.5			
	SAND PACK INTERVAL (FT):	4.5 to 6			
	TUBING TYPE:	Nylaflow			
	TUBING LENGTH (FT):	7			
	TUBING ID (INCH):	0.17			
	PURGE VOLUME (CC):	417			
	PURGE RATE (CC/MIN):	60			
	PURGE TIME 1 WELL VOLUME (~~MIN~~):	9 syringes			
	PURGE WELL VOLUMES (CIRCLE)	(1)	3	7	10
	PURGE TIME (~~MIN~~):	9	—	—	—
SHUT IN/ 10-MINUTE VACUUM TEST	VACUUM HOLD TEST START TIME (24 HR):	1249			
	INITIAL CANISTER VACUUM (IN. Hg)	10			
	VACUUM HOLD TEST END TIME (24 HR):	1259			
	VACUUM HOLD TEST DURATION (MIN):	10			
	FINAL CANISTER VACUUM (IN. Hg):	10			
PURGE AND SAMPLE TRAIN LEAK TEST	MEASUREMENTS WITHIN SHROUD	TIME (24 HR)	HELIUM (%)		
	PRIOR TO PURGE	1300	26.1		
	DURING PURGE	—	—		
	POST PURGE	1303	22.2		
	MEASUREMENTS FROM SAMPLING TRAIN	TIME (24 HR)	HELIUM (%)	PID (PPMV)	
	PURGE START	1301	0	0.4	0.1
	1 WELL VOLUME	1303	0	0.3	
	3 WELL VOLUMES	—	—	—	
	7 WELL VOLUMES	—	—	—	
	10 WELL VOLUMES	—	—	—	

WEST
Environmental Services & Technology

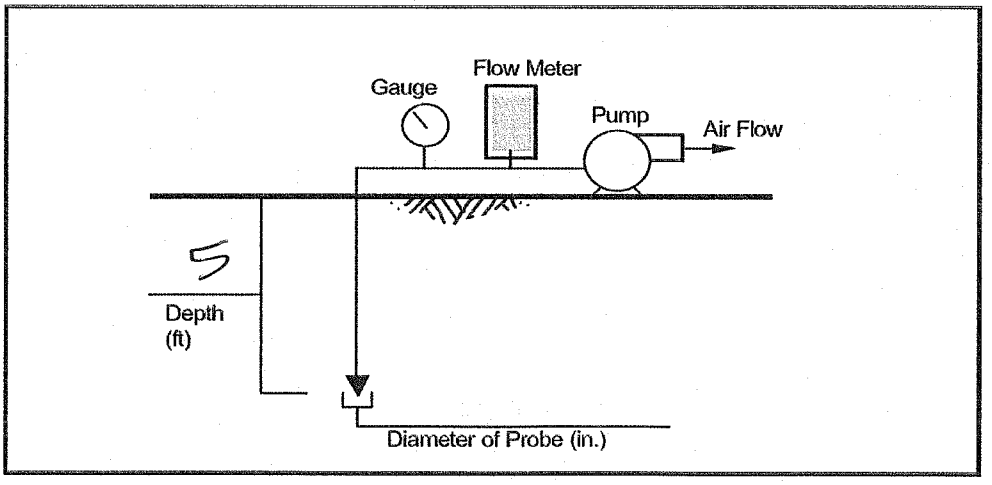
SOIL VAPOR SAMPLING LOG, SAMPLE ID: W4-5

PROJECT NAME:	Holliday. West Oakland
PROJECT LOCATION:	5th & Magnolia streets, West Oakland
DATE:	September 17, 2015

SAMPLE COLLECTION AND TRACER GAS MONITORING

INITIAL CANISTER VACUUM (IN. Hg)	30			
TIME CANISTER OPENED (24 HR) 5-354	1304			
APPLY TRACER GAS WITHIN THE SHROUD	TIME (MINS)	HELIUM (%)	VACUUM (IN. Hg)	
	2	21.0	22	
	4	21.8	14	
	6	20.3	7	
	7.8		3	
	10	—	—	
	15	—	—	
	20	—	—	
	30	—	—	
	40	—	—	
	50	—	—	
	60	—	—	
TIME CANISTER CLOSED (24 HR)	1311			
FINAL CANISTER PRESSURE (IN. Hg):	3			
TOTAL SAMPLE TIME (MINS):	7			

INTRINSIC PERMEABILITY TESTING



TEST THRU WELL TUBING/NO MANIFOLD	TEST 1	TEST 2	TEST 3	TEST 4
VACUUM (IN. WATER)	—			
FLOW METER READING	—			
FLOW RATE (CC/MIN)	—			
LENGTH OF TEST (SEC)	—			

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W7-5

PROJECT NAME:	Holliday, West Oakland				
PROJECT LOCATION:	5th and Magnolia Streets, West Oakland				
WEATHER:	clear skies, high 60's/low 70's, WNW @ 12mph				
DATE:	September 17, 2015				
SAMPLED BY:	RLM				
WELL TYPE, e.g., PERMANENT; TEMPORARY:	Temporary				
SAMPLE DATA	SAMPLE ID:	W7-5			
	VAPOR PROBE SAMPLE DEPTH (FT):	5			
	SUMMA CANISTER ID:	5-255			
	FLOW CONTROLLER SERIAL NO.:	—			
PURGE VOLUME CALCULATION	BORING/WELL DIAMETER (INCH):	2.25			
	DRY BENTONITE INTERVAL (FT)	3.5 to 4.5			
	SAND PACK INTERVAL (FT):	4.5 to 6			
	TUBING TYPE:	Nylaflow			
	TUBING LENGTH (FT):	7			
	TUBING ID (INCH):	0.17			
	PURGE VOLUME (CC):	417			
	PURGE RATE (CC/~~MIN~~):	60			
	PURGE TIME 1 WELL VOLUME (~~MIN~~):	7 syringes			
	PURGE WELL VOLUMES (CIRCLE)	(1)	3	7	10
	PURGE TIME (~~MIN~~):	7	—	—	—
SHUT IN/ 10-MINUTE VACUUM TEST	VACUUM HOLD TEST START TIME (24 HR):	1155			
	INITIAL CANISTER VACUUM (IN. Hg)	10			
	VACUUM HOLD TEST END TIME (24 HR):	1205			
	VACUUM HOLD TEST DURATION (MIN):	10			
	FINAL CANISTER VACUUM (IN. Hg):	10			
PURGE AND SAMPLE TRAIN LEAK TEST	MEASUREMENTS WITHIN SHROUD	TIME (24 HR)	HELIUM (%)		
	PRIOR TO PURGE	1206	24.4		
	DURING PURGE	—	—		
	POST PURGE	1209	20.9		
	MEASUREMENTS FROM SAMPLING TRAIN	TIME (24 HR)	HELIUM (%)	PID (PPMV)	
	PURGE START	1207	0	0.2	0.1
	1 WELL VOLUME	1209	0	0.2	
	3 WELL VOLUMES	—	—	—	
	7 WELL VOLUMES	—	—	—	
	10 WELL VOLUMES	—	—	—	

WEST
Environmental Services & Technology

SOIL VAPOR SAMPLING LOG, SAMPLE ID: W7-5

PROJECT NAME:	Holliday, West Oakland
PROJECT LOCATION:	5th & Magnolia Streets, West Oakland
DATE:	September 17, 2015

SAMPLE COLLECTION AND TRACER GAS MONITORING

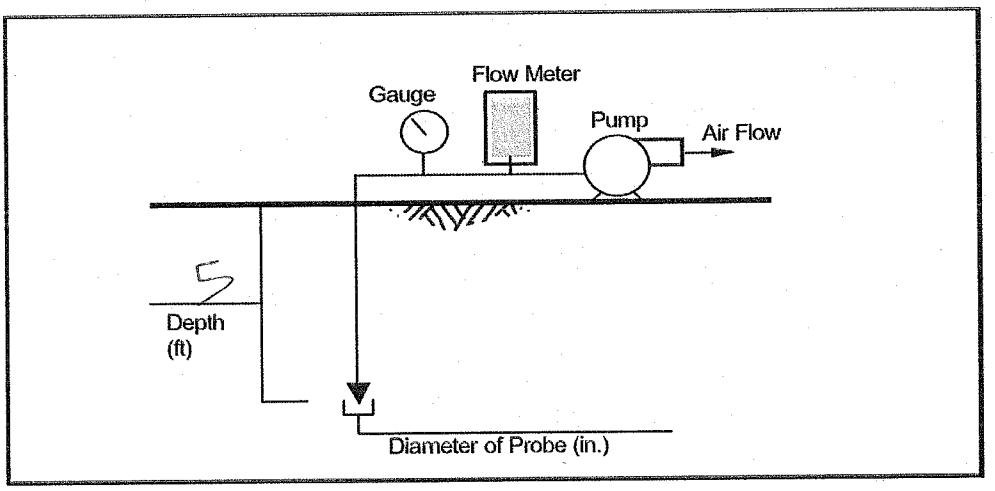
INITIAL CANISTER VACUUM (IN. Hg)	30
TIME CANISTER OPENED (24 HR) S-255	1210

APPLY TRACER GAS WITHIN THE SHROUD

TIME (MINS)	HELIUM (%)	VACUUM (IN. Hg)
2	21.8	23
4	20.7	15
6	21.2	8
8	20.4	2
10	—	—
15	—	—
20	—	—
30	—	—
40	—	—
50	—	—
60	—	—

TIME CANISTER CLOSED (24 HR)	1218
FINAL CANISTER PRESSURE (IN. Hg):	2
TOTAL SAMPLE TIME (MINS):	8

INTRINSIC PERMEABILITY TESTING



TEST THRU WELL TUBING/NO MANIFOLD	TEST 1	TEST 2	TEST 3	TEST 4
VACUUM (IN. WATER)	—			
FLOW METER READING	—			
FLOW RATE (CC/MIN)	—			
LENGTH OF TEST (SEC)	—			

APPENDIX B

LABORATORY DATA CERTIFICATES AND

CHAIN-OF-CUSTODY FORMS

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 9/25/2015

TO: MR. PETER MORRIS
WEST ENVIRONMENTAL S&T
711 GRAND AVENUE, SUITE 220
SAN RAFAEL, CA 94901

Phone: 415-460-6770
Fax: 415-460-6771
Email: main@westenvironmental.com

ACCT: 9946
PROJ: HOLLIDAY.WEST OAKLAND

FROM: Richard A. Kagel, Ph.D.
Laboratory Director RAK by dlh 09/25/2015

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT HOLLIDAY.WEST OAKLAND

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
W1-1	SOIL	9/17/2015	10:15	136818
W1-3	SOIL	9/17/2015	10:20	136819
W1-6	SOIL	9/17/2015	10:25	136820
W2-1	SOIL	9/17/2015	9:40	136821
W2-3	SOIL	9/17/2015	9:45	136822
W2-6	SOIL	9/17/2015	9:50	136823
W3-1	SOIL	9/17/2015	15:35	136824
W3-3	SOIL	9/17/2015	15:40	136825
W3-6	SOIL	9/17/2015	15:45	136826
W4-1	SOIL	9/17/2015	10:30	136827
W4-3	SOIL	9/17/2015	10:35	136828
W4-6	SOIL	9/17/2015	10:40	136829
W5-1	SOIL	9/17/2015	15:20	136830
W5-3	SOIL	9/17/2015	15:25	136831
W5-6	SOIL	9/17/2015	15:30	136832
W6-1	SOIL	9/17/2015	14:50	136833
W6-3	SOIL	9/17/2015	14:55	136834
W6-6	SOIL	9/17/2015	15:00	136835
W7-1	SOIL	9/17/2015	9:55	136836
W7-3	SOIL	9/17/2015	10:00	136837
W7-6	SOIL	9/17/2015	10:05	136838
W8-1	SOIL	9/17/2015	15:05	136839
W8-3	SOIL	9/17/2015	15:10	136840
W8-6	SOIL	9/17/2015	15:15	136841

The above listed sample group was received on 9/18/2015 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W1-1
LAB NO: 136818
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 10:15
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	ND
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	71
DCBP	71

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W2-1
LAB NO: 136821
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 9:40
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	17.6
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	82
DCBP	72

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W3-1
LAB NO: 136824
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:35
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	ND
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	89
DCBP	74

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W4-1
LAB NO: 136827
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 10:30
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	15.2
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	88
DCBP	80

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: CH
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W5-1
LAB NO: 136830
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:20
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	7.54
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	ND
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	90
DCBP	86

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: CW
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W6-1
LAB NO: 136833
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 14:50
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	15.8
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	84
DCBP	67

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: CW
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W7-1
LAB NO: 136836
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 9:55
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	15.3
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	80
DCBP	64

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: MN
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W8-1
LAB NO: 136839
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:05
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	18.4
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	86
DCBP	63

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: CN
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W1-1
LAB NO: 136818
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 10:15
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	9.42
ANTHRACENE	120-12-7	2.50	5.46
BENZO (A) ANTHRACENE	56-55-3	2.50	14.8
BENZO (B) FLUORANTHENE	205-99-2	2.50	80.0
BENZO (K) FLUORANTHENE	207-08-9	2.50	15.6
BENZO (A) PYRENE	50-32-8	2.50	47.1
BENZO (G,H,I) PERYLENE	191-24-2	10.0	209
CHRYSENE	218-01-9	2.50	53.4
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	36.5
FLUORANTHENE	206-44-0	2.50	8.07
FLUORENE	86-73-7	2.50	ND
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	41.8
NAPHTHALENE	91-20-3	2.50	14.0
PHENANTHRENE	85-01-8	2.50	19.3
PYRENE	129-00-0	2.50	29.5

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	96
P-TERPHENYL-D14	95

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: CM
DATE: 09/25/2015

K PRIME, INC.

LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W2-1
LAB NO: 136821
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 9:40
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	14.8
ANTHRACENE	120-12-7	2.50	10.1
BENZO (A) ANTHRACENE	56-55-3	2.50	55.1
BENZO (B) FLUORANTHENE	205-99-2	2.50	132
BENZO (K) FLUORANTHENE	207-08-9	2.50	35.8
BENZO (A) PYRENE	50-32-8	2.50	99.8
BENZO (G,H,I) PERYLENE	191-24-2	10.0	255
CHRYSENE	218-01-9	2.50	79.6
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	59.3
FLUORANTHENE	206-44-0	2.50	31.5
FLUORENE	86-73-7	2.50	ND
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	103
NAPHTHALENE	91-20-3	2.50	26.2
PHENANTHRENE	85-01-8	2.50	36.0
PYRENE	129-00-0	2.50	97.1

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	94
P-TERPHENYL-D14	93

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W3-1
LAB NO: 136824
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:35
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	11.3
ANTHRACENE	120-12-7	2.50	6.73
BENZO (A) ANTHRACENE	56-55-3	2.50	26.0
BENZO (B) FLUORANTHENE	205-99-2	2.50	176
BENZO (K) FLUORANTHENE	207-08-9	2.50	27.0
BENZO (A) PYRENE	50-32-8	2.50	87.4
BENZO (G,H,I) PERYLENE	191-24-2	10.0	240
CHRYSENE	218-01-9	2.50	130
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	98.1
FLUORANTHENE	206-44-0	2.50	14.4
FLUORENE	86-73-7	2.50	23.0
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	87.3
NAPHTHALENE	91-20-3	2.50	12.3
PHENANTHRENE	85-01-8	2.50	49.2
PYRENE	129-00-0	2.50	101

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	97
P-TERPHENYL-D14	100

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: _____
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W4-1
LAB NO: 136827
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 10:30
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	32.0
ANTHRACENE	120-12-7	2.50	25.9
BENZO (A) ANTHRACENE	56-55-3	2.50	105
BENZO (B) FLUORANTHENE	205-99-2	2.50	178
BENZO (K) FLUORANTHENE	207-08-9	2.50	60.7
BENZO (A) PYRENE	50-32-8	2.50	119
BENZO (G,H,I) PERYLENE	191-24-2	10.0	287
CHRYSENE	218-01-9	2.50	91.9
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	70.6
FLUORANTHENE	206-44-0	2.50	87.0
FLUORENE	86-73-7	2.50	28.2
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	107
NAPHTHALENE	91-20-3	2.50	13.9
PHENANTHRENE	85-01-8	2.50	129
PYRENE	129-00-0	2.50	184

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	93
P-TERPHENYL-D14	98

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: CW
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W5-1
LAB NO: 136830
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:20
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	20.3
ANTHRACENE	120-12-7	2.50	18.3
BENZO (A) ANTHRACENE	56-55-3	2.50	67.5
BENZO (B) FLUORANTHENE	205-99-2	2.50	130
BENZO (K) FLUORANTHENE	207-08-9	2.50	47.2
BENZO (A) PYRENE	50-32-8	2.50	81.5
BENZO (G,H,I) PERYLENE	191-24-2	10.0	159
CHRYSENE	218-01-9	2.50	75.9
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	26.0
FLUORANTHENE	206-44-0	2.50	74.0
FLUORENE	86-73-7	2.50	ND
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	99.6
NAPHTHALENE	91-20-3	2.50	11.4
PHENANTHRENE	85-01-8	2.50	49.7
PYRENE	129-00-0	2.50	127

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	94
P-TERPHENYL-D14	88

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: CN
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W6-1
LAB NO: 136833
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 14:50
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	17.7
ANTHRACENE	120-12-7	2.50	9.44
BENZO (A) ANTHRACENE	56-55-3	2.50	36.9
BENZO (B) FLUORANTHENE	205-99-2	2.50	74.5
BENZO (K) FLUORANTHENE	207-08-9	2.50	28.3
BENZO (A) PYRENE	50-32-8	2.50	44.4
BENZO (G,H,I) PERYLENE	191-24-2	10.0	226
CHRYSENE	218-01-9	2.50	40.5
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	430
FLUORANTHENE	206-44-0	2.50	28.2
FLUORENE	86-73-7	2.50	19.5
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	59.2
NAPHTHALENE	91-20-3	2.50	11.7
PHENANTHRENE	85-01-8	2.50	38.3
PYRENE	129-00-0	2.50	72.6

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	91
P-TERPHENYL-D14	98

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W7-1
LAB NO: 136836
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 9:55
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	18.8
ANTHRACENE	120-12-7	2.50	15.7
BENZO (A) ANTHRACENE	56-55-3	2.50	61.2
BENZO (B) FLUORANTHENE	205-99-2	2.50	187
BENZO (K) FLUORANTHENE	207-08-9	2.50	45.2
BENZO (A) PYRENE	50-32-8	2.50	111
BENZO (G,H,I) PERYLENE	191-24-2	10.0	264
CHRYSENE	218-01-9	2.50	97.2
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	77.3
FLUORANTHENE	206-44-0	2.50	50.7
FLUORENE	86-73-7	2.50	9.02
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	120
NAPHTHALENE	91-20-3	2.50	13.5
PHENANTHRENE	85-01-8	2.50	84.2
PYRENE	129-00-0	2.50	144

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	96
P-TERPHENYL-D14	85

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE ID: W8-1
LAB NO: 136839
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:05
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/23/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NUMBER	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	13.9
ANTHRACENE	120-12-7	2.50	6.45
BENZO (A) ANTHRACENE	56-55-3	2.50	41.7
BENZO (B) FLUORANTHENE	205-99-2	2.50	134
BENZO (K) FLUORANTHENE	207-08-9	2.50	38.5
BENZO (A) PYRENE	50-32-8	2.50	75.2
BENZO (G,H,I) PERYLENE	191-24-2	10.0	234
CHRYSENE	218-01-9	2.50	80.1
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	73.1
FLUORANTHENE	206-44-0	2.50	17.1
FLUORENE	86-73-7	2.50	13.0
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	99.7
NAPHTHALENE	91-20-3	2.50	23.6
PHENANTHRENE	85-01-8	2.50	30.9
PYRENE	129-00-0	2.50	48.4

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	97
P-TERPHENYL-D14	91

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL ARSENIC
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE TYPE: SOIL
UNITS: mg/Kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
W1-1	136818	092115S1	09/17/2015	09/22/2015	2.50	3.58
W1-3	136819	092115S1	09/17/2015	09/22/2015	2.50	ND
W1-6	136820	092115S1	09/17/2015	09/22/2015	2.50	ND
W2-1	136821	092115S1	09/17/2015	09/22/2015	2.50	7.21
W2-6	136823	092115S1	09/17/2015	09/22/2015	2.50	ND
W3-3	136825	092115S1	09/17/2015	09/22/2015	2.50	ND
W3-6	136826	092115S1	09/17/2015	09/22/2015	2.50	ND
W4-1	136827	092115S1	09/17/2015	09/22/2015	2.50	3.54
W4-6	136829	092115S1	09/17/2015	09/22/2015	2.50	ND
W5-1	136830	092115S1	09/17/2015	09/22/2015	2.50	5.60
W5-3	136831	092115S1	09/17/2015	09/22/2015	2.50	ND
W5-6	136832	092115S1	09/17/2015	09/22/2015	2.50	ND
W6-1	136833	092115S1	09/17/2015	09/22/2015	2.50	4.34
W6-3	136834	092115S1	09/17/2015	09/22/2015	2.50	4.36
W7-1	136836	092115S1	09/17/2015	09/22/2015	2.50	4.90
W7-3	136837	092115S1	09/17/2015	09/22/2015	2.50	2.50
W7-6	136838	092115S1	09/17/2015	09/22/2015	2.50	2.64
W8-1	136839	092115S1	09/17/2015	09/22/2015	2.50	3.28
W8-3	136840	092115S1	09/17/2015	09/22/2015	2.50	2.76
W8-6	136841	092115S1	09/17/2015	09/22/2015	2.50	2.93

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: _____

DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

METHOD: TOTAL LEAD
REFERENCE: EPA 3050B/6020A

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

SAMPLE TYPE: SOIL
UNITS: mg/Kg

SAMPLE ID	LAB ID	BATCH #	DATE SAMPLED	DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
W1-1	136818	092115S1	09/17/2015	09/22/2015	2.50	25.9
W1-3	136819	092115S1	09/17/2015	09/22/2015	2.50	119
W1-6	136820	092115S1	09/17/2015	09/22/2015	2.50	3.45
W2-1	136821	092115S1	09/17/2015	09/22/2015	2.50	36.4
W2-6	136823	092115S1	09/17/2015	09/22/2015	2.50	ND
W3-3	136825	092115S1	09/17/2015	09/22/2015	2.50	169
W3-6	136826	092115S1	09/17/2015	09/22/2015	2.50	1360
W4-1	136827	092115S1	09/17/2015	09/22/2015	2.50	24.7
W4-6	136829	092115S1	09/17/2015	09/22/2015	2.50	ND
W5-1	136830	092115S1	09/17/2015	09/22/2015	2.50	510
W5-3	136831	092115S1	09/17/2015	09/22/2015	2.50	50.2
W5-6	136832	092115S1	09/17/2015	09/22/2015	2.50	ND
W6-1	136833	092115S1	09/17/2015	09/22/2015	2.50	25.5
W6-3	136834	092115S1	09/17/2015	09/22/2015	2.50	316
W7-1	136836	092115S1	09/17/2015	09/22/2015	2.50	18.9
W7-3	136837	092115S1	09/17/2015	09/22/2015	2.50	199
W7-6	136838	092115S1	09/17/2015	09/22/2015	2.50	2.87
W8-1	136839	092115S1	09/17/2015	09/22/2015	2.50	20.1
W8-3	136840	092115S1	09/17/2015	09/22/2015	2.50	174
W8-6	136841	092115S1	09/17/2015	09/22/2015	2.50	3.58

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: CW

DATE: 09/25/2015

K PRIME, INC.

LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE ID: W2-3
LAB NO: 136822
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 9:45
BATCH ID: 090915S1

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT NAME		DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
ANTIMONY	Sb	09/23/2015	2.50	ND
ARSENIC	As	09/23/2015	2.50	6.91
BARIUM	Ba	09/23/2015	2.50	1790
BERYLLIUM	Be	09/23/2015	2.50	ND
CADMIUM	Cd	09/23/2015	2.50	ND
CHROMIUM	Cr	09/23/2015	2.50	25.6
COBALT	Co	09/23/2015	2.50	3.92
COPPER	Cu	09/23/2015	2.50	37.7
LEAD	Pb	09/23/2015	2.50	661
MERCURY	Hg	09/23/2015	0.100	0.380
MOLYBDENUM	Mo	09/23/2015	2.50	ND
NICKEL	Ni	09/23/2015	2.50	20.0
SELENIUM	Se	09/23/2015	2.50	ND
SILVER	Ag	09/23/2015	2.50	ND
THALLIUM	Tl	09/23/2015	2.50	ND
VANADIUM	V	09/23/2015	2.50	28.5
ZINC	Zn	09/23/2015	2.50	688

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE ID: W3-1
LAB NO: 136824
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:35
BATCH ID: 090915S1

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT NAME		DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
ANTIMONY	Sb	09/23/2015	2.50	ND
ARSENIC	As	09/23/2015	2.50	2.61
BARIUM	Ba	09/23/2015	2.50	99.1
BERYLLIUM	Be	09/23/2015	2.50	ND
CADMIUM	Cd	09/23/2015	2.50	ND
CHROMIUM	Cr	09/23/2015	2.50	23.1
COBALT	Co	09/23/2015	2.50	8.18
COPPER	Cu	09/23/2015	2.50	40.1
LEAD	Pb	09/23/2015	2.50	19.6
MERCURY	Hg	09/23/2015	0.100	0.127
MOLYBDENUM	Mo	09/23/2015	2.50	ND
NICKEL	Ni	09/23/2015	2.50	27.8
SELENIUM	Se	09/23/2015	2.50	ND
SILVER	Ag	09/23/2015	2.50	ND
THALLIUM	Tl	09/23/2015	2.50	ND
VANADIUM	V	09/23/2015	2.50	43.2
ZINC	Zn	09/23/2015	2.50	87.1

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: [signature]
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE ID: W4-3
LAB NO: 136828
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 10:35
BATCH ID: 090915S1

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT NAME		DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
ANTIMONY	Sb	09/23/2015	2.50	ND
ARSENIC	As	09/23/2015	2.50	7.17
BARIUM	Ba	09/23/2015	2.50	990
BERYLLIUM	Be	09/23/2015	2.50	ND
CADMIUM	Cd	09/23/2015	2.50	ND
CHROMIUM	Cr	09/23/2015	2.50	29.9
COBALT	Co	09/23/2015	2.50	6.35
COPPER	Cu	09/23/2015	2.50	43.4
LEAD	Pb	09/23/2015	2.50	2180
MERCURY	Hg	09/23/2015	0.100	0.344
MOLYBDENUM	Mo	09/23/2015	2.50	ND
NICKEL	Ni	09/23/2015	2.50	34.5
SELENIUM	Se	09/23/2015	2.50	ND
SILVER	Ag	09/23/2015	2.50	ND
THALLIUM	Tl	09/23/2015	2.50	ND
VANADIUM	V	09/23/2015	2.50	26.7
ZINC	Zn	09/23/2015	2.50	701

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: JW
DATE: 09/25/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE ID: W6-6
LAB NO: 136835
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 15:00
BATCH ID: 090915S1

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT NAME		DATE ANALYZED	REPORTING LIMIT	SAMPLE CONC
ANTIMONY	Sb	09/23/2015	2.50	ND
ARSENIC	As	09/23/2015	2.50	ND
BARIUM	Ba	09/23/2015	2.50	36.1
BERYLLIUM	Be	09/23/2015	2.50	ND
CADMIUM	Cd	09/23/2015	2.50	ND
CHROMIUM	Cr	09/23/2015	2.50	22.3
COBALT	Co	09/23/2015	2.50	ND
COPPER	Cu	09/23/2015	2.50	4.04
LEAD	Pb	09/23/2015	2.50	7.87
MERCURY	Hg	09/23/2015	0.100	ND
MOLYBDENUM	Mo	09/23/2015	2.50	ND
NICKEL	Ni	09/23/2015	2.50	11.9
SELENIUM	Se	09/23/2015	2.50	ND
SILVER	Ag	09/23/2015	2.50	ND
THALLIUM	Tl	09/23/2015	2.50	ND
VANADIUM	V	09/23/2015	2.50	15.6
ZINC	Zn	09/23/2015	2.50	12.8

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

APPROVED BY: JCW
DATE: 09/25/2015

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B092115S1
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/22/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ALPHA-BHC	319-84-6	2.50	ND
BETA-BHC	319-85-7	2.50	ND
GAMMA-BHC (LINDANE)	58-89-9	2.50	ND
HEPTACHLOR	76-44-8	2.50	ND
DELTA-BHC	319-86-8	2.50	ND
ALDRIN	309-00-2	2.50	ND
HEPTACHLOR EPOXIDE	1024-57-3	2.50	ND
ENDOSULFAN I	959-98-8	2.50	ND
4,4'-DDE	72-55-9	5.00	ND
DIELDRIN	60-57-1	5.00	ND
ENDRIN	72-20-8	5.00	ND
4,4'-DDD	72-54-8	5.00	ND
ENDOSULFAN II	33212-65-9	5.00	ND
4,4'-DDT	50-29-3	5.00	ND
ENDRIN ALDEHYDE	7421-93-4	5.00	ND
ENDOSULFAN SULFATE	1031-07-8	5.00	ND
METHOXYCHLOR	72-43-5	12.5	ND
CHLORDANE	57-74-9	12.5	ND
TOXAPHENE	8001-35-2	62.5	ND

SURROGATE RECOVERY	%
TCMX	103
DCBP	95

NOTES:
ND - NOT DETECTED ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.
LABORATORY QC REPORT

SAMPLE ID: L092115S1
DUPLICATE ID: D092115S1
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/22/2015

METHOD: ORGANOCHLORINE PESTICIDES
REFERENCE: EPA 3550/8081

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	125	ND	121	97	50-150
HEPTACHLOR	125	ND	151	121	50-150
ALDRIN	125	ND	137	110	50-150
DIELDRIN	125	ND	145	116	50-150
ENDRIN	125	ND	142	113	50-150
DDT	125	ND	178	142	50-150

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
GAMMA-BHC (LINDANE)	2.50	121	133	8.9	±40
HEPTACHLOR	2.50	151	142	6.5	±40
ALDRIN	2.50	137	159	14.7	±40
DIELDRIN	5.00	145	144	0.1	±40
ENDRIN	5.00	142	138	2.7	±40
DDT	5.00	178	176	1.0	±40

K PRIME, INC.
LABORATORY QC REPORT

METHOD BLANK ID: B092115S1
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/22/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
ACENAPHTHENE	83-32-9	2.50	ND
ACENAPHTHYLENE	208-96-8	2.50	ND
ANTHRACENE	120-12-7	2.50	ND
BENZO (A) ANTHRACENE	56-55-3	2.50	ND
BENZO (B) FLUORANTHENE	205-99-2	2.50	ND
BENZO (K) FLUORANTHENE	207-08-9	2.50	ND
BENZO (A) PYRENE	50-32-8	2.50	ND
BENZO (G,H,I) PERYLENE	191-24-2	10.0	ND
CHRYSENE	218-01-9	2.50	ND
DIBENZO (A,H) ANTHRACENE	53-70-3	10.0	ND
FLUORANTHENE	206-44-0	2.50	ND
FLUORENE	86-73-7	2.50	ND
INDENO (1,2,3-CD) PYRENE	193-39-5	10.0	ND
NAPHTHALENE	91-20-3	2.50	ND
PHENANTHRENE	85-01-8	2.50	ND
PYRENE	129-00-0	2.50	ND

SURROGATE RECOVERY	%
2-FLUOROBIPHENYL	103
P-TERPHENYL-D14	104

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

K PRIME, INC.
LABORATORY QC REPORT

SAMPLE ID: L092115S1
DUPLICATE ID: D092115S1
BATCH #: 092115S1
DATE EXTRACTED: 09/21/2015
DATE ANALYZED: 09/22/2015

METHOD: SEMIVOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 3550/8270-SIM

SAMPLE TYPE: SOIL
UNITS: ug/Kg

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
ACENAPHTHENE	100	ND	98.5	99	40-140
PYRENE	100	ND	95.9	96	40-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
ACENAPHTHENE	2.50	98.5	99.0	0.4	±30
PYRENE	2.50	95.9	102	6.1	±30

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L092115S1
DUPLICATE ID: D092115S1
METHOD BLANK ID: B092115S1
BATCH #: 092115S1
DATE ANALYZED: 09/22/2015

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT		MB mg/Kg	SA mg/Kg	SR mg/Kg	SP mg/Kg	SPD mg/Kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	0.0	23.9	24.2	96	1.1
LEAD	Pb	<2.50	25.0	0.0	24.6	24.9	99	1.2

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: MS136819
DUPLICATE ID: SD136819
METHOD BLANK ID: B092115S1
BATCH #: 092115S1
DATE ANALYZED: 09/22/2015

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT		MB mg/Kg	SA mg/Kg	SR mg/Kg	SP mg/Kg	SPD mg/Kg	SP %R	RPD %
ARSENIC	As	<2.50	25.0	2.25	25.3	25.4	92	0.3
LEAD	Pb	<2.50	25.0	119	141	139	87	1.6

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE

K PRIME, INC.

LABORATORY BATCH QC REPORT

SAMPLE ID: L090915S1
DUPLICATE ID: D090915S1
METHOD BLANK ID: B092115S2
BATCH #: 090915S1
DATE ANALYZED: 09/11/2015

METHOD: TOTAL METALS BY ICP/MS
REFERENCE: EPA 3050B/6020A

SAMPLE TYPE: SOIL
UNITS: mg/Kg

ELEMENT		MB mg/Kg	SA mg/Kg	SR mg/Kg	SP mg/Kg	SPD mg/Kg	SP %R	RPD %
ANTIMONY	Sb	<2.50	25.0	0.0	25.6	25.1	102	2.1
ARSENIC	As	<2.50	25.0	0.0	23.9	23.7	96	1.2
BARIUM	Ba	<2.50	25.0	0.0	25.0	24.5	100	1.9
BERYLLIUM	Be	<2.50	25.0	0.0	23.5	23.4	94	0.6
CADMIUM	Cd	<2.50	25.0	0.0	24.5	24.1	98	1.9
CHROMIUM	Cr	<2.50	25.0	0.0	24.3	23.5	97	3.1
COBALT	Co	<2.50	25.0	0.0	23.4	22.8	94	2.7
COPPER	Cu	<2.50	25.0	0.0	23.5	22.6	94	3.8
LEAD	Pb	<2.50	25.0	0.0	25.5	25.2	102	1.1
MERCURY	Hg	<0.100	1.00	0.0	0.987	0.958	99	3.0
MOLYBDENUM	Mo	<2.50	25.0	0.0	24.3	23.6	97	2.9
NICKEL	Ni	<2.50	25.0	0.0	23.6	23.0	94	2.6
SELENIUM	Se	<2.50	25.0	0.0	25.1	24.9	100	0.8
SILVER	Ag	<2.50	12.5	0.0	10.7	10.9	86	1.1
THALLIUM	Tl	<2.50	25.0	0.0	25.2	25.0	101	1.0
VANADIUM	V	<2.50	25.0	0.0	24.1	23.6	97	2.3
ZINC	Zn	<2.50	25.0	0.0	23.3	23.0	93	1.6

NOTES:
ND: NOT DETECTED
MB: METHOD BLANK
SA: SPIKE ADDED
SR: SAMPLE RESULT
SP: SPIKE RESULT
SPD: SPIKE DUPLICATE RESULT
SP(%R): SPIKE % RECOVERY
RPD: RELATIVE PERCENT DIFFERENCE

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

9946

SAMPLE ANALYSIS/COMPOSITE REQUEST FORM

CHAIN-OF-CUSTODY

Invoice to: WEST, Inc.	Date: 9/18/15 Page 1 of 2
Project: Holliday.West Oakland	Location: 5th & Magnolia Streets, West Oakland
Project Manager: Peter Morris, WEST, Inc.	Phone: 415/460-6770 Fax: 415/460-6771
Laboratory: KPrime, Inc, Santa Rosa, CA	Turnaround time (days): 1 2 3 5 7 10 Std. X
Sampler Signature:	Analyses Requested

Sample ID	KPI #	Date	Time	Type	# Containers	Composite	Pesticides (8081A)	PAHs (8270C)	Arsenic, Lead (6020)	Title 22 Metals (6000/7000)	VOCs (8260B)	TPHg/TPHd (8015M)*						HOLD
W1-1	136818	9/17/15	1015	S	1	—	X	X	X									
W1-3	136819	↑	1020	S	1	—			X									
W1-6	136820		1025	S	1	—			X									
W2-1	136821		0940	S	1	—	X	X	X									
W2-3	136822		0945	S	1	—				X								
W2-6	136823		0950	S	1	—			X									
W3-1	136824		1535	S	1	—	X	X		X								
W3-3	136825		1540	S	1	—			X									
W3-6	136826		1545	S	1	—			X									
W4-1	136827		1030	S	1	—	X	X	X									
W4-3	136828		1035	S	1	—				X								
W4-6	136829	9/17/15 ↓	1040	S	1	—			X									

NOTES: *silica gel cleanup for TPHd

☐ EDF Log Code: WESS

Global ID: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	9/18/15 08:56	Ben Browning	9/18/15 08:56
Ben Browning	9/18/15 09:50		9/18/15 09:50

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

9946

SAMPLE ANALYSIS/COMPOSITE REQUEST FORM

CHAIN-OF-CUSTODY

Invoice to: WEST, Inc.	Date: 9/18/15 Page 2 of 2
Project: Holliday.West Oakland	Location: 5th & Magnolia Streets, West Oakland
Project Manager: Peter Morris, WEST, Inc.	Phone: 415/460-6770 Fax: 415/460-6771
Laboratory: KPrime, Inc, Santa Rosa, CA	Turnaround time (days): 1 2 3 5 7 10 Std. X
Sampler Signature:	Analyses Requested

Sample ID	KPI #	Date	Time	Type	# Containers	Composite	Pesticides (8081A)	PAHs (8270C)	Arsenic, Lead (6020)	Title 22 Metals (6000/7000)	VOCs (8260B)	TPHg/TPHd (8015M)*							HOLD
W5-1	136830	9/17/15	1520	S	1	—	X	X	X										
W5-3	136831	↑	1525	S	1	—			X										
W5-6	136832		1530	S	1	—			X										
W6-1	136833		1450	S	1	—	X	X	X										
W6-3	136834		1455	S	1	—			X										
W6-6	136835		1500	S	1	—				X									
W7-1	136836		0955	S	1	—	X	X	X										
W7-3	136837		1000	S	1	—			X										
W7-6	136838		1005	S	1	—			X										
W8-1	136839		1505	S	1	—	X	X	X										
W8-3	136840	↓	1510	S	1	—			X										
W8-6	136841	9/17/15	1515	S	1	—			X										

NOTES: *silica gel cleanup for TPHd

☐ EDF Log Code: WESS

Global ID: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	9/18/15 08:56	Ben Browning	9/18/15 0856
Ben Browning	9/18/15 09:50		9/18/15 0950

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 9/22/2015

TO: MR. PETER MORRIS
WEST ENVIRONMENTAL S&T
711 GRAND AVENUE, SUITE 220
SAN RAFAEL, CA 94901

Phone: 415-460-6770
Fax: 415-460-6771
Email: main@westenvironmental.com

ACCT: 9946
PROJ: HOLLIDAY.WEST OAKLAND

FROM: Richard A. Kagel, Ph.D. RAK 9/22/2015
Laboratory Director

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT HOLLIDAY.WEST OAKLAND

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
W1-5	AIR	9/17/2015	12:45	136842
W2-5	AIR	9/17/2015	11:51	136843
W4-5	AIR	9/17/2015	13:11	136844
W7-5	AIR	9/17/2015	12:18	136845

The above listed sample group was received on 9/18/2015 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	W1-5
LAB NO:	136842
SAMPLE TYPE:	AIR
DATE SAMPLED:	09/17/2015
TIME SAMPLED:	12:45
BATCH ID:	091415A1
DATE ANALYZED:	09/18/2015

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	1.00	ND	4.95	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	1.00	ND	6.99	ND
CHLOROMETHANE	74-87-3	1.00	ND	2.07	ND
VINYL CHLORIDE	75-01-4	1.00	ND	2.56	ND
BROMOMETHANE	74-83-9	1.00	ND	3.88	ND
CHLOROETHANE	75-00-3	1.00	ND	2.64	ND
TRICHLOROFLUOROMETHANE	75-69-4	1.00	2.98	5.62	16.7
1,1-DICHLOROETHENE	75-35-4	1.00	ND	3.97	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	1.00	ND	7.66	ND
METHYLENE CHLORIDE	75-09-2	1.00	ND	3.47	ND
1,1-DICHLOROETHANE	75-34-3	1.00	ND	4.05	ND
CIS-1,2-DICHLOROETHENE	156-59-2	1.00	ND	3.97	ND
CHLOROFORM	67-66-3	1.00	ND	4.88	ND
1,1,1-TRICHLOROETHANE	71-55-6	1.00	ND	5.46	ND
CARBON TETRACHLORIDE	56-23-5	1.00	ND	6.29	ND
1,2-DICHLOROETHANE	107-06-2	1.00	ND	4.05	ND
BENZENE	71-43-2	1.00	2.86	3.19	9.14
TRICHLOROETHENE	79-01-6	1.00	ND	5.37	ND
1,2-DICHLOROPROPANE	78-87-5	1.00	ND	4.62	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	1.00	ND	4.54	ND
TOLUENE	108-88-3	1.00	4.18	3.77	15.8
CIS-1,3-DICHLOROPROPENE	10061-01-5	1.00	ND	4.54	ND
1,1,2-TRICHLOROETHANE	79-00-5	1.00	ND	5.46	ND
TETRACHLOROETHENE	127-18-4	1.00	4.33	6.78	29.4
1,2-DIBROMOETHANE	106-93-4	1.00	ND	7.68	ND
CHLOROBENZENE	108-90-7	1.00	ND	4.60	ND
ETHYLBENZENE	100-41-4	1.00	1.06	4.34	4.60
XYLENE (M+P)	1330-20-7	1.00	3.05	4.34	13.2
XYLENE (O)	95-47-6	1.00	1.36	4.34	5.91
STYRENE	100-42-5	1.00	ND	4.26	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	1.00	ND	6.87	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	1.00	2.11	4.92	10.4
1,2,4-TRIMETHYLBENZENE	95-63-6	1.00	3.46	4.92	17.0
1,3-DICHLOROBENZENE	541-73-1	1.00	ND	6.01	ND
1,4-DICHLOROBENZENE	106-46-7	1.00	ND	6.01	ND
1,2-DICHLOROBENZENE	95-50-1	1.00	ND	6.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	2.00	ND	14.8	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND	10.7	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: RAM
DATE: 9/22/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	W2-5
LAB NO:	136843
SAMPLE TYPE:	AIR
DATE SAMPLED:	09/17/2015
TIME SAMPLED:	11:51
BATCH ID:	091415A1
DATE ANALYZED:	09/18/2015

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	5.00	ND	24.7	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	5.00	ND	35.0	ND
CHLOROMETHANE	74-87-3	5.00	ND	10.3	ND
VINYL CHLORIDE	75-01-4	5.00	ND	12.8	ND
BROMOMETHANE	74-83-9	5.00	ND	19.4	ND
CHLOROETHANE	75-00-3	5.00	ND	13.2	ND
TRICHLOROFLUOROMETHANE	75-69-4	5.00	ND	28.1	ND
1,1-DICHLOROETHENE	75-35-4	5.00	ND	19.8	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	5.00	ND	38.3	ND
METHYLENE CHLORIDE	75-09-2	5.00	ND	17.4	ND
1,1-DICHLOROETHANE	75-34-3	5.00	ND	20.2	ND
CIS-1,2-DICHLOROETHENE	156-59-2	5.00	ND	19.8	ND
CHLOROFORM	67-66-3	5.00	ND	24.4	ND
1,1,1-TRICHLOROETHANE	71-55-6	5.00	ND	27.3	ND
CARBON TETRACHLORIDE	56-23-5	5.00	ND	31.5	ND
1,2-DICHLOROETHANE	107-06-2	5.00	ND	20.2	ND
BENZENE	71-43-2	5.00	ND	16.0	ND
TRICHLOROETHENE	79-01-6	5.00	ND	26.9	ND
1,2-DICHLOROPROPANE	78-87-5	5.00	ND	23.1	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.00	ND	22.7	ND
TOLUENE	108-88-3	5.00	ND	18.8	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	5.00	ND	22.7	ND
1,1,2-TRICHLOROETHANE	79-00-5	5.00	ND	27.3	ND
TETRACHLOROETHENE	127-18-4	5.00	33.1	33.9	224
1,2-DIBROMOETHANE	106-93-4	5.00	ND	38.4	ND
CHLOROBENZENE	108-90-7	5.00	ND	23.0	ND
ETHYLBENZENE	100-41-4	5.00	ND	21.7	ND
XYLENE (M+P)	1330-20-7	5.00	ND	21.7	ND
XYLENE (O)	95-47-6	5.00	ND	21.7	ND
STYRENE	100-42-5	5.00	ND	21.3	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.00	ND	34.3	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	5.00	ND	24.6	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	5.00	ND	24.6	ND
1,3-DICHLOROBENZENE	541-73-1	5.00	ND	30.1	ND
1,4-DICHLOROBENZENE	106-46-7	5.00	ND	30.1	ND
1,2-DICHLOROBENZENE	95-50-1	5.00	ND	30.1	ND
1,2,4-TRICHLOROBENZENE	120-82-1	10.0	ND	74.2	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND	53.3	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 9/22/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	W4-5
LAB NO:	136844
SAMPLE TYPE:	AIR
DATE SAMPLED:	09/17/2015
TIME SAMPLED:	13:11
BATCH ID:	091415A1
DATE ANALYZED:	09/18/2015

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	5.00	ND	24.7	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	5.00	ND	35.0	ND
CHLOROMETHANE	74-87-3	5.00	ND	10.3	ND
VINYL CHLORIDE	75-01-4	5.00	ND	12.8	ND
BROMOMETHANE	74-83-9	5.00	ND	19.4	ND
CHLOROETHANE	75-00-3	5.00	ND	13.2	ND
TRICHLOROFLUOROMETHANE	75-69-4	5.00	ND	28.1	ND
1,1-DICHLOROETHENE	75-35-4	5.00	ND	19.8	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	5.00	ND	38.3	ND
METHYLENE CHLORIDE	75-09-2	5.00	ND	17.4	ND
1,1-DICHLOROETHANE	75-34-3	5.00	ND	20.2	ND
CIS-1,2-DICHLOROETHENE	156-59-2	5.00	ND	19.8	ND
CHLOROFORM	67-66-3	5.00	ND	24.4	ND
1,1,1-TRICHLOROETHANE	71-55-6	5.00	ND	27.3	ND
CARBON TETRACHLORIDE	56-23-5	5.00	ND	31.5	ND
1,2-DICHLOROETHANE	107-06-2	5.00	ND	20.2	ND
BENZENE	71-43-2	5.00	ND	16.0	ND
TRICHLOROETHENE	79-01-6	5.00	ND	26.9	ND
1,2-DICHLOROPROPANE	78-87-5	5.00	ND	23.1	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.00	ND	22.7	ND
TOLUENE	108-88-3	5.00	ND	18.8	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	5.00	ND	22.7	ND
1,1,2-TRICHLOROETHANE	79-00-5	5.00	ND	27.3	ND
TETRACHLOROETHENE	127-18-4	5.00	51.9	33.9	352
1,2-DIBROMOETHANE	106-93-4	5.00	ND	38.4	ND
CHLOROBENZENE	108-90-7	5.00	ND	23.0	ND
ETHYLBENZENE	100-41-4	5.00	ND	21.7	ND
XYLENE (M+P)	1330-20-7	5.00	ND	21.7	ND
XYLENE (O)	95-47-6	5.00	ND	21.7	ND
STYRENE	100-42-5	5.00	ND	21.3	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.00	ND	34.3	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	5.00	ND	24.6	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	5.00	ND	24.6	ND
1,3-DICHLOROBENZENE	541-73-1	5.00	ND	30.1	ND
1,4-DICHLOROBENZENE	106-46-7	5.00	ND	30.1	ND
1,2-DICHLOROBENZENE	95-50-1	5.00	ND	30.1	ND
1,2,4-TRICHLOROBENZENE	120-82-1	10.0	ND	74.2	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND	53.3	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 9/22/15

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

SAMPLE ID:	W7-5
LAB NO:	136845
SAMPLE TYPE:	AIR
DATE SAMPLED:	09/17/2015
TIME SAMPLED:	12:18
BATCH ID:	091415A1
DATE ANALYZED:	09/18/2015

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	5.00	ND	24.7	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	5.00	ND	35.0	ND
CHLOROMETHANE	74-87-3	5.00	ND	10.3	ND
VINYL CHLORIDE	75-01-4	5.00	ND	12.8	ND
BROMOMETHANE	74-83-9	5.00	ND	19.4	ND
CHLOROETHANE	75-00-3	5.00	ND	13.2	ND
TRICHLOROFLUOROMETHANE	75-69-4	5.00	ND	28.1	ND
1,1-DICHLOROETHENE	75-35-4	5.00	ND	19.8	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	5.00	ND	38.3	ND
METHYLENE CHLORIDE	75-09-2	5.00	ND	17.4	ND
1,1-DICHLOROETHANE	75-34-3	5.00	ND	20.2	ND
CIS-1,2-DICHLOROETHENE	156-59-2	5.00	ND	19.8	ND
CHLOROFORM	67-66-3	5.00	ND	24.4	ND
1,1,1-TRICHLOROETHANE	71-55-6	5.00	ND	27.3	ND
CARBON TETRACHLORIDE	56-23-5	5.00	ND	31.5	ND
1,2-DICHLOROETHANE	107-06-2	5.00	ND	20.2	ND
BENZENE	71-43-2	5.00	ND	16.0	ND
TRICHLOROETHENE	79-01-6	5.00	ND	26.9	ND
1,2-DICHLOROPROPANE	78-87-5	5.00	ND	23.1	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	5.00	ND	22.7	ND
TOLUENE	108-88-3	5.00	ND	18.8	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	5.00	ND	22.7	ND
1,1,2-TRICHLOROETHANE	79-00-5	5.00	ND	27.3	ND
TETRACHLOROETHENE	127-18-4	5.00	9.44	33.9	64.0
1,2-DIBROMOETHANE	106-93-4	5.00	ND	38.4	ND
CHLOROBENZENE	108-90-7	5.00	ND	23.0	ND
ETHYLBENZENE	100-41-4	5.00	ND	21.7	ND
XYLENE (M+P)	1330-20-7	5.00	ND	21.7	ND
XYLENE (O)	95-47-6	5.00	ND	21.7	ND
STYRENE	100-42-5	5.00	ND	21.3	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	5.00	ND	34.3	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	5.00	ND	24.6	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	5.00	ND	24.6	ND
1,3-DICHLOROBENZENE	541-73-1	5.00	ND	30.1	ND
1,4-DICHLOROBENZENE	106-46-7	5.00	ND	30.1	ND
1,2-DICHLOROBENZENE	95-50-1	5.00	ND	30.1	ND
1,2,4-TRICHLOROBENZENE	120-82-1	10.0	ND	74.2	ND
HEXACHLOROBUTADIENE	87-68-3	5.00	ND	53.3	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
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µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

APPROVED BY: _____
DATE: 9/22/15

K PRIME, INC.

LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

BATCH ID: 091815A1

METHOD: HELIUM
REFERENCE: ASTM D 1946

UNITS: %-V

SAMPLE ID	LAB NO.	SAMPLE TYPE	DATE SAMPLED	TIME SAMPLED	DATE ANALYZED	MRL	SAMPLE CONC
W1-5	136842	AIR	09/17/2015	12:45	09/18/2015	0.100	ND
W2-5	136843	AIR	09/17/2015	11:51	09/18/2015	0.100	ND
W4-5	136844	AIR	09/17/2015	13:11	09/18/2015	0.100	ND
W7-5	136845	AIR	09/17/2015	12:18	09/18/2015	0.100	ND

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT

APPROVED BY: [signature]
DATE: 9/22/15

K PRIME, INC.

LABORATORY METHOD BLANK REPORT

METHOD BLANK ID: B091415A1
SAMPLE TYPE: AIR

BATCH ID: 091415A1
DATE ANALYZED: 09/14/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

		PPB (V/V)		µg/cu. m	
COMPOUND NAME	**CAS NO.**	**MRL**	**SAMPLE CONC**	**MRL**	**SAMPLE CONC**
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND	2.47	ND
DICHLOROTETRAFLUOROETHANE	76-14-2	0.500	ND	3.50	ND
CHLOROMETHANE	74-87-3	0.500	ND	1.03	ND
VINYL CHLORIDE	75-01-4	0.500	ND	1.28	ND
BROMOMETHANE	74-83-9	0.500	ND	1.94	ND
CHLOROETHANE	75-00-3	0.500	ND	1.32	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND	2.81	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND	1.98	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND	3.83	ND
METHYLENE CHLORIDE	75-09-2	0.500	ND	1.74	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND	1.98	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND	2.02	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND	1.98	ND
CHLOROFORM	67-66-3	0.500	ND	2.44	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND	2.73	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND	3.15	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND	2.02	ND
BENZENE	71-43-2	0.500	ND	1.60	ND
TRICHLOROETHENE	79-01-6	0.500	ND	2.69	ND
1,4-DIOXANE	123-91-1	0.500	ND	1.80	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND	2.31	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND	2.27	ND
TOLUENE	108-88-3	0.500	ND	1.88	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND	2.27	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND	2.73	ND
TETRACHLOROETHENE	127-18-4	0.500	ND	3.39	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND	3.84	ND
CHLOROBENZENE	108-90-7	0.500	ND	2.30	ND
ETHYLBENZENE	100-41-4	0.500	ND	2.17	ND
XYLENE (M+P)	1330-20-7	0.500	ND	2.17	ND
XYLENE (O)	95-47-6	0.500	ND	2.17	ND
STYRENE	100-42-5	0.500	ND	2.13	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND	3.43	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND	2.46	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND	2.46	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND	3.01	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND	3.01	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND	3.01	ND
1,2,4-TRICHLOROBENZENE	120-82-1	0.500	ND	3.71	ND

NOTES:

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MRL - METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
µg/cu. m VALUES ARE CALCULATED FROM PPB RESULTS USING NORMAL TEMPERATURE AND PRESSURE (NPT).

K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

LAB CONTROL ID: L091415A1
LAB CONTROL DUPLICATE ID: D091415A1

SAMPLE TYPE: AIR
BATCH ID: 091415A1
DATE ANALYZED: 09/14/2015

METHOD: VOC'S IN AIR
REFERENCE: EPA METHOD TO 15 (GC-MS-SCAN)

COMPOUND NAME	SPIKE ADDED (PPB)	REPORTING LIMIT (PPB)	SAMPLE CONC (PPB)	SPIKE CONC (PPB)	SPIKE REC (%)	REC LIMITS (%)
1,1-DICHLOROETHENE	10.0	0.500	ND	7.46	75	60 - 140
TRICHLOROETHENE	10.0	0.500	ND	10.8	108	60 - 140
BENZENE	10.0	0.500	ND	7.01	70	60 - 140
TOLUENE	10.0	0.500	ND	8.98	90	60 - 140
TETRACHLOROETHENE	10.0	0.500	ND	12.4	124	60 - 140

COMPOUND NAME	SPIKE ADDED (PPB)	SPIKE DUP CONC (PPB)	SPIKE DUP REC (%)	RPD (%)	QC LIMITS RPD (%)	QC LIMITS REC (%)
1,1-DICHLOROETHENE	10.0	7.42	74	0.5	25	60 - 140
TRICHLOROETHENE	10.0	10.5	105	2.5	25	60 - 140
BENZENE	10.0	7.05	71	0.6	25	60 - 140
TOLUENE	10.0	8.83	88	1.7	25	60 - 140
TETRACHLOROETHENE	10.0	12.0	120	3.0	25	60 - 140

NOTES:
NA - NOT APPLICABLE OR AVAILABLE
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT

K PRIME, INC.

LABORATORY QC REPORT

METHOD: HELIUM
REFERENCE: ASTM D 1946

METHOD BLANK ID:	B091815A1
SAMPLE ID:	L091815A1
DUPLICATE ID:	D091815A1
BATCH #:	091815A1
SAMPLE TYPE:	AIR
UNITS:	%-V
DATE ANALYZED:	09/18/2015

METHOD BLANK

PARAMETER	REPORTING LIMIT	SAMPLE RESULT
HELIUM	0.050	ND

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
HELIUM	10.0	ND	9.75	98	70-130

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
HELIUM	0.050	9.75	9.10	6.9	±20

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

9946

SAMPLE ANALYSIS/COMPOSITE REQUEST FORM

CHAIN-OF-CUSTODY

Invoice to: WEST, Inc.	Date: 9/18/15	Page 1 of 1
Project: Holliday.West Oakland	Location: 5th & Magnolia Streets, West Oakland	
Project Manager: Peter Morris, WEST, Inc.	Phone: 415/460-6770	Fax: 415/460-6771
Laboratory: KPrime, Inc, Santa Rosa, CA	Turnaround time (days): 1 2 3 5 7 10 Std. — X	
Sampler Signature:	Analyses Requested	

Sample ID	Summa ID	Date	Time	Type	# Containers	Composite	VOCs (TO-15)	Heluim						KPI #	HOLD
W1-5	S-231	9/17/15	1238 / 1245	A	1	—	X	X						136842	
W2-5	S-250	9/17/15	1143 / 1151	A	1	—	X	X						136843	
W4-5	S-354	9/17/15	1304 / 1311	A	1	—	X	X						136844	
W7-5	S-255	9/17/15	1210 / 1218	A	1	—	X	X						136845	

NOTES:

☐ EDF Log Code: WESS

Global ID: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	9/18/15 0856	Ben Browning	9/18/15 0856
Ben Browning	9/18/2015 09:50		9/18/2015 09:50

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 9/25/2015

TO: MR. PETER MORRIS
WEST ENVIRONMENTAL S&T
711 GRAND AVENUE, SUITE 220
SAN RAFAEL, CA 94901

Phone: 415-460-6770
Fax: 415-460-6771
Email: main@westenvironmental.com

ACCT: 9946
PROJ: HOLLIDAY.WEST OAKLAND

FROM: Richard A. Kagel, Ph.D.
Laboratory Director RAK by ck 09/25/2015

SUBJECT: LABORATORY RESULTS FOR YOUR PROJECT HOLLIDAY.WEST OAKLAND

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	TIME	KPI LAB #
W1-16	WATER	9/17/2015	11:40	136814
W2-18	WATER	9/17/2015	14:00	136815
W4-16	WATER	9/17/2015	11:10	136816
TRIP BLANK	WATER	9/17/2015	NA	136817

The above listed sample group was received on 9/18/2015 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	TIME SAMPLED	BATCH ID	DATE ANALYZED	MRL	SAMPLE CONC	GRO PATTERN
W1-16	136814	09/17/2015	11:40	091815W1	09/18/2015	0.050	ND	
W2-18	136815	09/17/2015	14:00	091815W1	09/18/2015	0.050	ND	
W4-16	136816	09/17/2015	11:10	091815W1	09/18/2015	0.050	ND	

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED METHOD REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE
MRL - METHOD REPORTING LIMIT
AE - UNKNOWN HYDROCARBON WITH A SINGLE PEAK
AN - UNKNOWN HYDROCARBON WITH SEVERAL PEAKS
AS - HEAVIER HYDROCARBON THAN GASOLINE CONTRIBUTING TO GRO VALUE
CO - HYDROCARBON RESPONSE IN GASOLINE RANGE BUT DOES NOT RESEMBLE GASOLINE

APPROVED BY: CW
DATE: 09/24/2015

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: W1-16
LAB NO: 136814
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 11:40
K PRIME PROJECT: 9946 **BATCH #:** 091715W1
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND **DATE ANALYZED:** 09/18/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: W1-16
LAB NO: 136814
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 11:40
K PRIME PROJECT: 9946 **BATCH #:** 091715W1
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND **DATE ANALYZED:** 09/18/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	95
TOLUENE-D8	97
4-BROMOFLUOROBENZENE	92

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: CW
DATE: 09/24/2015

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: W2-18
LAB NO: 136815
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 14:00
BATCH #: 091715W1
DATE ANALYZED: 09/18/2015

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE TYPE: WATER
UNITS: ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	0.850
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: W2-18
LAB NO: 136815
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 14:00
K PRIME PROJECT: 9946 **BATCH #:** 091715W1
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND **DATE ANALYZED:** 09/18/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	99
TOLUENE-D8	97
4-BROMOFLUOROBENZENE	92

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: CH
DATE: 09/24/2015

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: W4-16
LAB NO: 136816
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 11:10
K PRIME PROJECT: 9946 **BATCH #:** 091715W1
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND **DATE ANALYZED:** 09/18/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.
LABORATORY REPORT

SAMPLE ID: W4-16
LAB NO: 136816
DATE SAMPLED: 09/17/2015
TIME SAMPLED: 11:10
K PRIME PROJECT: 9946 **BATCH #:** 091715W1
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND **DATE ANALYZED:** 09/18/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	97
TOLUENE-D8	97
4-BROMOFLUOROBENZENE	91

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

APPROVED BY: CW
DATE: 09/24/2015

K PRIME, INC.
LABORATORY REPORT

K PRIME PROJECT: 9946
CLIENT PROJECT: HOLLIDAY.WEST OAKLAND

METHOD: DRO
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

SAMPLE ID	LAB NO.	DATE SAMPLED	BATCH ID	EXTRACT DATE	DATE ANALYZED	MRL	SAMPLE CONC	DRO PATTERN
W1-16	136814	09/17/2015	092315W1	09/23/2015	09/23/2015	0.074	ND	
W2-18	136815	09/17/2015	092315W1	09/23/2015	09/23/2015	0.070	ND	
W4-16	136816	09/17/2015	092315W1	09/23/2015	09/23/2015	0.064	ND	

NOTES:

DRO	Diesel Range Organics (C12-C34) with Silica Gel Cleanup
ND	Not Detected at or above the stated MRL
NA	Not Applicable or Available
MRL	Method Reporting Limit
AD	Typical pattern for diesel
AM	Hydrocarbon response is in the C12-C22 range
AC	Heavier hydrocarbons contributing to diesel range quantitation
AJ	Heavier hydrocarbon than diesel
AK	Lighter hydrocarbon than diesel
AE	Unknown hydrocarbon with a single peak
AN	Unknown hydrocarbon with several peaks

APPROVED BY: CN
DATE: 09/24/2015

K PRIME, INC.
LABORATORY QUALITY CONTROL REPORT

METHOD BLANK ID: B091815W1
SAMPLE TYPE: WATER

METHOD: GRO-GASOLINE RANGE ORGANICS
REFERENCE: EPA 8015B

BATCH #: 091815W1
DATE EXTRACTED: 09/18/2015
DATE ANALYZED: 09/18/2015

UNITS: mg/L

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
TPH-G	0.050	ND

SAMPLE ID: L091815W1
DUPLICATE ID: D091815W1
BATCH #: 091815W1
SAMPLE TYPE: WATER
UNITS: mg/L

DATE EXTRACTED: 09/18/2015
DATE ANALYZED: 09/18/2015

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
TPH-G	0.500	ND	0.585	117	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
TPH-G	0.050	0.585	0.599	2.4	±20

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE

K PRIME, INC.

LABORATORY METHOD BLANK REPORT **METHOD BLANK ID:** B091715W1

BATCH #: 091715W1
DATE ANALYZED: 09/17/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
DICHLORODIFLUOROMETHANE	75-71-8	0.500	ND
CHLOROMETHANE	74-87-3	0.500	ND
VINYL CHLORIDE	75-01-4	0.500	ND
BROMOMETHANE	74-83-9	0.500	ND
CHLOROETHANE	75-00-3	0.500	ND
TRICHLOROFLUOROMETHANE	75-69-4	0.500	ND
1,1-DICHLOROETHENE	75-35-4	0.500	ND
TRICHLOROTRIFLUOROETHANE	76-13-1	0.500	ND
METHYLENE CHLORIDE	75-09-2	2.50	ND
TRANS-1,2-DICHLOROETHENE	156-60-5	0.500	ND
1,1-DICHLOROETHANE	75-34-3	0.500	ND
CIS-1,2-DICHLOROETHENE	156-59-2	0.500	ND
2,2-DICHLOROPROPANE	594-20-7	0.500	ND
BROMOCHLOROMETHANE	74-97-5	0.500	ND
CHLOROFORM	67-66-3	0.500	ND
1,1,1-TRICHLOROETHANE	71-55-6	0.500	ND
CARBON TETRACHLORIDE	56-23-5	0.500	ND
1,1-DICHLOROPROPENE	563-58-6	0.500	ND
BENZENE	71-43-2	0.500	ND
1,2-DICHLOROETHANE	107-06-2	0.500	ND
TRICHLOROETHENE	79-01-6	0.500	ND
1,2-DICHLOROPROPANE	78-87-5	0.500	ND
DIBROMOMETHANE	74-95-3	0.500	ND
BROMODICHLOROMETHANE	75-27-4	0.500	ND
TRANS-1,3-DICHLOROPROPENE	10061-02-6	0.500	ND
TOLUENE	108-88-3	0.500	ND
CIS-1,3-DICHLOROPROPENE	10061-01-5	0.500	ND
1,1,2-TRICHLOROETHANE	79-00-5	0.500	ND
TETRACHLOROETHENE	127-18-4	0.500	ND
1,3-DICHLOROPROPANE	142-28-9	0.500	ND
DIBROMOCHLOROMETHANE	124-48-1	0.500	ND
1,2-DIBROMOETHANE	106-93-4	0.500	ND
CHLOROBENZENE	108-90-7	0.500	ND
1,1,1,2-TETRACHLOROETHANE	630-20-6	0.500	ND
ETHYLBENZENE	100-41-4	0.500	ND
XYLENE (M+P)	1330-20-7	0.500	ND
XYLENE (O)	1330-20-7	0.500	ND
STYRENE	100-42-5	0.500	ND
BROMOFORM	75-25-2	0.500	ND
ISOPROPYLBENZENE	98-82-8	0.500	ND
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.500	ND
BROMOBENZENE	108-86-1	0.500	ND
1,2,3-TRICHLOROPROPANE	96-18-4	0.500	ND
N-PROPYLBENZENE	103-65-1	0.500	ND
2-CHLOROTOLUENE	95-49-8	0.500	ND

K PRIME, INC.

LABORATORY METHOD BLANK REPORT **METHOD BLANK ID:** B091715W1

BATCH #: 091715W1
DATE ANALYZED: 09/17/2015

METHOD: VOLATILE ORGANIC COMPOUNDS **SAMPLE TYPE:** WATER
REFERENCE: EPA 5030/8260 **UNITS:** ug/L

COMPOUND NAME	CAS NO.	REPORTING LIMIT	SAMPLE CONC
1,3,5-TRIMETHYLBENZENE	108-67-8	0.500	ND
4-CHLOROTOLUENE	106-43-4	0.500	ND
TERT-BUTYLBENZENE	98-06-6	0.500	ND
1,2,4-TRIMETHYLBENZENE	95-63-6	0.500	ND
SEC-BUTYLBENZENE	135-98-8	0.500	ND
1,3-DICHLOROBENZENE	541-73-1	0.500	ND
4-ISOPROPYLTOLUENE	99-87-6	0.500	ND
1,4-DICHLOROBENZENE	106-46-7	0.500	ND
N-BUTYLBENZENE	104-51-8	0.500	ND
1,2-DICHLOROBENZENE	95-50-1	0.500	ND
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.500	ND
1,2,4-TRICHLOROBENZENE	120-82-1	1.00	ND
HEXACHLOROBUTADIENE	87-68-3	1.00	ND
NAPHTHALENE	91-20-3	1.00	ND
1,2,3-TRICHLOROBENZENE	87-61-6	1.00	ND

SURROGATE RECOVERY	%
DIBROMOFLUOROMETHANE	95
TOLUENE-D8	96
4-BROMOFLUOROBENZENE	93

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA -NOT APPLICABLE OR AVAILABLE

K PRIME, INC.

LABORATORY QC REPORT

METHOD: VOLATILE ORGANIC COMPOUNDS
REFERENCE: EPA 5030/8260

SAMPLE ID: B091715W1
SPIKE ID: L091715W1
DUPLICATE ID: D091715W1
BATCH #: 091715W1
SAMPLE TYPE: WATER
UNITS: µg/L

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
1,1 DICHLOROETHENE	10.0	ND	11.0	110	60-140
BENZENE	10.0	ND	11.9	119	60-140
TRICHLOROETHENE	10.0	ND	11.7	117	60-140
TOLUENE	10.0	ND	11.9	119	60-140
CHLOROBENZENE	10.0	ND	12.1	121	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
1,1 DICHLOROETHENE	0.500	11.0	11.4	3.1	±20
BENZENE	0.500	11.9	12.1	1.8	±20
TRICHLOROETHENE	0.500	11.7	11.9	2.5	±20
TOLUENE	0.500	11.9	12.2	2.3	±20
CHLOROBENZENE	0.500	12.1	12.2	1.1	±20

NOTES:
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT AVAILABLE OR APPLICABLE

K PRIME, INC.

LABORATORY QUALITY CONTROL REPORT

BATCH ID: 092315W1
DATE EXTRACTED: 09/23/2015
DATE ANALYZED: 09/23/2015

METHOD: DRO
REFERENCE: EPA 8015B

SAMPLE TYPE: WATER
UNITS: mg/L

METHOD BLANK ID: B092315W1

COMPOUND NAME	REPORTING LIMIT	SAMPLE CONC
DRO	0.050	ND

SAMPLE ID: L092315W1
DUPLICATE ID: D092315W1

ACCURACY (MATRIX SPIKE)

PARAMETER	SPIKE ADDED	SAMPLE RESULT	SPIKE RESULT	RECOVERY (%)	LIMITS (%)
DRO	2.50	ND	2.21	88	60-140

PRECISION (SPIKE DUPLICATE)

COMPOUND NAME	REPORTING LIMIT	SPIKE RESULT	DUPLICATE RESULT	RPD (%)	LIMITS (%)
DRO	0.050	2.21	2.28	3.1	±20

NOTES:
DRO - DIESEL RANGE ORGANICS (C12-C34)
ND - NOT DETECTED AT OR ABOVE THE STATED REPORTING LIMIT
NA - NOT APPLICABLE OR AVAILABLE

WEST
Environmental Services & Technology
711 Grand Avenue, Suite 220
San Rafael, California 94901
415.460.6770 • Fax 415.460.6771
main@westenvironmental.com

9946

SAMPLE ANALYSIS/COMPOSITE REQUEST FORM

CHAIN-OF-CUSTODY

Invoice to: WEST, Inc.	Date: 9/18/15 Page 1 of 1
Project: Holliday.West Oakland	Location: 5th & Magnolia Streets, West Oakland
Project Manager: Peter Morris, WEST, Inc.	Phone: 415/460-6770 Fax: 415/460-6771
Laboratory: KPrime, Inc, Santa Rosa, CA	Turnaround time (days): 1 2 3 5 7 10 Std. X
Sampler Signature:	Analyses Requested

Sample ID	KPI #	Date	Time	Type	# Containers	Composite	Pesticides (8081A)	PAHs (8270C)	Arsenic, Lead (6020)	Title 22 Metals (6000/7000)	VOCs (8260B)	TPHg/TPHd (8015M)*						HOLD
W1-16	136814	9/17/15	1140	W	4	–					X	X						
W2-16	136815	9/17/15	1400	W	4	–					X	X						
W4-16	136816	9/17/15	1110	W	4	–					X	X						
TripBlank	136817	9/17/15	–	W	2	–												X

NOTES: *silica gel cleanup for TPHd
Dispose of TripBlank after 30 Days

☐ EDF Log Code: WESS

Global ID: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	9/18/15 08:56	Ben Browning	9/18/15 08:56
Ben Browning	9/18/15 09:50		09/18/15 09:50

APPENDIX C

CALCULATIONS

TABLE C-1
95-PERCENT UCL-PAHs
5th Street and Magnolia Street
West Oakland, California

Dibenzo(a,h)anthracene

General Statistics			
Total Number of Observations	8	Number of Distinct Observations	8
		Number of Missing Observations	0
Minimum	26	Mean	108.9
Maximum	430	Median	71.85
SD	131.8	Std. Error of Mean	46.59
Coefficient of Variation	1.21	Skewness	2.657

Gamma Statistics			
k hat (MLE)	1.462	k star (bias corrected MLE)	0.997
Theta hat (MLE)	74.48	Theta star (bias corrected MLE)	109.2
nu hat (MLE)	23.39	nu star (bias corrected)	15.95
MLE Mean (bias corrected)	108.9	MLE Sd (bias corrected)	109
		Approximate Chi Square Value (0.05)	7.927
Adjusted Level of Significance	0.0195	Adjusted Chi Square Value	6.549

Assuming Gamma Distribution			
95% Approximate Gamma UCL (use when n>=5(	219	95% Adjusted Gamma UCL (use when n<50)	265.1

Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.879	Shapiro Wilk Lognormal GOF Test	
5% Shapiro Wilk Critical Value	0.818	Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.245	Lilliefors Lognormal GOF Test	
5% Lilliefors Critical Value	0.313	Data appear Lognormal at 5% Significance Level	
Data appear Lognormal at 5% Significance Level			

Lognormal Statistics			
Minimum of Logged Data	3.258	Mean of logged Data	4.311
Maximum of Logged Data	6.064	SD of logged Data	0.83

Assuming Lognormal Distribution			
95% H-UCL	271.1	90% Chebyshev (MVUE) UCL	189.2
95% Chebyshev (MVUE) UCL	229.8	97.5% Chebyshev (MVUE) UCL	286
99% Chebyshev (MVUE) UCL	396.6		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs			
95% CLT UCL	**185.5**	95% Jackknife UCL	197.1
95% Standard Bootstrap UCL	178.2	95% Bootstrap-t UCL	478.3
95% Hall's Bootstrap UCL	588.3	95% Percentile Bootstrap UCL	195.3
95% BCA Bootstrap UCL	212		
90% Chebyshev(Mean, Sd) UCL	248.6	95% Chebyshev(Mean, Sd) UCL	311.9
97.5% Chebyshev(Mean, Sd) UCL	399.8	99% Chebyshev(Mean, Sd) UCL	572.4

TABLE C-2
95-PERCERNT UCL-LEAD
5th Street and Magnolia Street
West Oakland, California

Lead

General Statistics

Number of Valid Observations	8	Number of Distinct Observations	8

Raw Statistics		Log-transformed Statistics	
Minimum	18.9	Minimum of Log Data	2.939
Maximum	510	Maximum of Log Data	6.234
Mean	85.14	Mean of log Data	3.556
Median	25.1	SD of log Data	1.103
SD	171.8		
Coefficient of Variation	2.017		
Skewness	2.822		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.446	Shapiro Wilk Test Statistic	0.587
Shapiro Wilk Critical Value	0.818	Shapiro Wilk Critical Value	0.818
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	200.2	95% H-UCL	298.7
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	158.5
95% Adjusted-CLT UCL (Chen-1995)	249.8	97.5% Chebyshev (MVUE) UCL	202
95% Modified-t UCL (Johnson-1978)	210.3	99% Chebyshev (MVUE) UCL	287.5

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	0.51	Data do not follow a Discernable Distribution (0.05)	
Theta Star	167		
MLE of Mean	85.14		
MLE of Standard Deviation	119.2		
nu star	8.158		
Approximate Chi Square Value (.05)	2.827	Nonparametric Statistics	
Adjusted Level of Significance	0.0195	**95% CLT UCL**	**185**
Adjusted Chi Square Value	2.096	95% Jackknife UCL	200.2
		95% Standard Bootstrap UCL	177.8
Anderson-Darling Test Statistic	1.98	95% Percentile Bootstrap UCL	205.8
Anderson-Darling 5% Critical Value	0.75	95% BCA Bootstrap UCL	267.1
Kolmogorov-Smirnov Test Statistic	0.45	95% Chebyshev(Mean, Sd) UCL	349.8
Kolmogorov-Smirnov 5% Critical Value	0.305	97.5% Chebyshev(Mean, Sd) UCL	464.4
Data not Gamma Distributed at 5% Significance Level		99% Chebyshev(Mean, Sd) UCL	689.4