Appendix C. Site Photographs

Appendix

This page intentionally left blank.

PLACEWORKS

SITE PHOTOGRAPHS

Client Name: Riverside Unified School District

Site Location: Eastside Expansion

Project No.: RIV-21.0

Photo No:	Date:
1	8/28/2018

Description:

View of northern portion of the site looking southeast.

Photo No:	Date:
2	8/28/2018

Description:

View of western portion of the site looking southwest.

PLACEWORKS

SITE PHOTOGRAPHS

Client Name: Riverside Unified School District

Site Location: Eastside Expansion

Project No.: RIV-21.0

Photo No:	Date:
3	8/28/2018

Description:

View of southern portion of the site looking southeast.

Photo No:	Date:
4	8/28/2018

Description:

View of basketball courts looking north.

Appendix D. Phase I Addendum

Appendix

This page intentionally left blank.

January 2019 | Phase I Environmental Site Assessment Addendum

Eastside School: Site D Lincoln Park

for Riverside Unified School District

Prepared for:

Riverside Unified School District
Contact: Ana Gonzalez, Director, Planning and
3070 Washington Street
Riverside, California 92504

Prepared by:

PlaceWorks
Denise Clendening, Ph.D., Associate Principal
2850 Inland Empire Blvd, Suite B
Ontario, California 91764
909.989.4449
info@PlaceWorks.com
www.PlaceWorks.com

PLACEWORKS

Table of Contents

Table of Contents

List of Tables

Table

List of Figures

Figure

List of Appendices

Executive Summary

PlaceWorks has performed a Phase I Environmental Site Assessment (Phase I) Addendum on behalf of the Riverside Unified School District for proposed Eastside School Site D: Lincoln Park located in the City of Riverside, Riverside County California (Figures 1-3). The Phase I was performed in general conformance with the scope and limitations of the ASTM E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and also followed Department of Toxic Substances Control (DTSC) guidelines for Phase I evaluations for school sites. The Phase I concluded that there were no Recognized Environmental Conditions (RECs), no historical Recognized Environmental Conditions (HRECs), and no Controlled Recognized Environmental Conditions (CRECs). A Phase I Addendum to assess for potential lead-based paint and organochlorine pesticides (OCPs) from termiticides was recommended in the Phase I following DTSC guidance documents for existing and proposed school sites due to the current and former structures located on the site.

The proposed school site (site) would consist of the possible demolition of the existing Lincoln High School (Site A), which currently located at the 4341 Victoria Avenue address, and acquiring the nine parcels that bound Lincoln High School to the west (Site B), the sixteen parcels across Park Avenue (Site C North and Site C South), and Lincoln Park (Site D). This Phase I report covers information about Lincoln Park, which PlaceWorks has labeled Site D, which is associated with the address 4261 Park Avenue. Site D is rectangular in shape and is associated with the APN 211-231-001. Figure 4 is an aerial photograph showing the current site conditions.

Sampling was conducted in Site D following *DTSC's Interim Guidance for Evaluating School Sites with Potential Soil Contamination as a result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers* dated June 2006 to assess the project site for potential lead-based paint and termiticides due to the historic and current structures located on the site. Structures had been located on the site dating back to 1895 prior to the development of the site as a park.

The sampling program and results are summarized below:

- A total of 80 soil samples plus 14 duplicates were collected. Samples were collected from 40 locations from 0 to 0.5 feet below ground surface (bgs) and from 2.5 to 3.0 feet bgs. Sample locations were selected based on surface covering, location of historic structures, low lying areas and proximity to driplines.

- Five composite soil samples and one composite duplicate soil sample plus six discrete samples and one discrete duplicate sample were analyzed for organochlorine pesticides by a State certified laboratory using United States Environmental Protection Agency (EPA) Method 8081A to evaluate the possible impact to soil from termiticides that may have been used on the site to protect former

Executive Summary

and current structures. Samples were analyzed from both the soil surfaces to 0.5 and from 2.5 feet bgs.

- Forty-six soil samples plus four duplicates were collected at surface to 0.5 feet to 2.5' and analyzed discretely for lead by EPA Method 6010B to evaluate the possible impact to soil from lead-based paint from former and current building materials.

- Seven soil samples plus one duplicate that were collected from the surface to 0.5 feet or from 2.5' were analyzed discretely for CAM-17 Metals by EPA Method 6010B to evaluate the possible impacts to soil from historic structures.

- Three OCPs (4,4'-DDD, 4,4'-DDE, and dieldrin) were detected in some of the soil samples analyzed for OCPs. Pesticide concentrations were below their respective EPA Region 9 Residential Regional Screening Levels (RSLs) and DTSC's modified Screening Levels. Composite sample B-21, B-22, B-26 at 0.5' bgs had a concentration of dieldrin of 0.011 milligrams per kilogram (mg/kg), which is the EPA Region 9 Regional Screening Level (EPA RSL) for dieldrin adjusted for a 3:1 composite (0.011 mg/kg).

- Lead was detected in all 46 soil samples plus the four duplicate samples above laboratory detection limits. Lead concentrations ranged from 3.77 mg/kg to 168 mg/kg at 0.5' bgs. The DTSC screening level for lead is 80 mg/kg. Samples tested at 2.5' bgs had concentrations that ranged from 3.89 mg/kg to 4.97 mg/kg. All lead concentrations at 2.5' bgs were below DTSC's lead screening level of 80 mg/kg.

- Statistical analysis using EPA's ProUCL software program was used to analyze the lead data which calculated that the 95% Upper Confidence Limit (UCL) lead concentration at the site was 64.4 mg/kg, below the DTSC lead screening level.

- Eleven CAM-17 Metals were detected in the soil samples analyzed. Barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were reported above laboratory screening limits in all eight samples, including duplicates. Arsenic and cadmium were detected in two samples and silver was found above laboratory screening limits in one sample.

- Risk estimates were calculated for the site using both the PEA screening level assessment method. The risk estimates show that the levels at the site do not pose a human health risk to the students or to the staff using an unrestricted residential land use scenario.

The results of the Phase I Addendum support the following conclusions and recommendations:

Per California Education Code Section 17213.1, Section 3, and the results of the Phase I Addendum, PlaceWorks conclude that further investigation of the site is not necessary.

1. Introduction

This document presents a Phase I Addendum Report for the Riverside Unified School District Eastside School Site D: Lincoln Park located at 4261 Park Avenue, Riverside, Riverside County, California. Figure 1 shows the regional location of the existing school site and Figure 2 shows the local vicinity. Figure 3 shows the subareas for the proposed project. Figure 4 shows the project boundary to the northwest of the existing Lincoln High School campus. This Phase I Addendum was prepared by PlaceWorks on behalf of Riverside Unified School District pursuant to the California Education Code which requires that all new school projects to obtain a "No Further Action" (NFA) determination from the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) prior to proceeding with property acquisition and/or construction of a school.

The approximately 3.26-acre project site, Lincoln Park – Site D, is in a mixed residential and commercial neighborhood. Site D is bounded by 13th Street, Howard Avenue, 12th Street, and Park Avenue and is associated with the address 4261 Park Avenue. The Assessor Parcel Number [APN] for Site D is APN 211-231-001. The proposed school site (site) would consist of the possible demolition of the existing Lincoln High School (Site A), which currently located at the 4341 Victoria Avenue address, and acquiring the nine parcels that bound Lincoln High School to the west (Site B), the sixteen parcels across Park Avenue (Site C1 and Site C2), and Lincoln Park (Site D). This Phase I and Phase I Addendum report covers information about Lincoln Park, which PlaceWorks has labeled Site D, which is associated with the address 4261 Park Avenue.

Sampling was conducted using the DTSC's *Interim Guidance for Evaluating School Sites with Potential Soil Contamination as a result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers* (June 2006). The soil sampling was conducted on August 28, 2018. This report summarizes the lead and OCP testing results.

Based on the information obtained during the Phase I, the following additional investigation was conducted in this Phase I Addendum:

- Potential impacts to soil from lead-based paint and termiticides were investigated. Soil samples were collected in accessible areas and analyzed for lead by EPA Method 6010B and organochlorine pesticides by EPA Method 8081A.

1.1 SCOPE OF WORK

The scope of work implemented to prepare this Phase I Addendum included:

- Developing sampling and analysis plans to further assess site conditions;

1. Introduction

- Implementing field and laboratory data collection and evaluation to further assess environmental conditions at the site; and

- Preparing this Phase I Addendum report.

A sampling and analyses program was conducted to evaluate the potential presence of lead and organochlorine pesticides in shallow soils due to the potential for lead-based paint and termiticides from historic buildings. The investigation was conducted on August 28, 2018. The scope for the field and laboratory investigation is discussed in Section 2. The field and laboratory program included:

- A total of 80 soil samples plus 14 duplicates were collected. Samples were collected from 40 locations from 0 to 0.5 feet below ground surface (bgs) and from 2.5 to 3.0 feet bgs. Sample locations were selected based on surface covering, location of historic structures, low lying areas and proximity to driplines.

- Five composite soil samples and one composite duplicate soil sample plus six discrete samples and one discrete duplicate sample were analyzed for organochlorine pesticides by a State certified laboratory using United States Environmental Protection Agency (EPA) Method 8081A to evaluate the possible impact to soil from termiticides that may have been used on the site to protect former and current structures. Samples were analyzed from both the soil surfaces to 0.5 and from 2.5 feet bgs.

- Forty-six soil samples plus four duplicates were collected at surface to 0.5 feet to 2.5' and analyzed discretely for lead by EPA Method 6010B to evaluate the possible impact to soil from lead-based paint from former and current building materials.

- Seven soil samples plus one duplicate that were collected from the surface to 0.5 feet or from 2.5' were analyzed discretely for CAM-17 Metals by EPA Method 6010B to evaluate the possible impacts to soil from historic structures.

- Three OCPs (4,4'-DDD, 4,4'-DDE, and dieldrin) were detected in some of the soil samples analyzed for OCPs. Pesticide concentrations were below their respective EPA Region 9 Residential Regional Screening Levels (RSLs) and DTSC's modified Screening Levels. Composite sample B-21, B-22, B-26 at 0.5' bgs had a concentration of dieldrin of 0.011 mg/kg, which is the EPA Region 9 Regional Screening Level (EPA RSL) for dieldrin adjusted for a 3:1 composite (0.011 mg/kg).

- Lead was detected in all 46 soil samples plus the four duplicate samples above laboratory detection limits. Lead concentrations ranged from 3.77 milligrams per kilogram (mg/kg) to 168 mg/kg at 0.5' bgs. The DTSC screening level for lead is 80 mg/kg. Samples tested at 2.5' bgs had concentrations that ranged from 3.89 mg/kg to 4.97 mg/kg. All lead concentrations at 2.5' bgs were below DTSC's lead screening level of 80 mg/kg.

2. Sampling Activities and Results

This section describes methods and results of the soil sampling activities conducted at the site on August 28, 2018. The soil sampling was implemented at the site by the project geologist.

2.1 UTILITY CLEARANCE

Prior to commencement of field activities, USA was notified of our intent to conduct subsurface investigations at least 48 hours prior to initiation of intrusive field tasks. USA contacted all utility owners of record within the site vicinity and notified them of our intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation. The City of Riverside was notified prior to the investigation and provided access for sampling at the site.

2.2 SOIL SAMPLING

Based on the information from the Phase I, the approximate 3.26 acre parcel, Site D Lincoln Park, had been utilized by eleven residential dwelling buildings, four horse stables, and one cow shed by 1895. By 1950s the site was used as Lincoln Park, with the southeast corner developed with a Community Settlement and the earlier structures no longer present. In 1965 the site is occupied by the park and only one structure, which is used as a recreational center for the community.

A total of 80 soil samples (plus 14 duplicates and one equipment blank) were collected on August 28, 2018 from 40 locations to characterize soil from the surface to 0.5 feet and from 2.5 feet bgs. Low lying unpaved areas were selected to assess the structures. Seven soil samples plus one duplicate were collected from the project site surface or from 2.5 feet and analyzed discretely for CAM-17 Metals by a State certified laboratory using United States Environmental Protection Agency (EPA) Method 6010B to evaluate the possible impact to soil from past usage of the site. Forty soil samples and four duplicates collected at surface to 0.5 feet plus six samples from 2.5' were collected and analyzed discretely for lead by a State certified laboratory using EPA Method 6010B to evaluate the possible impact to soil from lead-based paint in building materials. Five composite soil samples, one composite duplicate sample, six discrete soil samples, and one discrete duplicate sample were analyzed for organochlorine pesticides by EPA Method 8081A to evaluate the possible impact to soil from termiticides that may have been used on site to protect former and current structures. Samples were analyzed from both surfaces to 0.5 and 2.5 feet bgs. Table 1 is a summary table of the sampling and analysis program and Figure 5 shows the sample locations.

2.2.1 Sampling Methods and Procedures

Soil samples were collected from surface to 0.5 feet and from 2.5 feet below ground surface using a hand auger. The hand auger was advanced from the surface to 0.5 feet and to 2.5 feet below ground surface. Soil

from the sample interval was emptied from the hand auger barrel into certified pre-cleaned glass jars from the laboratory and sealed. Each sample was labeled with the sample number, sample depth, and the date and time sampled. Samples were immediately placed in an ice-filled cooler and listed on a Chain-of-custody (COC) form.

Observations pertaining to the soil type were described by a field geologist in accordance with the Unified Soil Classification System (USCS). Any observation pertaining to potential soil contamination was recorded.

2.3 QUALITY CONTROL SAMPLING PROCEDURES

Field quality control samples associated with the sampling program included duplicates, equipment blanks, and soil matrix spike/matrix spike duplicate (MS/MSD) samples, in accordance with the DTSC PEA Guidance Manual (DTSC 2015).

2.4 DECONTAMINATION PROCEDURES AND WASTE MANAGEMENT

All equipment that came into contact with the soil was decontaminated consistently to assure the quality of samples collected. Decontamination was conducted prior to and after each use of a piece of equipment. All sampling devices used were decontaminated using the following procedures:

- Non-phosphate detergent and distilled water wash, using a brush;
- Initial deionized/distilled water rinse; and
- Final deionized/distilled water rinse.

Soil cuttings were immediately backfilled into the original boring and decontamination water was disposed of in accordance to the Office of Emergency and Remedial Response (OERR) Directive 9345.3-02 (1991). Used personal protection equipment (PPE) were double bagged and placed in a municipal refuse dumpster.

2.5 RESULTS

Organochlorine pesticide concentrations from soil are summarized in Table 2, analyzed by EPA Method 8081A. Lead concentrations in surface soil are summarized in Table 3, analyzed by EPA Method 6010B. CAM-17 Metals concentrations in soil samples are summarized in Table 4. All laboratory data is included in Appendix A.

2.5.1 Soil Description

The fill soil encountered and collected during the investigation consisted of medium stiff brown silt with sand and included occasional metal and wood debris. The fill soil was concentrated on the eastern side of the site and extended a maximum of two feet below the ground surface. Samples were collected in both the native and in the fill material. The native soils encountered and collected during the investigation consisted of

medium stiff strong brown to dark brown to reddish brown silt with sand and medium dense reddish brown silty sand. No odors or staining were observed by the field geologist. Groundwater was not encountered.

2.5.2 Pesticides

Three OCPs (4,4'-DDD, 4,4'-DDE, and dieldrin) were detected in the samples analyzed for OCPs. Most of the concentrations were below their respective EPA Region 9 Residential Regional Screening Levels (RSLs) and DTSC Modified Screening Levels. Table 2 provides a summary of the OCP results.

- 4,4'-DDD was detected above laboratory screening limits in one sample B-7 at 0.5' bgs at a concentration of 0.0025 mg/kg. The EPA RSL for 4,4'-DDD is 2.3 mg/kg, significantly greater than the reported concentration in sample B-7.

- 4,4'-DDE was detected in a discrete sample B-7 at 0.5' at 0.015 mg/kg a concentration below the EPA RSL of 2 mg/kg. 4,4'-DDE was also reported in discrete sample B-9 at 0.5' bgs at 0.0083 mg/kg, which is below the EPA RSL. Sample B-30 and B-30 DUP at 0.5' bgs had concentrations of 4,4'-DDE at 0.046 mg/kg and 0.065 mg/kg respectively, which is again below the EPA RSL.

- 4,4'-DDE was detected in three 4:1 composite samples taken at 0.5' bgs. Composite B-20, B-25, B-32, B-38 had a concentration of 0.0025 mg/kg, Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP had a concentration of 0.011 mg/kg, and Composite B-27, B-28, B-29, B-34 had a concentration of 0.0075 mg/kg. The EPA RSL for 4,4'-DDE adjusted for a 4:1 composite is 0.50 mg/kg. All 4:1 composite samples that had 4,4'-DDE detected were not above the EPA RSL.

- 4,4'-DDE was also detected in 3:1 composite sample B-21, B-22, B-26 at 0.5' bgs at 0.014 mg/kg. This concentration is below the EPA RSL for 4,4'-DDE adjusted for a 3:1 composite sample, which is 0.66 mg/kg.

- Composite B-21, B-22, B-26 at 0.5' bgs had a concentration of dieldrin at 0.011 mg/kg, which is the same concentration as the EPA RSL for dieldrin adjusted for a 3:1 composite (0.011 mg/kg).

- Dieldrin was detected in 4:1 Composite Sample B-27, B-28, B-29, B-34 at 0.5' bgs at 0.0074 mg/kg. This is below the EPA RSL for dieldrin adjusted for a 4:1 composite sample, which is 0.0085 mg/kg. The level of dieldrin drops below laboratory screening limits at 2.5' bgs for Composite Sample B-27, B-28, B-29, B-34.

None of the concentrations of the OCPs exceeded EPA or DTSC health-based screening levels for residential exposure.

2.5.3 Lead

Lead was detected in all 46 soil samples plus the four duplicate samples analyzed above laboratory detection limits. Lead concentrations at 0.5' ranged from 3.77 mg/kg to 168 mg/kg. Six discrete soil samples have concentrations of lead above DTSC SL for lead, which is 80 mg/kg. Discrete sample B-6 at 0.5' had the

highest level of lead at 168 mg/kg. The lead concentration in the deeper sample, B-6 at 2.5', had a lead concentration of 4.97 mg/kg, below the DTSC SL of 80 mg/kg.

The next highest concentration of lead was in sample B-10 at 0.5' at 149 mg/kg, and at 2.5' the level of lead concentrations was 4.37 mg/kg. Sample B-12 at 0.5' has a concentration of lead at 122 mg/kg, and the soil sample from the same location collected from 2.5' had a lower lead concentration of 3.89 mg/kg. Samples B-11, B-14 and B-35 at 0.5', had lead concentrations slightly above the DTSC screening level of 80 mg/kg. Table 3 provides a summary of the lead concentrations detected in soil at the site.

The 95% upper confidence limit (UCL) was calculated using ProUCL 5.1 software provided by the EPA (EPA 2016). The UCL was calculated for lead using all distributions in the software. The calculated 95% UCL for the site that was recommended for use was 64.4 mg/kg, below DTSC's screening level for lead.

2.5.4 CAM-17 Metals

Eleven CAM-17 Metals were detected in the soil samples analyzed. Barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were reported above laboratory screening limits in all eight samples, including duplicates. Arsenic and cadmium were detected in two samples and silver was detected above laboratory screening limits in one sample.

- Barium ranged in concentration from a minimum of 76.4 mg/kg to a maximum of 124 mg/kg. None of the samples exceeded the EPA RSL for barium, which is 15,000 mg/kg.
- Chromium ranged in concentration from a minimum of 17.6 mg/kg to a maximum of 40.2 mg/kg. None of the samples exceeded the DTSC SL for chromium, which is 36,000 mg/kg.
- Cobalt ranged in concentration from a minimum of 4.79 mg/kg to a maximum of 8.04 mg/kg. None of the samples exceeded the EPA RSL for cobalt, which is 23 mg/kg.
- Copper ranged in concentration from a minimum of 8.97 mg/kg to a maximum of 41.2 mg/kg. None of the samples exceeded the EPA RSL for copper which is 3,100 mg/kg.
- Lead ranged in concentration from a minimum of 2.69 mg/kg to a maximum of 41.6 mg/kg. None of the samples exceeded the DTSC SL for lead, which is 80 mg/kg.
- Nickel ranged in concentration from a minimum of 7.24 mg/kg to a maximum of 11.8 mg/kg. None of the samples exceeded the DTSC SL for nickel, which is 490 mg/kg.
- Vanadium ranged in concentration from a minimum of 37 mg/kg to a maximum of 58 mg/kg. None of the samples exceeded the EPA RSL for vanadium, which is 390 mg/kg.
- Zinc ranged in concentration from a minimum of 34.5 mg/kg to a maximum of 206 mg/kg. None of the samples exceeded the EPA RSL for Zinc, which is 23,000 mg/kg.

- Arsenic was reported above laboratory screening limits in two discrete samples at 0.5' bgs. B-7 had an arsenic concentration of 1.08 mg/kg and B-9 had an arsenic concentration of 1.97 mg/kg. Both concentrations are below DTSC SL for arsenic of 12 mg/kg.

- Cadmium was reported above laboratory screening limits in two discrete samples at 0.5' bgs. B-9 had a cadmium concentration of 0.554 mg/kg and B-30 DUP had a cadmium concentration of 0.669 mg/kg. Both concentrations are below the DTSC SL for cadmium of 5.2 mg/kg.

- Silver was reported above laboratory screening limits in one discrete sample at 0.5' bgs. B-30 DUP had a silver concentration of 2.19 mg/kg. This concentration is well below the DTSC SL for silver of 390 mg/kg.

Table 4 summarizes the results of the CAM-17 Metals analysis for the site.

2. Site Description

This page intentionally left blank.

3. Human Health Screening Evaluation

3.1 LEAD SCREENING

Lead was detected in all 46 soil samples and the four duplicate samples above laboratory reporting limits (Table 3). Lead concentrations at 0.5' ranged 3.77 mg/kg to 168 mg/kg. Six discrete soil samples have concentrations of lead above DTSC SL for lead, which is 80 mg/kg. Six samples at 0.5' above the DTSC screening level of 80 mg/kg. Lead concentrations at the site at 2.5' bgs are below the DTSC SLs and levels of concern and are within typical background concentrations. The 95% upper confidence limit (UCL) was calculated using ProUCL 5.1 software provided by the EPA (EPA 2016). The calculated 95% UCL for the site was 64.4 mg/kg, below DTSC's screening level for lead.

For the screening for lead concentrations on existing and proposed school sites, the highest detected concentration of lead is compared to the screening value of 80 mg/kg derived from the DTSC Lead Spread 8 model. The screening value is based on exposures to children using statewide and regional air concentrations of lead. This screening value is considered appropriate for former residential and uncontaminated commercial properties where lead from lead-based paint is the only potential contaminant on the site.

DTSC's Lead Risk Assessment Spreadsheet. Version 8 (DTSC 2011) was used to estimate blood lead concentrations resulting from exposure to lead at the site using the lead concentrations in soil. The 95% upper confidence limit (UCL) lead concentration of 64.4 mg/kg was used in the risk assessment model (Table 3).

CalEPA's Office of Environmental Health Hazard Assessment (OEHHA) developed a new toxicity evaluation of lead replacing the 10 micrograms per deciliter (μg/dL) threshold blood concentration with a source-specific "benchmark change" of 1 μg/dL. One μg/dL is the estimated incremental increase in children's blood lead that would reduce IQ by up to 1 point. Because the target blood lead level of concern was updated to the more recent health-protective criterion of 1 μg/dL, DTSC's Human and Ecological Risk Office considers the 90th percentile of the distribution appropriate for use in calculating a lead soil PRG. LeadSpread 8 evaluates a source-specific exposure to lead in soil assuming the following exposure routes: ingestion, dermal contact, and dust inhalation.

The risk-based soil concentration developed in LeadSpread 8, based on the OEHHA incremental blood lead criterion, is meant to be implemented as an estimate of the Exposure Point Concentration (EPC) usually based on the 95 percent confidence limit (UCL) on the arithmetic mean, not as a 'not to exceed' soil concentration (DTSC 2011).

DTSC' Lead Spread Model Version 8.0 was used to estimate blood lead levels for children using the following DTSC's default exposure parameters:

EXPOSURE PARAMETERS		
	units	children
Days per week	days/wk	7
Geometric Standard Deviation		1.6
Blood lead level of concern (ug/dl)		1
Skin area, residential	cm2	2900
Soil adherence	ug/cm2	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001
Soil ingestion	mg/day	100
Soil ingestion, pica	mg/day	200
Ingestion constant	(ug/dl)/(ug/day)	0.16
Bioavailability	unitless	0.44
Breathing rate	m3/day	6.8
Inhalation constant	(ug/dl)/(ug/day)	0.192

The increase in estimated blood lead level using the 95% UCL concentration for the 90th Percentile was 0.8 µg/dL, below the health-protective criterion of 1 µg/dL. The estimate is conservative and assumes a residential exposure scenario with a child located on the site 7 days per week. Appendix B contains the LeadSpread results.

3.2 PESTICIDE SCREENING

The maximum concentrations of the pesticides detected in samples collected during the Phase I Addendum were compared to EPA Region IX Regional Screening Level (RSL) for residential land use (EPA Region IX November 2018) or DTSC Screening Level (SL) if available (DTSC June 2018). RSLs are updated on a regular basis on EPA Regions IX's website. RSLs are developed using risk assessment guidance from the EPA Superfund program. RSLs are risk-based concentrations derived from standardized equations combining exposure information assumptions with EPA toxicity data. RSLs are considered to be protective for humans (including sensitive groups) over a lifetime.

A summary table is provided below showing the highest reported pesticide concentration at the site and the corresponding residential RSL or SL.

Compound	Maximum Concentration mg/kg	Residential Land Use RSL mg/kg	Residential Land Use RSL Adjusted for Number of Samples mg/kg	Ratio Maximum Concentration to RSL
4,4'-DDD	0.0025	1.9	1.9	0.0013
4,4'-DDE	0.065	2	2	0.032
Dieldrin	0.011	0.034	0.01133	0.97
		Total Risk		1.0E-06

Because there are multiple chemicals detected at the site, the cumulative risk for the site is calculated by summing the individual risk from each chemical

$$\text{Cumulative Risk} = (\text{conc}_x/\text{RSL}_x + \text{conc}_y/\text{RSL}_y + \text{conc}_z/\text{RSL}_z) \times 10^{-6}$$

The estimated carcinogenic risk using the maximum concentrations reported at the site is 1.0x10-6, at the DTSC level of concern of one in a million increased cancer risk and at the low end of the EPA Risk Management range of 1x10-4 to 1x10-6. The calculation is very conservative, health protective, assuming that the user of the site would only be exposed to the highest reported concentrations reported at the site for 30 years, 24 hours per day for 350 days per year.

3.3 CAM-17 METALS SCREENING

None of the soil samples were found to have concentrations above the regional screening levels for the associated CAM-17 Metals. The concentrations of CAM-17 Metals that were found at the site during soil sampling activities were all within acceptable background ranges for Southern California (Kearney, 1996).

3.4 UNCERTAINITY ANALYSIS

The data collected are subject to uncertainty associated with sampling and analysis. In the risk analysis it was assumed that samples collected were representative of conditions to which various populations may be exposed. However, the collected samples may not be completely representative due to biases in sampling and to random variability of samples. In general, sampling was biased toward areas of known and suspected elevated chemical concentrations, which will lead to an overestimation of risk when these results are assumed to represent a larger area. The placement of soil borings was in part, purposely biased to detect and characterize potential hot spots of soil based on historical site use. This type of sampling approach is likely to overestimate the chemical concentrations to which a receptor would be exposed and the potential health impact to the receptors evaluated.

Samples were analyzed using California State Certified Laboratory procedures and were subjected to limited review, to obtain data suitable for decision-making. However, it should be understood that sample analysis is subject to uncertainties associated with precision, accuracy and detection of chemicals at low concentrations.

3. Human Health Screening Evaluation

This page intentionally left blank.

4. Quality Assurance/Quality Control Implementation

The Quality Assurance/Quality Control (QA/QC) Program was implemented in accordance with the DTSC PEA Guidance Manual (DTSC 1999). The primary quality control features of the QA/QC program include the collection and analysis of field quality control samples and the data validation. All proper chain of custody procedures were followed and the chain of custody is included in Appendix A.

Quality control samples collected in the field included equipment rinseate blanks as described in Section 3. The data for these quality control samples were reviewed as part of the data validation process, along with results from laboratory quality control analyses. Data validation was performed in compliance with DTSC's PEA Guidance Manual, using protocols consistent with the USEPA National Functional Guidelines (DTSC 1999). Each sample was analyzed for the specified suite of analyses presented in Section 3. Data from each of the analyses were evaluated with respect to the quality control criteria listed below. Data for the project as a whole were evaluated in terms of completeness.

- Holding times;
- Field blanks;
- Laboratory method and calibration blanks;
- Initial and continuing calibrations;
- System monitoring compounds (surrogates - organic analyses only);
- Laboratory control samples (LCS) and LCS duplicate samples (LCSD) - as applicable;
- Matrix spikes (MS)/Matrix spike duplicates (MSD); and
- Compound identification and quantitation.

Data quality for the project is good, and the data collected are of acceptable quality for use in the screening evaluation.

Data validation qualifier flags have been added to those data that did not meet acceptance criteria defined in School Quality Assurance Project Plans. Results of the validation indicate that all samples collected and analyzed are useful in characterizing the site and assessing the human health and ecological risks for the site. No detectable concentrations were qualified as rejected (R) or were considered to be unusable based on the validation evaluation. Data qualified as estimated (J/UJ) exhibited some bias during analysis and should be

considered as an approximate measure of the respective analyte concentration. Qualified data are presented along with the data results in the analytical summary tables provided in this report.

Field activities were observed to be conducted in a manner consistent with the QA/QC procedures presented in the DTSC PEA Guidance Manual (DTSC 1999). No findings were identified that significantly affect the quality of the samples collected or the resulting data evaluation.

4.1 DATA VALIDATION

Data validation was performed for all samples submitted as part of PlaceWorks evaluation of soil. A & R Laboratories located in Ontario was the lead laboratory for the project and performed the required analyses.

Validation was performed in accordance with the general guidance provided in the USEPA Functional Guidelines for Evaluating Inorganic Analyses (USEPA 1994) and in accordance with the professional judgment of the validation team. Validation was performed to assess analytical performance in terms of the DQOs accuracy, precision, sensitivity, and completeness. Comparability and representativeness DQOs for the samples collected are addressed by the correct implementation of the procedures defined in the sampling and analysis plan.

A summary of the validation program, in terms of the DQOs listed above, is provided in the following sections. Data qualifiers assigned to results, if required, were as follows:

J - Result is estimated due to failure to meet one of the DQO criteria associated with the sample result or associated sample batch. Results reported at concentrations below standard laboratory reporting limits, but above method detection limits, were flagged "J" by the laboratory, or "B" in the case of metals. These data are validated as J/estimated because they are below the reliable quantitation limits determined by the laboratory.

U - Result is qualified as not-detected at the reported value. This qualifier is used when results from blank analyses indicate that detections in associated samples may be biased high due to potential contaminant conditions in the field or laboratory.

UJ - Result is qualified as not-detected at the reported value, and the value is determined to be estimated. This qualifier commonly results when quality control failures are associated with analytes that are not detected, or when detections are qualified "U" due to blank contamination combined with a "J" qualifier resulting from another QC problem.

R - Result is rejected due to severe QC failure, or due to multiple lesser QC problems that are determined to be additive.

4.2 ACCURACY

Accuracy was evaluated by assessing the results of holding times, field and laboratory blanks, initial and continuing calibrations, surrogate spike recoveries (organic analyses), LCS recoveries, MS analyses, and interference check samples (metals by inductively coupled plasma).

Holding times were met for all analyses. Frequency and control criteria for initial and continuing calibration verifications were met. The method blank data showed non-detectable levels for all constituents. LCS analysis was performed at required frequencies and all recoveries were within acceptable limits. Surrogate recoveries for all samples were within acceptable control limits. MS and MSD were performed at the required frequencies. All recoveries were within acceptable limits.

4.3 PRECISION

Precision was evaluated by assessing the results between MS and MSD analyses, LCS and LCSD analyses, between laboratory duplicate analyses. The precision DQO was generally satisfied for the samples collected during the project. Precision was evaluated as the relative percent difference (RPD) between control sample results. RPD criteria reported by the laboratory were used to assess precision. RPDs were within the appropriate control limits.

4.4 SENSITIVITY

Sensitivity was addressed by ensuring that the reporting limits provided by the laboratories met those as requested in the workplans and task orders provided to the laboratory. Data were qualified in cases where results were reported at concentrations below standard laboratory reporting limits, but above the method detection limits that may have been required to meet the sensitivity requirements for the project. Such results were flagged by the laboratory as either J or B qualified data. These data retain a J/estimated qualifier due to potential decreased reliability at low concentration levels.

4.5 COMPLETENESS

Completeness is an evaluation of the overall sampling program with respect to data generated that is usable versus data that may have been rejected. No data was rejected during the data validation process for this project. The completeness objectives (minimum 90 percent) for this project are therefore considered to be satisfied for all analyses.

4.6 DATA VALIDATION CHART

The following table is a summary of pertinent quality indicators that were verified during the data validation process.

4. Quality Assurance/Quality Control Implementation

ACCEPTABILITY		
QUALITY INDICATOR	**SOIL**	**SOIL**
	EPA Method 6010B	EPA Method 8081A
	Target Analyte: Lead	Target Analyte: DDE
Completeness of Laboratory Reports (e.g., laboratory, client, and sample identifications; ELAP certification number, project name, sample matrix, sample collection, preservation, preparation, extraction, analysis dates; analytical methods; analytes; reporting units and limits; dilution factors; report page numbering system; designated title and signatures)	Y See discussion Section 4	Y See discussion Section 4
Reporting Limit (RL)	Y 0.5 mg/kg	Y 0.002 mg/kg
Chain of Custody	Y	Y
Sample Containers and Conditions	Y	Y
Holding Time (<28 days)	Y	Y
Sample Preservation	Y	Y
Equipment Rinsate Blanks	Y	Y
Field Duplicates	Y	Y
Field QC Samples – Others	NA	NA
Surrogate Recoveries	NA	NA
Method Blanks	Y	Y
LCS % Recovery	Y	Y
MS/MSD % Recovery	See discussion Section 4	See discussion Section 4
MS/MSD % RPD	See discussion Section 4	See discussion Section 4
Laboratory Duplicates	See discussion Section 4	See discussion Section 4
Laboratory QC Samples – Others	NA	NA
Compound Identification	Y	Y
Compound Quantitation	Y	Y
Dilution Factors	Y	Y
Data Qualifiers	Y	Y
Confirmation of Positive Samples	NA	NA
Observations of Significance	NA	NA
Case Narrative	Y	Y
Instrument Tuning	NA	NA
Initial Calibration	Lab	Lab
Calibration Verification	Lab	Lab
Interference Check Standard	NA	NA
Others	NA	NA

5. Health and Safety Procedures

PlaceWorks followed a site-specific HASP pursuant to Health and Safety Code 1910.120. The plan addressed the following:

- Identification and description of potentially hazardous substances that may be encountered during field operations;
- PPE and clothing for site activities; and
- Measures that need to be implemented in the event of an emergency.

PlaceWorks field personnel reviewed the HASP prior to commencing fieldwork. Prior to initiation of field activities each day, a site safety briefing was conducted to identify potential physical and chemical hazards and measures to be taken in event of an emergency. All on-site personnel were required to sign the site safety briefing form.

During field activities, all personnel within the exclusion zone wore appropriate level D PPE. No incidents or emergency actions related to site sampling occurred during the field program.

5. Health and Safety Procedures

This page intentionally left blank.

6. Conclusions and Recommendations

This document presents a Phase I Addendum Report for the Riverside Unified School District Eastside School Expansion Project: Site D Lincoln Park, Riverside, Riverside County, California. Figure 1 shows the regional location of the site and Figure 2 shows the local Vicinity. Figure 3 shows the subareas for the proposed school site expansion including Site D, Lincoln Park. Figure 4 is an aerial photograph showing the boundaries of the school site. This Phase I Addendum was prepared by PlaceWorks on behalf of Riverside Unified School District pursuant to the California Education Code which requires that all new school projects to obtain a "No Further Action" (NFA) determination from the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) prior to proceeding with property acquisition and/or construction of a school.

The District is seeking DTSC approval for the proposed expansion of the Lincoln High School campus. The District is seeking to acquire Lincoln Park, associated with the [APN] 211-231-001.

Sampling was conducted using the DTSC's *Interim Guidance for Evaluating School Sites with Potential Soil Contamination as a result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers* (June 2006). The soil sampling was conducted on August 28, 2018 on the 3.66 acre park site. This report summarizes the lead and OCP testing results.

The sampling program and results are summarized below:

- A total of 80 soil samples plus 14 duplicates were collected. Samples were collected from 40 locations from 0 to 0.5 feet below ground surface (bgs) and from 2.5 to 3.0 feet bgs. Sample locations were selected based on surface covering, location of historic structures, low lying areas and proximity to driplines.

- Five composite soil samples and one composite duplicate soil sample plus six discrete samples and one discrete duplicate sample were analyzed for organochlorine pesticides by a State certified laboratory using United States Environmental Protection Agency (EPA) Method 8081A to evaluate the possible impact to soil from termiticides that may have been used on the site to protect former and current structures. Samples were analyzed from both the soil surfaces to 0.5 and from 2.5 feet bgs.

- Forty-six soil samples plus four duplicates were collected at surface to 0.5 feet to 2.5' and analyzed discretely for lead by EPA Method 6010B to evaluate the possible impact to soil from lead-based paint from former and current building materials.

6. Conclusions and Recommendations

- Seven soil samples plus one duplicate that were collected from the surface to 0.5 feet or from 2.5' were analyzed discretely for CAM-17 Metals by EPA Method 6010B to evaluate the possible impacts to soil from historic structures.

- Three OCPs (4,4'-DDD, 4,4'-DDE, and dieldrin) were detected in some of the soil samples analyzed for OCPs. Pesticide concentrations were below their respective EPA Region 9 Residential Regional Screening Levels (RSLs) and DTSC's modified Screening Levels. Composite sample B-21, B-22, B-26 at 0.5' bgs had a concentration of dieldrin of 0.011 mg/kg, which is the EPA Region 9 Regional Screening Level (EPA RSL) for dieldrin adjusted for a 3:1 composite (0.011 mg/kg).

- Lead was detected in all 46 soil samples plus the four duplicate samples above laboratory detection limits. Lead concentrations ranged from 3.77 milligrams per kilogram (mg/kg) to 168 mg/kg at 0.5' bgs. The DTSC screening level for lead is 80 mg/kg. Samples tested at 2.5' bgs had concentrations that ranged from 3.89 mg/kg to 4.97 mg/kg. All lead concentrations at 2.5' bgs were below DTSC's lead screening level of 80 mg/kg.

- Statistical analysis using EPA's ProUCL software program was used to analyze the lead data which calculated that the 95% Upper Confidence Limit (UCL) lead concentration at the site was 64.4 mg/kg, below the DTSC lead screening level.

- Eleven CAM-17 Metals were detected in the soil samples analyzed. Barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were reported above laboratory screening limits in all eight samples, including duplicates. Arsenic and cadmium were detected in two samples and silver was found above laboratory screening limits in one sample.

- Risk estimates were calculated for the site using both the PEA screening level assessment method. The risk estimates show that the levels at the site do not pose a human health risk to the students or to the staff using an unrestricted residential land use scenario.

The results of the Phase I Addendum support the following conclusions and recommendations:

Per California Education Code Section 17213.1, Section 3, and the results of the Phase I Addendum, PlaceWorks conclude that further investigation of the site is not necessary.

7. References

1. American Society for Testing and Materials (ASTM) Practice for ESAs: Phase I Assessments Process (ASTM Standard E 1527-13), November 2013.
2. California Department of Toxic Substances Control (DTSC), 2001. Phase I Environmental Site Assessment Advisory: School Property Evaluations, Revised September 5, 2001.
3. California Department of Toxic Substances Control (DTSC), 2006. Guidance for Evaluating School Sites with Potential Soil Contamination as a result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers dated June 2006 .
4. California Department of Toxic Substances Control (DTSC), 2011. User's Guide to Leadspread 8 and Recommendation for Evaluation of Lead Exposures in Adults. Human and Ecological Risk Office. September 2011.
5. California Department of Toxic Substances Control (DTSC), 2015, Preliminary Endangerment Assessment Guidance Manual, January 1994, Interim Final – Revised October 2015.
6. California Department of Toxic Substances Control (DTSC), 2018. Human Health Risk Assessment (HHRA) Note Number 3, DTSC –modified Screening Levels (DTSC-SLs). June 2018.
7. Kearney Foundation Special Report, 1996. Background Concentrations of Trace and Major Elements in California Soils. Kearney Foundation of Soil Science Division of Agriculture and Natural Resources University of California. March 1996.
8. PlaceWorks, 2018. Phase I Environmental Site Eastside School: Site D Lincoln Park for Riverside Unified School District. September 2018.
9. USEPA, 1991. Office of Emergency and Remedial Response (OERR) Directive 9345.3-02. Management of Investigation-Derived Wastes During Site Inspections. May.
10. USEPA, 1994. Office of Solid Waste and Emergency Response. Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses. Publication 9240.1-26.
11. USEPA, 2018. Pacific Southwest, Region 9. Regional Screening Levels. Updated November 2018. https://semspub.epa.gov/work/03/2229085.pdf

7. References

This page intentionally left blank.

Tables

This page intentionally left blank.

TABLE 1
SAMPLING AND ANALYSIS PROGRAM
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

Sample Number	Depth (feet bgs)	Date	Rationale	EPA 8081A OCPs	EPA 6010B/7471A CAM 17 Metals	EPA 6010B Lead
B-1	0.5'	8/28/2018	Structures			D
	2.5'					
B-2	0.5'	8/28/2018	Structures			D
	2.5'					
B-3	0.5'	8/28/2018	Structures			D
	2.5'					
B-4	0.5'	8/28/2018	Structures			D
	2.5'					
B-5	0.5'	8/28/2018	Structures			D
	2.5'					
B-6	0.5'	8/28/2018	Structures			D
	2.5'					D
B-7	0.5'	8/28/2018	Structures	D	D	
	2.5'			D	D	
B-8	0.5'	8/28/2018	Structures			D
	2.5'					
B-9	0.5'	8/28/2018	Structures		D	
	2.5'				D	
B-10	0.5'	8/28/2018	Structures			D
	2.5'					D
B-11	0.5'	8/28/2018	Structures			D
	2.5'					
B-12	0.5'	8/28/2018	Structures			D
	2.5'					D
B-13	0.5'	8/28/2018	Structures			D
	2.5'					
B-14	0.5'	8/28/2018	Structures			D
	2.5'					
B-15	0.5'	8/28/2018	Structures			D
	2.5'					
B-16	0.5'	8/28/2018	Structures			D
	2.5'					
B-17	0.5'	8/28/2018	Structures			D
	2.5'					
B-18	0.5'	8/28/2018	Structures			D
	2.5'					
B-19	0.5'	8/28/2018	Structures			D
	2.5'					
B-19 DUP	0.5'	8/28/2018	Structures			DUP
	2.5'					
B-20	0.5'	8/28/2018	Structures	Composite B-20, B-25, B-32, B-38		D
	2.5'					
B-20 DUP	0.5'	8/28/2018	Structures	Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP		
	2.5'					
B-21	0.5'	8/28/2018	Structures	Composite B-21, B-22, B-26		D
	2.5'					
B-22	0.5'	8/28/2018	Structures	Composite B-21, B-22, B-26		D
	2.5'					
B-23	0.5'	8/28/2018	Structures			D
	2.5'					
B-24	0.5'	8/28/2018	Structures			D
	2.5'					
B-25	0.5'	8/28/2018	Structures	Composite B-20, B-25, B-32, B-38	D	
	2.5'					
B-25 DUP	0.5'	8/28/2018	Structures	Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP		
	2.5'					
B-26	0.5'	8/28/2018	Structures	Composite B-21, B-22, B-26		D
	2.5'					

TABLE 1
SAMPLING AND ANALYSIS PROGRAM
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

Sample Number	Depth (feet bgs)	Date	Rationale	EPA 8081A OCPs	EPA 6010B/7471A CAM 17 Metals	EPA 6010B Lead
B-27	0.5'	8/28/2018	Structures	Composite B-27, B-28, B-29, B-34		**D**
	2.5'					
B-28	0.5'	8/28/2018	Structures	Composite B-27, B-28, B-29, B-34		**D**
	2.5'					
B-29	0.5'	8/28/2018	Structures	Composite B-27, B-28, B-29, B-34		**D**
	2.5'					
B-30	0.5'	8/28/2018	Structures	**D**	**D**	
	2.5'			**D**	**D**	
B-30 DUP	0.5'	8/28/2018	Structures	**D**	**DUP**	
	2.5'					
B-31	0.5'	8/28/2018	Structures			**D**
	2.5'					
B-32	0.5'	8/28/2018	Structures	Composite B-20, B-25, B-32, B-38		**D**
	2.5'					
B-32 DUP	0.5'	8/28/2018	Structures	Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP		**D**
	2.5'					
B-33	0.5'	8/28/2018	Structures	Composite B-33, B-35, B-39, B-40		**D**
	2.5'					
B-33 DUP	0.5'	8/28/2018	Structures			**DUP**
	2.5'					
B-34	0.5'	8/28/2018	Structures	Composite B-27, B-28, B-29, B-34		**D**
	2.5'					
B-35	0.5'	8/28/2018	Structures	Composite B-33, B-35, B-39, B-40		**D**
	2.5'					
B-36	0.5'	8/28/2018	Structures			**D**
	2.5'					
B-37	0.5'	8/28/2018	Structures			**D**
	2.5'					
B-38	0.5'	8/28/2018	Structures	Composite B-20, B-25, B-32, B-38		**D**
	2.5'					
B-38 DUP	0.5'	8/28/2018	Structures	Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP		
	2.5'					
B-39	0.5'	8/28/2018	Structures	Composite B-33, B-35, B-39, B-40		**D**
	2.5'					
B-40	0.5'	8/28/2018	Structures	Composite B-33, B-35, B-39, B-40		**D**
	2.5'					
Total				**3 4:1 C, 1 3:1 C, 1 4:1 C DUP, 3 D, 1 D DUP**	**7 D, 1 DUP**	**46 D, 4 DUP**

Note:
OCPs = organochlorine ptesticides
TPH = total petroleum hydrocarbons
D=Discrecte
C= Composite
DUP= Duplicate Sample

TABLE 2
SUMMARY TABLE OF ORGANOCHLORINE PESTICIDES IN SOIL
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

			Concentration (milligrams per kilogram [mg/kg])		
Sample Number	**Depth (feet bgs)**	**Sample Date**	**4,4´-DDD**	**4,4´-DDE**	**Dieldrin**
B-7	0.5'	8/28/2018	0.0025	0.015	<0.0020
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
B-9	0.5'	8/28/2018	<0.0020	0.0083	<0.0020
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
Composite B-20, B-25, B-32, B-38	0.5'	8/28/2018	<0.0020	0.0025	<0.0020
Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP	0.5'	8/28/2018	<0.0020	0.011	<0.0020
Composite B-21, B-22, B-26	0.5'	8/28/2018	<0.0020	0.014	0.011
Composite B-27, B-28, B-29, B-34	0.5'	8/28/2018	<0.0020	0.0075	0.0074
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
B-30	0.5'	8/28/2018	<0.0020	0.046	<0.0020
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
B-30 DUP	0.5'	8/28/2018	<0.0020	0.065	<0.0020
Composite B-33, B-35, B-39, B-40	0.5'	8/28/2018	<0.0020	<0.0020	<0.0020
Equipment Blank		Concentration micrograms per liter (µg/l)			
EB082818		8/28/2018	<0.050	<0.050	<0.020
Minimum Concentration Detected			0.0025	0.0025	0.0074
Maximum Concentration Detected			0.0025	0.065	0.011
EPA Region 9 Regional Screening Levels			1.9	2	0.034
EPA Region 9 Regional Screening Levels for 3:1 Composites			0.766	0.666	0.01133
EPA Region 9 Regional Screening Levels for 4:1 Composites			0.575	0.5	0.0085

Notes:
< - Non detect at the established method detection limit.
Samples analyzed by EPA Method 8081A
EPA Region 9 Regional Screeening Level November 2018 Residential soil in mg/kg; DTSC SLs 2018 residential soil mg/kg
The complete laboratory analytical reports are included in Appendix D.
Highlighted cell indicates concentration above agency screening levels
DTSC SL= Department of Toxic Substances Control Screening levels

TABLE 3
SUMMARY TABLE OF LEAD IN SOIL
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

		Concentration (milligrams per kilogram [mg/kg])	
Sample Number	**Sample Depth**	**Sample Date**	**Lead**
B-1	0.5'	8/28/2018	65
B-2	0.5'	8/28/2018	34.3
B-3	0.5'	8/28/2018	18.6
B-4	0.5'	8/28/2018	47.2
B-5	0.5'	8/28/2018	73.8
B-6	0.5'	8/28/2018	**168**
	2.5'		4.97
B-7	0.5'	8/28/2018	28.6
	2.5'		3.34
B-8	0.5'	8/28/2018	71.5
B-9	0.5'	8/28/2018	41.6
	2.5'		4.4
B-10	0.5'	8/28/2018	**149**
	2.5'		4.37
B-11	0.5'	8/28/2018	**86.4**
B-12	0.5'	8/28/2018	**122**
	2.5'		3.89
B-13	0.5'	8/28/2018	31.5
B-14	0.5'	8/28/2018	**81**
B-15	0.5'	8/28/2018	67.4
B-16	0.5'	8/28/2018	52.8
B-17	0.5'	8/28/2018	3.77
B-18	0.5'	8/28/2018	25.2
B-19	0.5'	8/28/2018	35.4
B-19 DUP	0.5'	8/28/2018	28
B-20	0.5'	8/28/2018	53.1
B-21	0.5'	8/28/2018	38.9
B-22	0.5'	8/28/2018	51.8
B-23	0.5'	8/28/2018	44.4
B-24	0.5'	8/28/2018	29
B-25	0.5'	8/28/2018	28.8
B-26	0.5'	8/28/2018	40.1
B-27	0.5'	8/28/2018	22.3
B-28	0.5'	8/28/2018	29.3
B-29	0.5'	8/28/2018	20.2
B-30	0.5'	8/28/2018	19
	2.5'		2.69
B-30 DUP	0.5'	8/28/2018	34.1
B-31	0.5'	8/28/2018	35.4
B-32	0.5'	8/28/2018	22.6
B-32 DUP	0.5'	8/28/2018	18.8
B-33	0.5'	8/28/2018	40.1
B-33 DUP	0.5'	8/28/2018	36
B-34	0.5'	8/28/2018	34.6
B-35	0.5'	8/28/2018	**86.9**
B-36	0.5'	8/28/2018	34.2
B-37	0.5'	8/28/2018	37.6
B-38	0.5'	8/28/2018	33
B-39	0.5'	8/28/2018	30.4
B-40	0.5'	8/28/2018	77.6
Number of Samples			50
Number of Detects			50
Minimum			2.69
Maximum			168
95% UCL			64.4
DTSC SLs			80

Notes:
Samples Analyzed by EPA Method 6010B
The complete laboratory analytical reports are included in Appendix D.
95% UCL = 95% Upper confidence limit calculated using EPA ProUCL 5.1
Highlighted cell indicates concentration above agency screening level
DTSC SLs= Department of Toxic Substances Control Screening Levels

TABLE 4
SUMMARY TABLE OF CAM-17 METALS IN SOIL
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

			Concentration (milligrams per kilogram [mg/kg])										
Sample Number	**Sample Depth**	**Sample Date**	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Nickel**	**Sliver**	**Vanadium**	**Zinc**
B-7	0.5'	8/28/2018	1.08	81.4	<0.500	17.6	4.79	14.4	28.6	7.37	<1.00	37	77
	2.5'		<1.00	94.2	<0.500	23.8	7.03	10.6	3.34	10.4	<1.00	51.8	38.7
B-9	0.5'	8/28/2018	1.97	110	0.554	20.4	5.78	15	41.6	8.72	<1.00	44.1	95.5
	2.5'		<1.00	120	<0.500	25.9	8.04	12.1	4.4	11.8	<1.00	58	39.6
B-25	0.5'	8/28/2018	<1.00	124	<0.500	20.1	5.86	13.6	28.8	7.24	<1.00	44.7	93.2
B-30	0.5'	8/28/2018	<1.00	76.4	<0.500	25.3	5.37	22	19	7.8	<1.00	40.1	110
	2.5'		<1.00	83.1	<0.500	20.8	6.14	8.97	2.69	8.94	<1.00	46.1	34.5
B-30 DUP	0.5'	8/28/2018	<1.00	108	0.669	40.2	5.54	41.2	34.1	8.61	2.19	43.2	206
Equipment Blank			Concentration micrograms per liter (µg/l)										
EB082818			<0.0200	<0.0100	<0.00500	<0.0100	<0.00500	**0.0394**	<0.0200	<0.0100	**0.0707**	<0.0100	**0.228**
Minimum Concentration Detected			1.08	76.4	0.554	17.6	4.79	8.97	2.69	7.24	2.19	37	34.5
Maximum Concentration			1.97	124	0.669	40.2	8.04	41.2	41.6	11.8	2.19	58	206
DTSC SL			12						80		390*		
EPA Region 9 RSLs				15000	71	120000	23	3100		1500		390	23000

Notes:

< - Non detect at the established method detection limit.

Samples analyzed by EPA Method 6010 B

The complete laboratory analytical reports are included in Appendix D.

EPA Region 9 RSLs = Environmental Protection Agency Region 9 Regional Screening Levels

DTSC SL=Department of Toxic Subtances Control Screening Levels

*Non-cancer endpoint screening level

TABLE 2
SUMMARY TABLE OF ORGANOCHLORINE PESTICIDES IN SOIL
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

			Concentration (milligrams per kilogram [mg/kg])		
Sample Number	**Depth (feet bgs)**	**Sample Date**	**4,4´-DDD**	**4,4´-DDE**	**Dieldrin**
B-7	0.5'	8/28/2018	0.0025	0.015	<0.0020
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
B-9	0.5'	8/28/2018	<0.0020	0.0083	<0.0020
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
Composite B-20, B-25, B-32, B-38	0.5'	8/28/2018	<0.0020	0.0025	<0.0020
Composite B-20 DUP, B-25 DUP, B-32 DUP, B-38 DUP	0.5'	8/28/2018	<0.0020	0.011	<0.0020
Composite B-21, B-22, B-26	0.5'	8/28/2018	<0.0020	0.014	0.011
Composite B-27, B-28, B-29, B-34	0.5'	8/28/2018	<0.0020	0.0075	0.0074
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
B-30	0.5'	8/28/2018	<0.0020	0.046	<0.0020
	2.5'	8/28/2018	<0.0020	<0.0020	<0.0020
B-30 DUP	0.5'	8/28/2018	<0.0020	0.065	<0.0020
Composite B-33, B-35, B-39, B-40	0.5'	8/28/2018	<0.0020	<0.0020	<0.0020
Equipment Blank		Concentration micrograms per liter (µg/l)			
EB082818		8/28/2018	<0.050	<0.050	<0.020
Minimum Concentration Detected			0.0025	0.0025	0.0074
Maximum Concentration Detected			0.0025	0.065	0.011
EPA Region 9 Regional Screening Levels			1.9	2	0.034
EPA Region 9 Regional Screening Levels for 3:1 Composites			0.766	0.666	0.01133
EPA Region 9 Regional Screening Levels for 4:1 Composites			0.575	0.5	0.0085

Notes:
< - Non detect at the established method detection limit.
Samples analyzed by EPA Method 8081A
EPA Region 9 Regional Screeening Level November 2018 Residential soil in mg/kg; DTSC SLs 2018 residential soil mg/kg
The complete laboratory analytical reports are included in Appendix D.
Highlighted cell indicates concentration above agency screening levels
DTSC SL= Department of Toxic Substances Control Screening levels

TABLE 3
SUMMARY TABLE OF LEAD IN SOIL
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

		Concentration (milligrams per kilogram [mg/kg])	
Sample Number	**Sample Depth**	**Sample Date**	**Lead**
B-1	0.5'	8/28/2018	65
B-2	0.5'	8/28/2018	34.3
B-3	0.5'	8/28/2018	18.6
B-4	0.5'	8/28/2018	47.2
B-5	0.5'	8/28/2018	73.8
B-6	0.5'	8/28/2018	**168**
	2.5'		4.97
B-7	0.5'	8/28/2018	28.6
	2.5'		3.34
B-8	0.5'	8/28/2018	71.5
B-9	0.5'	8/28/2018	41.6
	2.5'		4.4
B-10	0.5'	8/28/2018	**149**
	2.5'		4.37
B-11	0.5'	8/28/2018	**86.4**
B-12	0.5'	8/28/2018	**122**
	2.5'		3.89
B-13	0.5'	8/28/2018	31.5
B-14	0.5'	8/28/2018	**81**
B-15	0.5'	8/28/2018	67.4
B-16	0.5'	8/28/2018	52.8
B-17	0.5'	8/28/2018	3.77
B-18	0.5'	8/28/2018	25.2
B-19	0.5'	8/28/2018	35.4
B-19 DUP	0.5'	8/28/2018	28
B-20	0.5'	8/28/2018	53.1
B-21	0.5'	8/28/2018	38.9
B-22	0.5'	8/28/2018	51.8
B-23	0.5'	8/28/2018	44.4
B-24	0.5'	8/28/2018	29
B-25	0.5'	8/28/2018	28.8
B-26	0.5'	8/28/2018	40.1
B-27	0.5'	8/28/2018	22.3
B-28	0.5'	8/28/2018	29.3
B-29	0.5'	8/28/2018	20.2
B-30	0.5'	8/28/2018	19
	2.5'		2.69
B-30 DUP	0.5'	8/28/2018	34.1
B-31	0.5'	8/28/2018	35.4
B-32	0.5'	8/28/2018	22.6
B-32 DUP	0.5'	8/28/2018	18.8
B-33	0.5'	8/28/2018	40.1
B-33 DUP	0.5'	8/28/2018	36
B-34	0.5'	8/28/2018	34.6
B-35	0.5'	8/28/2018	**86.9**
B-36	0.5'	8/28/2018	34.2
B-37	0.5'	8/28/2018	37.6
B-38	0.5'	8/28/2018	33
B-39	0.5'	8/28/2018	30.4
B-40	0.5'	8/28/2018	77.6
Number of Samples			50
Number of Detects			50
Minimum			2.69
Maximum			168
95% UCL			64.4
DTSC SLs			80

Notes:
Samples Analyzed by EPA Method 6010B
The complete laboratory analytical reports are included in Appendix D.
95% UCL = 95% Upper confidence limit calculated using EPA ProUCL 5.1
Highlighted cell indicates concentration above agency screening level
DTSC SLs= Department of Toxic Substances Control Screening Levels

TABLE 4
SUMMARY TABLE OF CAM-17 METALS IN SOIL
Eastside School Site D: Lincoln Park
Riverside Unified School District
Riverside, California

			Concentration (milligrams per kilogram [mg/kg])										
Sample Number	**Sample Depth**	**Sample Date**	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Nickel**	**Sliver**	**Vanadium**	**Zinc**
B-7	0.5'	8/28/2018	1.08	81.4	<0.500	17.6	4.79	14.4	28.6	7.37	<1.00	37	77
	2.5'		<1.00	94.2	<0.500	23.8	7.03	10.6	3.34	10.4	<1.00	51.8	38.7
B-9	0.5'	8/28/2018	1.97	110	0.554	20.4	5.78	15	41.6	8.72	<1.00	44.1	95.5
	2.5'		<1.00	120	<0.500	25.9	8.04	12.1	4.4	11.8	<1.00	58	39.6
B-25	0.5'	8/28/2018	<1.00	124	<0.500	20.1	5.86	13.6	28.8	7.24	<1.00	44.7	93.2
B-30	0.5'	8/28/2018	<1.00	76.4	<0.500	25.3	5.37	22	19	7.8	<1.00	40.1	110
	2.5'		<1.00	83.1	<0.500	20.8	6.14	8.97	2.69	8.94	<1.00	46.1	34.5
B-30 DUP	0.5'	8/28/2018	<1.00	108	0.669	40.2	5.54	41.2	34.1	8.61	2.19	43.2	206
Equipment Blank			Concentration micrograms per liter (µg/l)										
EB082818			<0.0200	<0.0100	<0.00500	<0.0100	<0.00500	**0.0394**	<0.0200	<0.0100	**0.0707**	<0.0100	**0.228**
Minimum Concentration Detected			1.08	76.4	0.554	17.6	4.79	8.97	2.69	7.24	2.19	37	34.5
Maximum Concentration			1.97	124	0.669	40.2	8.04	41.2	41.6	11.8	2.19	58	206
DTSC SL			12						80		390*		
EPA Region 9 RSLs				15000	71	120000	23	3100		1500		390	23000

Notes:

< - Non detect at the established method detection limit.

Samples analyzed by EPA Method 6010 B

The complete laboratory analytical reports are included in Appendix D.

EPA Region 9 RSLs = Environmental Protection Agency Region 9 Regional Screening Levels

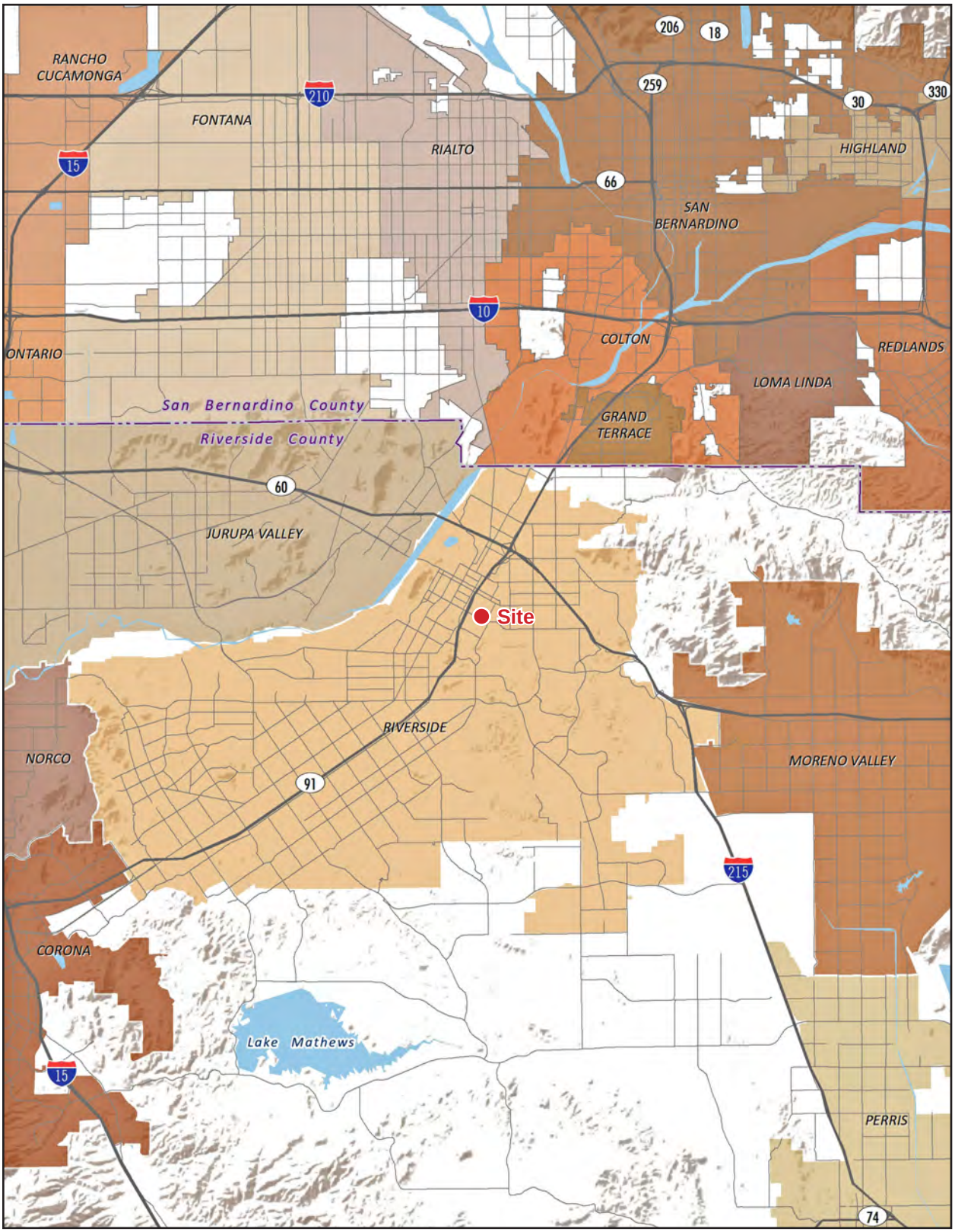
DTSC SL=Department of Toxic Subtances Control Screening Levels

*Non-cancer endpoint screening level

Figures

This page intentionally left blank.

Figure 1 - Regional Location



Note: Unincorporated county areas are shown in white.

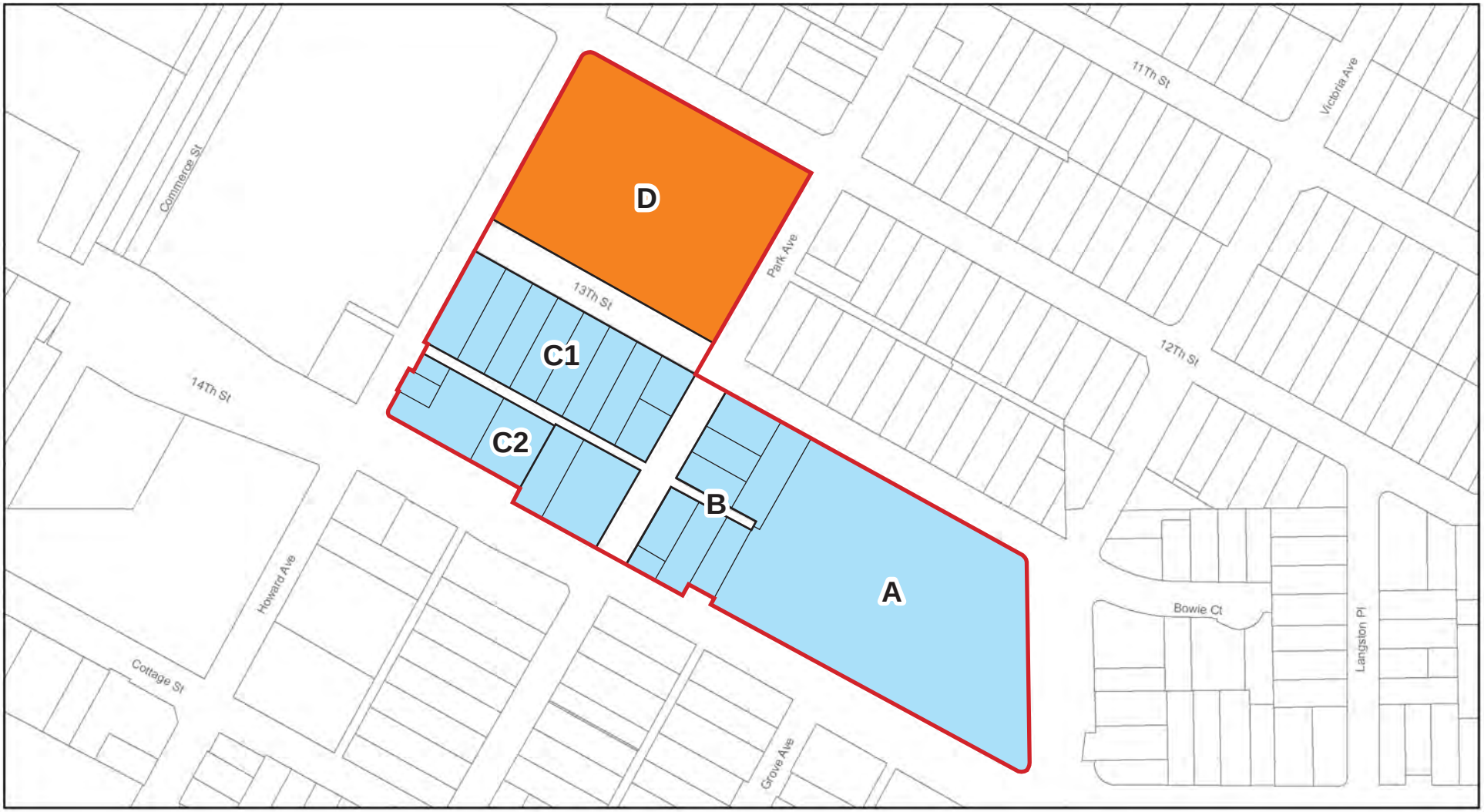
0 3
Scale (Miles)

Source: ESRI, 2018

Figure 2 - Local Area

Source: ESRI, 2018

Figure 3 - Project Subareas



Project Boundary

0 250
Scale (Feet)

Source: ESRI, 2018

Figure 4 - Site D Aerial Photograph

Site D Project Boundary

0 125
Scale (Feet)

Source: ESRI, 2018

Figure 5 - Sampling Locations

Source: ESRI, 2018

Appendix A. Laboratory Reports

Appendix

This page intentionally left blank.

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 09/04/2018 17:28:15
Laboratory Job No. (Certificate of Analysis No.)	1808-00216
Project Name / No.	LINCOLN PARK, RIVERSIDE CA R1V-21.0
Dates Sampled (from/to)	08/28/18 To 08/28/18
Dates Received (from/to)	08/28/18 To 08/28/18
Dates Reported (from/to)	09/04/18 To 9/4/2018
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Other Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
B-9@0.5'	4,4'-DDE	**0.0083**		mg/Kg	0.0020	B-7@0.5'	4,4'-DDD	**0.0025**		mg/Kg	0.0020
B-7@0.5'	4,4'-DDE	**0.015**		mg/Kg	0.0020	B-30@0.5'	4,4'-DDE	**0.046**		mg/Kg	0.0020
B-30DUP@0.5'	4,4'-DDE	**0.065**		mg/Kg	0.0020	COMPOSITE:B-27,B-28,B-29,B-3	4,4'-DDE	**0.0075**		mg/Kg	0.0020
COMPOSITE:B-27,B-28,B-29,B-3	Dieldrin	**0.0074**		mg/Kg	0.0020	COMPOSITE:B-21, B-22, B-26@0	4,4'-DDE	**0.014**		mg/Kg	0.0020
COMPOSITE:B-21, B-22, B-26@0	Dieldrin	**0.011**		mg/Kg	0.0020	COMPOSITE:B-20, B-25, B-32, B-	4,4'-DDE	**0.0025**		mg/Kg	0.0020
COMPOSITE:B-20DUP, B-25DUP,	4,4'-DDE	**0.011**		mg/Kg	0.0020						

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **B-29@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**20.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 002 **B-34@0.5'**					Date & Time Sampled:		08/28/18 @ 7:25	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**34.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 003 **B-28@0.5'**					Date & Time Sampled:		08/28/18 @ 7:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**29.3**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 004 **B-27@0.5'**					Date & Time Sampled:		08/28/18 @ 7:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**22.3**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 005 **B-35@0.5'**					Date & Time Sampled:		08/28/18 @ 7:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**86.9**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 006 **B-40@0.5'**					Date & Time Sampled:		08/28/18 @ 7:47	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**77.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 **B-17@0.5'**					Date & Time Sampled:		08/28/18 @ 7:57	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**3.77**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 008 **B-22@0.5'**					Date & Time Sampled:		08/28/18 @ 7:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**51.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 009 **B-14@0.5'**					Date & Time Sampled:		08/28/18 @ 8:11	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**81.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 010 **B-10@0.5'**					Date & Time Sampled:		08/28/18 @ 8:08	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**149**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 011 **B-5@0.5'**					Date & Time Sampled:		08/28/18 @ 8:18	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**73.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 012 **B-4@0.5'**					Date & Time Sampled:		08/28/18 @ 8:24	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**47.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 013 **B-13@0.5'**					Date & Time Sampled:		08/28/18 @ 8:26	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**31.5**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 014 **B-9@0.5'**					Date & Time Sampled:		08/28/18 @ 8:39	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	**1.97**		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Barium	**110**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	**0.554**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**20.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**5.78**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Copper	**15.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**41.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**8.72**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**44.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**95.5**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 014 **B-9@0.5'**					Date & Time Sampled:		08/28/18 @	8:39
Sample Matrix: **Soil**								
.....continued								
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.0083**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	105		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	109		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 015 **B-9@2.5**					Date & Time Sampled:		08/28/18 @	8:43
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Barium	**120**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**25.9**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Sample: 015 **B-9@2.5** Date & Time Sampled: 08/28/18 @ 8:43
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Cobalt	**8.04**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Copper	**12.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**4.40**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**11.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**58.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**39.6**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 015 **B-9@2.5** Sample Matrix: **Soil**					Date & Time Sampled:		08/28/18 @ 8:43	
.....continued								
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	90		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	103		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 016 **B-16@0.5'** Sample Matrix: **Soil**					Date & Time Sampled:		08/28/18 @ 8:49	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**52.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 017 **B-21@0.5'** Sample Matrix: **Soil**					Date & Time Sampled:		08/28/18 @ 8:50	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**38.9**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 018 **B-26@0.5'** Sample Matrix: **Soil**					Date & Time Sampled:		08/28/18 @ 8:49	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**40.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 019 **B-33@0.5'** Sample Matrix: **Soil**					Date & Time Sampled:		08/28/18 @ 9:13	
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**40.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 020 **B-33DUP0.5'**					Date & Time Sampled:		08/28/18 @ 9:14	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**36.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 021 **B-39@0.5'**					Date & Time Sampled:		08/28/18 @ 9:20	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**30.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 022 **B-38@0.5'**					Date & Time Sampled:		08/28/18 @ 9:27	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**33.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 023 **B-32@0.5'**					Date & Time Sampled:		08/28/18 @ 9:32	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**22.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 024 **B-32DUP@0.5'**					Date & Time Sampled:		08/28/18 @ 9:33	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**18.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 025 **B-25@0.5'**					Date & Time Sampled:		08/28/18 @ 9:38	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 025 **B-25@0.5'**					Date & Time Sampled:		08/28/18 @ 9:38	
Sample Matrix: **Soil**								
.....continued								
Barium	**124**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**20.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**5.86**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Copper	**13.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**28.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**7.24**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**44.7**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**93.2**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
Sample: 026 **B-20@0.5'**					Date & Time Sampled:		08/28/18 @ 9:48	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**53.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 027 **B-15@0.5'**					Date & Time Sampled:		08/28/18 @ 9:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**67.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 028 **B-12@0.5'**					Date & Time Sampled:		08/28/18 @ 10:00	
Sample Matrix: **Soil**								

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 028 **B-12@0.5'**					Date & Time Sampled:		08/28/18 @ 10:00	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**122**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 029 **B-3@0.5'**					Date & Time Sampled:		08/28/18 @ 10:16	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**18.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 030 **B-8@0.5'**					Date & Time Sampled:		08/28/18 @ 10:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**71.5**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 031 **B-2@0.5'**					Date & Time Sampled:		08/28/18 @ 10:19	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**34.3**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 032 **B-7@0.5'**					Date & Time Sampled:		08/28/18 @ 10:25	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	**1.08**		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Barium	**81.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**17.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**4.79**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Sample: 032 **B-7@0.5'** Date & Time Sampled: 08/28/18 @ 10:25
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Copper	**14.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**28.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**7.37**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**37.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**77.0**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	**0.0025**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.015**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 032 **B-7@0.5'**					Date & Time Sampled:		08/28/18 @ 10:25	
Sample Matrix: **Soil**								
.....continued								
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	117		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	130		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 033 **B-7@2.5'**					Date & Time Sampled:		08/28/18 @ 10:29	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Barium	**94.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**23.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**7.03**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Copper	**10.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**3.34**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**10.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**51.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**38.7**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 033 **B-7@2.5'**					Date & Time Sampled:		08/28/18 @ 10:29	
Sample Matrix: **Soil**								
.....continued								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	109		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	111		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 034 **B-6@0.5'**					Date & Time Sampled:		08/28/18 @ 10:42	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**168**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 035 **B-11@0.5'**					Date & Time Sampled:		08/28/18 @ 10:55	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**86.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 036 **B-1@0.5'**					Date & Time Sampled:		08/28/18 @ 11:03	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**65.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 037 **B18@0.5'**					Date & Time Sampled:		08/28/18 @ 11:12	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**25.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 038 **B-23@0.5'**					Date & Time Sampled:		08/28/18 @ 11:10	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**44.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 039 **B-30@0.5'**					Date & Time Sampled:		08/28/18 @ 11:17	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Barium	**76.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**25.3**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**5.37**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Sample: 039 **B-30@0.5'** Date & Time Sampled: 08/28/18 @ 11:17
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Copper	**22.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**19.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**7.80**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**40.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**110**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.046**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 039 **B-30@0.5'**					Date & Time Sampled:		08/28/18 @ 11:17	
Sample Matrix: **Soil**								
.....continued								
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	112		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	123		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 040 **B-30DUP@0.5'**					Date & Time Sampled:		08/28/18 @ 11:17	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Barium	**108**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	**0.669**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**40.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**5.54**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Copper	**41.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**34.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**8.61**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	**2.19**		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**43.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**206**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 040 **B-30DUP@0.5'**					Date & Time Sampled:		08/28/18 @ 11:17	
Sample Matrix: **Soil**								
.....continued								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.065**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	121		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	114		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 041 **B-30@2.5'**					Date & Time Sampled:		08/28/18 @ 11:19	
Sample Matrix: **Soil**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Sample: 041 **B-30@2.5'** Date & Time Sampled: 08/28/18 @ 11:19
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Barium	**83.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Chromium	**20.8**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Cobalt	**6.14**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Copper	**8.97**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Lead	**2.69**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Nickel	**8.94**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	08/29/18	TLB
Vanadium	**46.1**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Zinc	**34.5**		mg/Kg	EPA 6010B	1.0	5.00	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		09/04/18	JEN
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	09/04/18	JEN
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 041 **B-30@2.5'**					Date & Time Sampled:		08/28/18 @ 11:19	
Sample Matrix: **Soil**								
.....continued								
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	87		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	127		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 042 **B-36@0.5'**					Date & Time Sampled:		08/28/18 @ 11:23	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**34.2**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 043 **B-37@0.5'**					Date & Time Sampled:		08/28/18 @ 11:34	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**37.6**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 044 **B-31@0.5'**					Date & Time Sampled:		08/28/18 @ 11:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**35.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 045 **B-24@0.5'**					Date & Time Sampled:		08/28/18 @ 11:40	
Sample Matrix: **Soil**								

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 045 **B-24@0.5'**					Date & Time Sampled:		08/28/18 @ 11:40	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**29.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 046 **B-19@0.5'**					Date & Time Sampled:		08/28/18 @ 11:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**35.4**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 047 **B-19DUP@0.5'**					Date & Time Sampled:		08/28/18 @ 11:46	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		08/29/18	TLB
Lead	**28.0**		mg/Kg	EPA 6010B	1.0	0.500	08/29/18	TLB
Sample: 048 **EB082818**					Date & Time Sampled:		08/28/18 @ 12:12	
Sample Matrix: **Aqueous**								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3010A	1.0		08/29/18	TLB
Antimony	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/29/18	TLB
Arsenic	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/29/18	TLB
Barium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/29/18	TLB
Beryllium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	08/29/18	TLB
Cadmium	<0.00500		mg/L	EPA 6010B	1.0	0.00500	08/29/18	TLB
Chromium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/29/18	TLB
Cobalt	<0.00500		mg/L	EPA 6010B	1.0	0.00500	08/29/18	TLB
Copper	**0.0394**		mg/L	EPA 6010B	1.0	0.0100	08/29/18	TLB
Lead	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/29/18	TLB
Molybdenum	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/29/18	TLB
Nickel	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/29/18	TLB
Selenium	<0.0200		mg/L	EPA 6010B	1.0	0.0200	08/29/18	TLB
Silver	**0.0707**		mg/L	EPA 6010B	1.0	0.0200	08/29/18	TLB

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Sample: 048 **EB082818** Date & Time Sampled: 08/28/18 @ 12:12
Sample Matrix: **Aqueous**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Thallium	<0.100		mg/L	EPA 6010B	1.0	0.100	08/29/18	TLB
Vanadium	<0.0100		mg/L	EPA 6010B	1.0	0.0100	08/29/18	TLB
Zinc	**0.228**		mg/L	EPA 6010B	1.0	0.0400	08/29/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7470A	1.0		09/04/18	JEN
Mercury	<0.500		ug/L	EPA 7470A	1.0	0.500	09/04/18	JEN
[Pesticides]								
Sep Funnel LLE	Complete			EPA 3510C	1.0		08/29/18	AR
Aldrin	<0.040		µg/L	EPA 8081A	1.0	0.040	08/30/18	AR
alpha-BHC	<0.030		µg/L	EPA 8081A	1.0	0.030	08/30/18	AR
beta-BHC	<0.060		µg/L	EPA 8081A	1.0	0.060	08/30/18	AR
delta-BHC	<0.090		µg/L	EPA 8081A	1.0	0.090	08/30/18	AR
gamma-BHC	<0.040		µg/L	EPA 8081A	1.0	0.040	08/30/18	AR
Chlordane	<0.50		µg/L	EPA 8081A	1.0	0.50	08/30/18	AR
4,4'-DDD	<0.050		µg/L	EPA 8081A	1.0	0.050	08/30/18	AR
4,4'-DDE	<0.050		µg/L	EPA 8081A	1.0	0.050	08/30/18	AR
4,4'-DDT	<0.050		µg/L	EPA 8081A	1.0	0.050	08/30/18	AR
Dieldrin	<0.020		µg/L	EPA 8081A	1.0	0.020	08/30/18	AR
Endosulfan I	<0.050		µg/L	EPA 8081A	1.0	0.050	08/30/18	AR
Endosulfan II	<0.040		µg/L	EPA 8081A	1.0	0.040	08/30/18	AR
Endosulfan Sulfate	<0.10		µg/L	EPA 8081A	1.0	0.10	08/30/18	AR
Endrin	<0.050		µg/L	EPA 8081A	1.0	0.050	08/30/18	AR
Endrin Aldehyde	<0.10		µg/L	EPA 8081A	1.0	0.10	08/30/18	AR
Endrin Ketone	<0.50		µg/L	EPA 8081A	1.0	0.50	08/30/18	AR
Heptachlor	<0.030		µg/L	EPA 8081A	1.0	0.030	08/30/18	AR
Heptachlor Epoxide	<0.080		µg/L	EPA 8081A	1.0	0.080	08/30/18	AR
Methoxychlor	<0.040		µg/L	EPA 8081A	1.0	0.040	08/30/18	AR
Toxaphene	<0.50		µg/L	EPA 8081A	1.0	0.50	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	129		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	123		%REC	EPA 8081A/8082		50-150	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 049 **COMPOSITE:B-27,B-28,B-29,B-34@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.0075**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	**0.0074**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	110		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	108		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 050 **COMPOSITE:B-27, B-28, B-29, B-34@2.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 050 **COMPOSITE:B-27, B-28, B-29, B-34@2.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
.....continued								
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	97		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	91		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 051 **COMPOSITE:B-21, B-22, B-26@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 051 **COMPOSITE:B-21, B-22, B-26@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
.....continued								
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.014**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	**0.011**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	122		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	108		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 052 **COMPOSITE:B-33, B-35, B-39, B-40@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 052 **COMPOSITE:B-33, B-35, B-39, B-40@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
.....continued								
4,4'-DDE	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	107		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	118		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 053 **COMPOSITE:B-20, B-25, B-32, B-38@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.0025**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 053 **COMPOSITE:B-20, B-25, B-32, B-38@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
.....continued								
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	117		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	111		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Sample: 054 **COMPOSITE:B-20DUP, B-25DUP, B-32DUP B-38DUP@0.5'**					Date & Time Sampled:		08/28/18 @ 7:18	
Sample Matrix: **Soil**								
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		08/29/18	AR
Aldrin	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
alpha-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
beta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
delta-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
gamma-BHC	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
4,4'-DDD	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDE	**0.011**		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
4,4'-DDT	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Dieldrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan I	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Endosulfan II	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endosulfan Sulfate	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1808-00216

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/04/18
Date Received	08/28/18
Invoice No.	83397
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Sample: 054 **COMPOSITE:B-20DUP, B-25DUP, B-32DUP B-38DUP@0.5'** Date & Time Sampled: 08/28/18 @ 7:18
Sample Matrix: **Soil**
.....continued

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Endrin	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin Aldehyde	<0.0020		mg/Kg	EPA 8081A	1.0	0.0020	08/30/18	AR
Endrin ketone	<0.100		mg/Kg	EPA 8081A	1.0	0.100	08/30/18	AR
Heptachlor	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Heptachlor Epoxide	<0.0010		mg/Kg	EPA 8081A	1.0	0.0010	08/30/18	AR
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	08/30/18	AR
Toxaphene	<0.020		mg/Kg	EPA 8081A	1.0	0.020	08/30/18	AR
[Surrogates]								
Tetrachloro-m-xylene	126		%REC	EPA 8081A/8082		50-150	08/30/18	AR
Decachlorobiphenyl	110		%REC	EPA 8081A/8082		50-150	08/30/18	AR

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

1808-00216

PLACEWORKS
ONTARIO, CA 91764

Date Reported	**09/04/2018**
Date Received	**08/28/2018**
Date Sampled	**08/28/2018**
Invoice No.	**83397**
Customer #	**P135**
Customer P.O.	**R1V-21.0**

Project: LINCOLN PARK, RIVERSIDE CA

Method # EPA 6010B

QC Reference # 75882 **Date Analyzed:** 8/29/2018 **Technician:** TLB

Samples 001 002 003 004 005 006 007 008 009 010 011 012 013 016 017 018 019 020 021 022

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	97	98	0.5	95	96	0.8

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 75883 **Date Analyzed:** 8/29/2018 **Technician:** TLB

Samples 023 024 026 027 028 029 030 031 034 035 036 037 038 042 043 044 045 046 047

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Lead	99	98	0.7	87	88	0.8

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20

QC Reference # 75884 **Date Analyzed:** 8/29/2018 **Technician:** TLB

Samples 014 015 025 032 033 039 040 041

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Antimony	102	102	0.6	92	92	0.1
Arsenic	99	99	0.6	105	105	0.3
Barium	99	99	0.4	102	109	2.2
Beryllium	100	100	0.4	117	118	0.5
Cadmium	99	99	0.0	99	99	0.5
Chromium	99	99	0.3	97	98	0.6
Cobalt	99	99	0.1	91	92	0.3
Copper	99	99	0.7	107	108	0.8
Lead	99	99	0.1	83	84	0.4
Molybdenum	100	100	0.1	98	98	0.7
Nickel	99	99	0.3	89	89	0.4
Selenium	98	98	0.1	89	89	0.6
Silver	99	98	0.4	109	110	0.8
Thallium	99	100	0.1	98	100	2.7
Vanadium	99	99	0.4	103	102	0.4
Zinc	99	99	0.0	81	82	0.4

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20
75 - 125	0 - 20	0 - 20

QC Reference # 75885 **Date Analyzed:** 8/29/2018 **Technician:** TLB

Samples 048

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

PLACEWORKS **1808-00216**

Date Reported 09/04/2018
Date Received 08/28/2018
Date Sampled 08/28/2018

Project: LINCOLN PARK, RIVERSIDE CA

Method # EPA 6010B
QC Reference # 75885 **Date Analyzed:** 8/29/2018 **Technician:** TLB
Samples 048

Results

	LCS %REC	LCS %DUP	LCS %RPD
Antimony	102	101	0.9
Arsenic	100	99	1.1
Barium	99	101	1.2
Beryllium	99	99	0.4
Cadmium	99	99	0.5
Chromium	98	97	0.6
Cobalt	99	99	0.5
Copper	99	99	0.4
Lead	99	99	0.5
Molybdenum	100	100	0.4
Nickel	99	99	0.3
Selenium	99	98	0.8
Silver	99	98	0.9
Thallium	99	99	0.2
Vanadium	100	99	0.6
Zinc	99	98	0.5

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 25
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20
75 - 125	0 - 20

Method # EPA 7470A
QC Reference # 75985 **Date Analyzed:** 9/4/2018 **Technician:** JEN
Samples 048

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	100	96	4	102	104	1

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 7471A
QC Reference # 75980 **Date Analyzed:** 9/4/2018 **Technician:** JEN
Samples 014 015 025 032 033 039 040 041

Results

	LCS %REC	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
Mercury	102	108	96	94	2

Control Ranges

LCS %REC	LCS %RPD	SPIKE %RPD
75 - 125	0 - 25	0 - 25

Method # EPA 8081A
QC Reference # 75932 **Date Analyzed:** 8/30/2018 **Technician:** AR
Samples 014 015 032 033 039 040 041 049 050 051 052 053 054

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

PLACEWORKS

1808-00216

Date Reported 09/04/2018
Date Received 08/28/2018
Date Sampled 08/28/2018

Project: LINCOLN PARK, RIVERSIDE CA

Method # EPA 8081A

QC Reference # 75932 **Date Analyzed:** 8/30/2018 **Technician:** AR

Samples 014 015 032 033 039 040 041 049 050 051 052 053 054

Results

	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD
4,4'-DDT	77	90	90	0
Aldrin	85	105	100	4
Dieldrin	123	125	130	4
Endrin	93	115	115	0
gamma-BHC	95	105	100	4
Heptachlor	82	105	95	9

Control Ranges

LCS %REC	SPIKE %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

QC Reference # 75935 **Date Analyzed:** 8/30/2018 **Technician:** AR

Samples 048

Results

	LCS %REC	LCS %DUP	LCS %RPD
4,4'-DDT	93	91	2.0
Aldrin	149	170	21.0
Dieldrin	128	128	0.0
Endrin	112	117	6.0
gamma-BHC	128	177	49.0
Heptachlor	135	126	23.0

Control Ranges

LCS %REC	LCS %RPD
50 - 130	0 - 30
50 - 140	0 - 30
70 - 130	0 - 30
70 - 150	0 - 30
50 - 150	0 - 30
50 - 150	0 - 30

Method # EPA 8081A/8082

QC Reference # 75932 **Date Analyzed:** 8/30/2018 **Technician:** AR

Samples 014 015 032 033 039 040 041 049 050 051 052 053 054

No QC recoveries reported.

QC Reference # 75935 **Date Analyzed:** 8/30/2018 **Technician:** AR

Samples 048

No QC recoveries reported.

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1808-216

Client Name: PLACEWORKS
E-mail: DCLENDENING@PLACEWORKS.COM
Address: 625 INLAND CENTER #3 ONTARIO CA 91764
Report Attention: Denise
Phone #: 909 989 4449
Fax: #
Sampled By: M. Watson
Project No./ Name: RIV-21.0
Project Site: Lincoln Park, Riverside, CA

☒ Chilled
☒ Intact
☐ Seal

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	6010B Lead					Hold	Remarks (C=composite, G=grab)
1	B-29 @0.5'	8/28/18	7:18	soil	ice	1 glass jar					C					X						See B-27 @0.5'
	B-29 @2.5'	8/28/18	7:21								C										X1	See B-27 @2.5'
2	B-34 @0.5'		725								C					X						See B-27 @0.5
	B-34 @2.5'		730								C											See B-27 @2.5
3	B-28 @0.5'		733								C					X						See B-27 @0.5
	B-28 @2.5'		739								C											See B-27 @2.5'
4	B-27 @0.5'		733								C					X				(49)		B-27 B-28, B-29, B-34 @0.5'
	B-27 @2.5'		734								C									(60)		B-27 B-28 B-29, B-34 @2.5'
5	B-35 @0.5'		0742								C					X						See B-33 @0.5
	B-35 @2.5'		744																		X	
6	B-40 @0.5'		747								C					X						See B-33 @0.5'
	B-40 @2.5		750																			
7	B-17 @0.5'		757													X						
	B-17 @2.5'		759																		X	
8	B-22 @0.5'		755								C					X						See B-21 @0.5

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	PLACEWORKS	8/28/18	1415	Victoria Castello	AR	8/28/18	14:15
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1808-216

Client Name: PLACEWORKS
E-mail: DCLENDENING@PLACEWORKS.COM
Address: 1980 INLAND EMPIRE BLVD ONTARIO CA 91764
Report Attention: Denise
Phone #: 9099894499
Fax: #
Sampled By: M. Watson
Project No./ Name: RIV-210
Project Site: Lincoln Park, Riverside, CA

☑ Chilled ☑ Intact ☐ Seal

Analyses Requested

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☑ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Gold Lead					Hold	Remarks
	B-22@2.5'	8/28/18	0805	soil	ice	1glass jar															X	C=composite X=discrete
9	B-14@0.5'		0811													X						
	B-14@2.5'		0813																		X	
10	B-10@0.5'		0808													X						
	B-10@2.5'		0815																		X	
11	B-5@0.5'		0818													X						
	B-5@2.5'		0822																		X	
12	B-4@0.5'		0824													X						
	B-4@2.5'		0839																		X	
13	B-13@0.5'		0826													X						
	B-13@2.5'		0836																		X	
14	B-9@0.5'		0839								X		X									
15	B-9@2.5'		0843								X		X									
16	B-16@0.5'		0849													X						
	B-16@2.5'		0859																		X	

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	PLACEWORKS	8/28/18	1415	Victoria Castello	AK	8/28	14:15
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1808-216

Client Name: PLACEWORKS
E-mail: DCLEMENG@PLACEWORKS.COM
Address: 2850 INLAND EMPIRE BLVD ONTARIO CA 91764
Report Attention: Denise
Phone #: 909 989 4449
Fax: #
Sampled By: M Watson
Project No./ Name: RIV-210
Project Site: LINCOLN PARK, RIVERSIDE, CA

☑ Chilled
☑ Intact
☐ Seal

Turn Around Time Requested
☐ Rush 8 12 24 48 Hours
☐ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	6010B Lead					HOLD	Remarks
17	B-21@0.5'	8/28/18	0850	Soil	ice	4 glass jar					C					X				(51)		B-21, B-22, B-26 @0.5'
	B-21@2.5'		0855																		X	
18	B-26@0.5'		0858								C					X						See B-21@0.5'
	B-26@2.5'		0902																		X	
19	B-33@0.5'		0913								C					X				(52)		B-33, B-35, B-39, B-40 @0.5'
20	B-33Dupe@0.5'		0914													X						
	B-33@2.5'		0922																		X	
	B-33Dupe2.5'		0921																		X	
21	B-39@0.5'		0920								C					X						See B-33@0.5'
	B-39@2.5'		0925																		X	
22	B-38@0.5'		0927								C					X						See B-20@0.5'
	B-38Dupe@0.5'		0927								C											See B-20Dupe@0.5'
	B-38@2.5'		0930																		X	
	B-38Dupe2.5'		0930																		X	
23	B-32@0.5'		0932								C					X						See B-20@0.5'

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	PLACEWORKS	8/28/18	1415	Victoria Castello	ARL	8/28	14:15
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water; GW=Ground Water; WW=Waste Water; SD=Solid Waste; SL=Sludge; SS=Soil/Sediment; AR=Air; PP=Pure Product

Preservative Code: IC=Ice; HC=HCl; HN=HNO_3; SH=NaOH; ST=$Na_2S_2O_3$; HS=H_2SO_4

* Sample Container Types: T=Tedlar Air Bag; G=Glass Container; ST= Steel Tube; B= Brass Tube; P=Plastic Bottle; V=VOA Vial; E= EnCore

ASSOCIATED LABORATORIES OF MONTROSE ENVIRONMENTAL GROUP, INC.
806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 771-9933
BILLING ADDRESS: 2 PARK PLAZA, SUITE 1120 • IRVINE, CA 92614

MONTROSE ENVIRONMENTAL

Chain of Custody Record

Lab Job No. 1808-216
Page 4 of 7

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PLACEWORKS	PROJECT NAME: Lincoln Park
SEND REPORT TO: DENISE	NUMBER: RIV-21.0
EMAIL: DCLENDENING@PLACEWORKS.com	ADDRESS: 1374 Park
ADDRESS: 2850 INLAND EMPIRE BLVD / ONTARIO, CA 91764	Riverside, CA
	P.O. #:
PHONE: 909 989 4449 FAX:	SAMPLED BY: M. Watson

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: ______ 48 Hours: ______ 24 Hours: ______

C = composite
X = discrete

		Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	ANALYSIS REQUEST: 6010B Lead	6010B/7471A CAM 17 metals	8081A OCPs							Hold	Test Instructions & Comments
24	1	B-32 DUP @ 0.5'	8/28/18	0933	Soil	1 glass jar	ice	X		C								see B-20 DUP @ 0.5'
	2	B-32 @ 2.5'	↓	0944	↓	↓	↓										X	
	3	B-32 DUP @ 2.5'		0945													X	
25	4	B-25 @ 0.5'		0938					X	C								see B-20 @ 0.5'
	5	B-25 DUP @ 0.5'		0938						C								see B-20 DUP @ 0.5'
	6	B-25 @ 2.5'		0944													X	
	7	B-25 DUP @ 2.5'		0944													X	
26	8	B-20 @ 0.5'		0948				X		C					(53)			B-20, B-25, B-32, B-38 @ 0.5'
	9	B-20 DUP @ 0.5'		0948						C					(54)		X	B-20, B-25, B-32, B-38 DUP DUP DUP DUP @ 0.5'
	10	B-20 @ 2.5'		0951													X	
	11	B-20 DUP @ 2.5'		0951													X	
27	12	B-15 @ 0.5'		0955				X										
	13	B-15 @ 2.5'		1006													X	
28	14	B-12 @ 0.5'		1000				X										
	15	B-12 @ 2.5'	↓	1007	↓	↓	↓										X	

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Signature: [signature]	Signature: Victoria Castillo	Signature:	Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name: Victoria Castillo	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 8/28/18 Time: 1415	Date: 8/28/18 Time: 14:15	Date: Time:	Date: Time:	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES OF MONTROSE ENVIRONMENTAL GROUP, INC.
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 771-9933
BILLING ADDRESS: 2 PARK PLAZA, SUITE 1120 ▪ IRVINE, CA 92614

MONTROSE ENVIRONMENTAL

Chain of Custody Record

Lab Job No. 1808-216
Page 5 of 7

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: ____ 48 Hours: ____ 24 Hours: ____

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PLACEWORKS	PROJECT NAME: LINCOLN PARK
SEND REPORT TO: DENISE	NUMBER: RIV-21.0
EMAIL: DCLENDENING@PLACEWORKS.COM	ADDRESS: 13th/Park Riverside, CA
ADDRESS: 2850 INLAND EMPIRE BL ONTARIO CA 91764	P.O. #:
PHONE: 909 989 4449 FAX:	SAMPLED BY: M. Watson

ANALYSIS REQUEST: 6010B Lead; 6010B/7471A (CAM 17); 8081A OCP; HOLD

Lab #		Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	6010B Lead	6010B/7471A (CAM 17)	8081A OCP	HOLD	Test Instructions & Comments
29	1	B-3@0.5	8/28/18	1016	Soil	1 glass jar	ice	X				
	2	B-3@2.5		1027							X	
30	3	B-8@0.5'		1012				X				
	4	B-8@2.5'		1015							X	
31	5	B-2@0.5'		1019				X				
	6	B-2@2.5'		1022							X	
32	7	B-7@0.5'		1025					X	X		
33	8	B-7@2.5'		1029					X	X		
34	9	B-6@0.5'		1042				X				
	10	B-6@2.5'		1047							X	
35	11	B-11@0.5'		1055				X				
	12	B-11@2.5'		1101							X	
36	13	B-1@0.5'		1103				X				
	14	B-1@2.5'		1106							X	
37	15	B-18@0.5'		1112				X				

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Signature: [signature]	Signature: Victoria Castillo	Signature:	Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name: Victoria Castillo	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 8/28/18 Time: 1415	Date: 8/28/18 Time: 14:15	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ASSOCIATED LABORATORIES OF MONTROSE ENVIRONMENTAL GROUP, INC.
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 771-9933
BILLING ADDRESS: 2 PARK PLAZA, SUITE 1120 ▪ IRVINE, CA 92614

MONTROSE ENVIRONMENTAL

Chain of Custody Record

Lab Job No. 1808-210
Page 6 of 7

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PLACEWORKS	PROJECT NAME: Lincoln Park, Riverside, CA *
SEND REPORT TO: DENISE	NUMBER: RIV-21-0
EMAIL: DLEMENAGE@PLACEWORKS.COM	ADDRESS: 13th / Park Riverside, CA
ADDRESS: 2850 INLAND EMPIRE #B ONTARIO CA 91764	P.O. #:
PHONE: 909 989 4449 FAX:	SAMPLED BY: M. Watson

	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	ANALYSIS REQUEST: 6010B Lead	8081A OCPs	6010B/7471A CAM17 Metals	Hold	Test Instructions & Comments
1	B-1@2.5'	8/28/18	1130	Soil	1 glass, jar	ice				X	
38 2	B-2@0.5'		1110				X				
3	B-2@2.5'		1113							X	
39 4	B-3@0.5'		1117				X	X			
40 5	B-3 DUP@0.5'		1117				X	X			
41 6	B-3@2.5'		1119				X	X			
7	B-3 DUP@2.5'		1119							X	
42 8	B-3@0.5'		1123				X				
9	B-3@2.5'		1125							X	
43 10	B-3@0.5'		1134				X				
11	B-3@2.5'		1136							X	
44 12	B-3@0.5'		1140				X				
13	B-3@2.5'		1143							X	
45 14	B-4@0.5'		1140				X				
15	B-4@2.5'	↓	1146	↓	↓	↓				X	

Total No. of Samples: Method of Shipment: Preservative: 1= Ice 2 =HCl 3 =HNO_3 4 =H_2SO_4 5 =NaOH 6 =Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Signature:	Signature: Victoria Castello	Signature:	Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name: Victoria Castillo	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 8/28/18 Time: 1415	Date: 8/28/18 Time: 14:15	Date: Time:	Date: Time:	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

eurofins | Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 1808-216

DATE: 8/28/18
PAGE: 1 OF 1

LABORATORY CLIENT: PLACEWORKS
ADDRESS: 2850 INLAND EMPIRE BL SUITE B
CITY: ONTARIO STATE: CA ZIP: 91764
TEL: 909 989 4449 E-MAIL: dclendening@placeworks.com

CLIENT PROJECT NAME / NO.: Lincoln Park, Riverside, CA
P.O. NO.: RIV-21.0
PROJECT CONTACT: Denise Clendening
LAB CONTACT OR QUOTE NO.:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) Mike Watson

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

	LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH _____	BTEX / MTBE ☐ 8260 ☐ _____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Gold Lead	Hold		
46		B-19@0.5'	8/28/18	1146	Soil	1	X															X		X			
47		B-19DUP@0.5'		1146																		X					
		B-19@2.5'		1150																					X		
		B-19DUP@2.5'		1156																					X		
48		EB082816		1212	Aqueous	2	X	X											X			X					

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Victoria Castillo	8/28/18	1415
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

ARL

Sample Acceptance Checklist

CLIENT: Placeworks WORK ORDER NUMBER: 1808-216

Temperature:(Criteria:0.0ºC-6.0ºC)

Sample Temp.(w/CF) ºC(w/CF) 4.6 °C

☐ Sample(s) outside temprature criteria: PM contacted by :

☐ Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.

☐ Sample(s) received at ambient temprature; placed on ice for transport by courier.

☐ Ambient Temprature ☐ Air ☐ Filter

CUSTODY SEAL:

Cooler ☐ Present and Intact ☐ Present and Not Intact ☑ Not Present

Sample(s) ☐ Present and Intact ☐ Present and Not Intact ☑ Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	✓		
Were sample IDs present?	✓		
Were sampling dates & times present?	✓		
Was a relingquished signature present?	✓		
Were the tests required clearly indicated?	✓		
Were all samples sealed in plastic bags?		✓	
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of samples sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: Victoria Castello Date: 8/28/18

A R Laboratories
1650 S. Grove Ave., Suite C, Ontario, CA 91761
PH: 951-779-0310 Fax: 951-779-0344
Email: office@arlaboratories.com

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	Ken Zheng, President 09/14/2018 12:06:09
Laboratory Job No. (Certificate of Analysis No.)	1809-00069
Project Name / No.	LINCOLN PARK, RIVERSIDE CA R1V-21.0
Dates Sampled (from/to)	08/28/18 To 08/28/18
Dates Received (from/to)	08/28/18 To 08/28/18
Dates Reported (from/to)	09/14/18 To 9/14/2018
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1809-00069

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B
ONTARIO, CA 91764

Project: LINCOLN PARK, RIVERSIDE CA

Date Reported	09/14/18
Date Received	08/28/18
Invoice No.	83474
Cust #	P135
Permit Number	
Customer P.O.	R1V-21.0

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 **B-10@2.5'**					Date & Time Sampled:		08/28/18 @ 8:15	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		09/12/18	TLB
Lead	**4.37**		mg/Kg	EPA 6010B	1.0	0.500	09/12/18	TLB
Sample: 002 **B-12@2.5'**					Date & Time Sampled:		08/28/18 @ 10:07	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		09/12/18	TLB
Lead	**3.89**		mg/Kg	EPA 6010B	1.0	0.500	09/12/18	TLB
Sample: 003 **B-6@2.5'**					Date & Time Sampled:		08/28/18 @ 10:47	
Sample Matrix: **Soil**								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		09/12/18	TLB
Lead	**4.97**		mg/Kg	EPA 6010B	1.0	0.500	09/12/18	TLB

Respectfully Submitted: Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

A & R Laboratories, Inc.

1650 S. GROVE AVE., SUITE C
ONTARIO, CA 91761
951-779-0310 FAX 951-779-0344
www.arlaboratories.com office@arlaboratories.com

FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

QUALITY CONTROL DATA REPORT

1809-00069

PLACEWORKS
ONTARIO, CA 91764

Date Reported	**09/14/2018**
Date Received	**08/28/2018**
Date Sampled	**08/28/2018**
Invoice No.	**83474**
Customer #	**P135**
Customer P.O.	**R1V-21.0**

Project: LINCOLN PARK, RIVERSIDE CA

Method # EPA 6010B
QC Reference # 76145 **Date Analyzed:** 9/12/2018 **Technician:** TLB
Samples 001 002 003

Results	LCS %REC	LCS %DUP	LCS %RPD	Control Ranges LCS %REC	LCS %RPD
Arsenic	100	101	0.6	75 - 125	0 - 20
Cadmium	102	103	0.7	75 - 125	0 - 20
Chromium	101	101	7	75 - 125	0 - 20
Copper	104	104	0.0	75 - 125	0 - 20
Lead	102	102	0.6	75 - 125	0 - 20
Nickel	102	102	0.1	75 - 125	0 - 20
Selenium	102	103	1.1	75 - 125	0 - 20
Zinc	102	102	0.7	75 - 125	0 - 20

No method blank results were above reporting limit

Respectfully Submitted: Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1809-69 Page 1 of 7

Client Name: PLACEWORKS
E-mail: DCLENDENING@PLACEWORKS.COM
Address: 625 INLAND EMPIRE BLVD #800 ONTARIO CA 91764
Report Attention: Drew Phone #: 909 989 4449 Fax: Sampled By: M. Watson
Project No./ Name: RIV-21.0 Project Site: Lincoln Park, Riverside, CA

☒ Chilled ☒ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☒ Normal

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Cobalt, Lead	Hold	Remarks (C=composite, G=grab)
	B-29@0.5'	8/28/18	7:18	soil	ice	1 glass jar												See B-27@0.5'
	B-29@2.5'	8/28/18	7:21														X	See B-27@2.5'
	B-34@0.5'		725															See B-27@0.5
	B-34@2.5'		730															See B-27@2.5
	B-28@0.5'		733															See B-27@0.5
	B-28@2.5'		739															See B-27@2.5'
	B-27@0.5'		733															B-27, B-28, B-29, B-34@0.5'
	B-27@2.5'		734															B-27, B-28, B-29, B-34@2.5'
	B-35@0.5'		0742															See B-33@0.5
	B-35@2.5'		744															
	B-40@0.5'		747															See B-33@0.5'
	B-40@2.5		750															
	B-17@0.5'		757															
	B-17@2.5'		759															
	B-22@0.5'		755															See B-21@0.5

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	PLACEWORKS	8/28/18	1415	[signature]	ARL	8/28/18	14:15
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SL=Sludge, SS=Soil/Sediment, AF=Air, PP=Pure Product

Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, IS=H2SO4

* Sample Container Types: T=Tedlar Air Bag, G=Glass, P=Plastic, B=Brass Tube, E=EnCore

ARL
A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1809-69

Client Name: PLACEWORKS
E-mail: DCLENDENING@PLACEWORKS.COM
Address: 3880 INLAND EMPIRE #B ONTARIO CA 91764
Report Attention: Denise
Phone #: 909 989 4449
Fax #:
Sampled By: M. Watson
Project No./Name: RIV-2.0
Project Site: Lincoln Park, Riverside, CA

☒ Chilled
☒ Intact
☐ Seal

Turn Around Time Requested:
☐ Rush 8 12 24 48 Hours
☒ Normal

Remarks: C=composite, X=discrete

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	6010B Lead					Hold
	B-22@2.5'	8/28/18	0805	Soil	ice	1 glass jar															X
-	B-14@0.5'	↓	0811	↓	↓	↓															
	B-14@2.5'		0813																		X
①	B-10@0.5'		0808																		
	B-10@2.5'		0815													⊗					
	B-5@0.5'		0818																		
	B-5@2.5'		0822																		X
-	B-4@0.5'		0824																		
	B-4@2.5'		0839																		X
-	B-13@0.5'		0826																		
	B-13@2.5'		0836																		X
	B-9@0.5'		0839																		
-	B-9@2.5'		0843																		
	B-16@0.5'		0849																		
	B-16@2.5'	↓	0859	↓	↓	↓															X

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	PLACEWORKS	8/28/18	1415	Victoria Castello	AR	8/28	14:15
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made

Matrix Code: DW=Drinking Water, GW=Ground Water ... SL=Sludge, PS=Soil/Sediment ...
Preservative Code: IC=Ice, HC=HCl ... SH=NaOH, ST=Na2S2O3 ...
* Sample Container Types: T=Tedlar Air Bag, G=Glass Container ... B=Brass Tube ... E=EnCore

ARL

A & R Laboratories
1650 S. Grove Ave., Ste C, Ontario, CA 91761
Tel: 951-779-0310 / 909-781-6335 Fax: 951-779-0344
E-mail: office@arlaboratories.com

CHAIN OF CUSTODY

A & R Work Order #: 1809-69

Client Name: PLACEWORKS
E-mail: DCLEMENS@PLACEWORKS.COM
Address: 250 INLAND EMPIRE BLVD ONTARIO CA 91764
Report Attention: Denise
Phone #: 909 989 4449
Fax: #
Sampled By: M Watson
Project No./ Name: RIV-210
Project Site: LINCOLN PARK, RIVERSIDE, CA

☑ Chilled ☑ Intact ☐ Seal

Turn Around Time Requested: ☐ Rush 8 12 24 48 Hours ☐ Normal

Analyses Requested

Lab # (Lab use)	Client Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Gold & Lead	HOLD	Remarks
	B-21 @0.5'	8/28/19	0950	Soil	ice	2 glass jars												Composite X-dispose B-21, B-22, B-26 @0.5'
	B-21 @2.5'		0955														X	
	B-26 @0.5'		0858															See B-21 @0.5'
	B-26 @2.5'		0902														X	
	B-33 @0.5'		0913															B-33, B-35, B-39, B-42 @0.5'
	B-33 Dup @0.5'		0914															
	B-33 @2.5'		0922														X	
	B-33 Dup @2.5'		0921														X	
	B-39 @0.5'		0920															See B-33 @0.5'
	B-39 @2.5'		0925														X	
	B-38 @0.5'		0927															See B-20 @0.5'
	B-38 Dup @0.5'		0927															See B-20 Dup @0.5'
	B-38 @2.5'		0930														X	
	B-38 Dup @2.5'		0930														X	
	B-32 @0.5'	↓	0932	↓	↓	↓												See B-20 @0.5'

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	PLACEWORKS	8/28/19	1415	Victoria Castillo	LK	8/28	14:15
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Paint Chip

Preservative Code: IC=Ice, H=HCl, N=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4

* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B=Brass Tube, P=Plastic Bottle, V=VOA Vial, E=EnCore

ASSOCIATED LABORATORIES OF MONTROSE ENVIRONMENTAL GROUP, INC.
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 771-9933
BILLING ADDRESS: 2 PARK PLAZA, SUITE 1120 ▪ IRVINE, CA 92614

MONTROSE ENVIRONMENTAL

Chain of Custody Record

Lab Job No. 1809-69
Page 4 of 7

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY	PLACEWORKS	PROJECT NAME:	Lincoln Park
SEND REPORT TO:	J ENISE	NUMBER:	RIV-21.0
EMAIL:	JCENDEWINE@PLACEWORKS.COM	ADDRESS:	1324 Park
ADDRESS:	2850 INLAND EMPIRE BLVD		Riverside, CA
	ONTARIO CA 91764	P.O. #:	
PHONE:	909 989 4949 FAX:	SAMPLED BY:	M. Watson

C = composite
X = discrete

	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	ANALYSIS REQUEST 6010B Lead (CAM17) 8081A OCPs	Hold	Test Instructions & Comments
1	B-32 DUP @ 0.5'	8/28/18	0933	Soil	1 glass jar	ice			See B-20 DUP @ 0.5'
2	B-32 @ 2.5'		0944					X	
3	B-32 DUP @ 2.5'		0945					X	
4	B-25 @ 0.5'		0938						See B-20 @ 0.5'
5	B-25 DUP @ 0.5'		0938						See B-20 DUP @ 0.5'
6	B-25 @ 2.5'		0944					X	
7	B-25 DUP @ 2.5'		0944					X	
8	B-20 @ 0.5'		0949						B-20, B-25, B-32, B-38 @ 0.5'
9	B-20 DUP @ 0.5'		0949					X	B-20, B-25 DUP, B-32 DUP, B-38 DUP @ 0.5'
10	B-20 @ 2.5'		0951					X	
11	B-20 DUP @ 2.5'		0951					X	
12	B-15 @ 0.5'		0955						
13	B-15 @ 2.5'		1006					X	
14	B-12 @ 0.5'		1000						
15	B-12 @ 2.5'	↓	1007	↓	↓	↓	⊗		

(2)

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Signature:	Signature: Victoria Castello	Signature:	Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name: Victoria Castillo	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 8/28/18 Time: 1415	Date: 8/28/18 Time: 14.15	Date: Time:	Date: Time:	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

ASSOCIATED LABORATORIES OF MONTROSE ENVIRONMENTAL GROUP, INC.
806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 771-9933
BILLING ADDRESS: 2 PARK PLAZA, SUITE 1120 • IRVINE, CA 92614

MONTROSE ENVIRONMENTAL

Chain of Custody Record

Lab Job No. 1809-69
Page 5 of 7

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PLACEWORKS	PROJECT NAME: LINCOLN PARK
SEND REPORT TO: DENISE	NUMBER: RIV-21.0
EMAIL: DCLENDENING@PLACEWORKS.com	ADDRESS: 13th/Park
ADDRESS: 2850 INLAND EMPIRE BL ONTARIO CA 91764	Riverside CA
	P.O. #:
PHONE: 9099894449 FAX:	SAMPLED BY: M. Watson

REQUIRED TURN AROUND TIME: Standard: X 72 Hours: 48 Hours: 24 Hours:

ANALYSIS REQUEST: 6010B Lead; 6010B/7471A CAM 17; 8081A OC Pesticides; Hold

#	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	6010B Lead	6010B/7471A CAM 17	8081A OC Pest.							Hold	Test Instructions & Comments
1	B-3@0.5	8/28/18	1016	Soil	1 glass jar	ice											
2	B-3@2.5	↓	1027	↓	↓	↓										X	
3	B-8@0.5'		1012														
4	B-8@2.5'		1015													X	
5	B-2@0.5'		1019														
6	B-2@2.5'		1022													X	
7	B-7@0.5'		1025														
8	B-7@2.5'		1029														
9	B-6@0.5'		1042														
10	B-6@2.5'		1047				⊗										
11	B-11@0.5'		1055														
12	B-11@2.5'		1101													X	
13	B-1@0.5'		1103														
14	B-1@2.5'		1106													X	
15	B-18@0.5'		1112														

(3)

Total No. of Samples: Method of Shipment: Preservative: 1= Ice 2 =HCl 3 =HNO_3 4 =H_2SO_4 5 =NaOH 6 =Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Signature: [signature]	Signature: Victoria Castillo	Signature:	Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name: Victoria Castillo	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 8/28/18 Time: 1415	Date: 8/28/18 Time: 14:15	Date: Time:	Date: Time:	Date: Time:	Date: Time:

ASSOCIATED LABORATORIES OF MONTROSE ENVIRONMENTAL GROUP, INC.
806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 771-9933
BILLING ADDRESS: 2 PARK PLAZA, SUITE 1120 • IRVINE, CA 92614

MONTROSE ENVIRONMENTAL

Chain of Custody Record

Lab Job No. 1809-69
Page 6 of 7

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: PLACEWORKS	PROJECT NAME: Lincoln Park, Riverside, CA
SEND REPORT TO: DENISE	NUMBER: RIV-21.0
EMAIL: DCLEMENTE@PLACEWORKS.COM	ADDRESS: 13th / Park
ADDRESS: 2850 INLAND EMPIRE #B	Riverside, CA
ONTARIO CA 91764	P.O. #:
PHONE: 909 989 4449 FAX:	SAMPLED BY: M. Watson

REQUIRED TURN AROUND TIME: Standard: X
72 Hours: ______ 48 Hours: ______ 24 Hours: ______

ANALYSIS REQUEST

	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	6010B Lead	8081A OCPs	6010B/7471A CAM 17 Metals							HOLD	Test Instructions & Comments
1	B-18@2.5'	8/28/18	1130	Soil	1 glass jar	ice										X	
2	B-23@0.5'		1110														
3	B-23@2.5'		1113													X	
4	B-30@0.5'		1117														
5	B-30Dup@0.5'		1117														
6	B-30@2.5'		1119														
7	B-30Dup@2.5'		1119													X	
8	B-36@0.5'		1123														
9	B-36@2.5'		1125													X	
10	B-37@0.5'		1134														
11	B-37@2.5'		1136													X	
12	B-31@0.5'		1140														
13	B-31@2.5'		1143													X	
14	B-24@0.5'		1140														
15	B-24@2.5'	↓	1146	↓	↓	↓										X	

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished by 1.	Received By: 1.	Relinquished by 2.	Received By: 2.	Relinquished by 3.	Received By: 3.
Signature: [signature]	Signature: Victoria Castillo	Signature:	Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name: Victoria Castillo	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date: 8/28/18 Time: 1415	Date: 8/28/18 Time: 14:15	Date: Time:	Date: Time:	Date: Time:	Date: Time:

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

eurofins

Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494

For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

WO NO. / LAB USE ONLY: 1809-69

DATE: 8/28/18

PAGE: 1 OF 1

LABORATORY CLIENT: PLACEWORKS	CLIENT PROJECT NAME / NO.: Lincoln Park, Riverside, CA / P.O. NO.: RIV-21.0
ADDRESS: 2850 INLAND EMPIRE BL. SUITE B	PROJECT CONTACT: Denise Clendening / LAB CONTACT OR QUOTE NO.:
CITY: ONTARIO STATE: CA ZIP: 91764	GLOBAL ID: / LOG CODE: / SAMPLER(S): (PRINT): Mike Watson
TEL: 909 989 4949 E-MAIL: dclendening@placeworks.com	

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD:

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ____	BTEX / MTBE ☐ 8260 ☐ ____	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☒ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Co/Ni/Pb Lead	Hold
	B-19@0.5'	8/28/18	1146	Soil	1																			
	B-19DUP@0.5'		1146																					
	B-19@2.5'		1150																				X	
	B-19DUP@2.5'		1156	↓	↓	↓																		
	EB082816	↓	1212	Aqueous	2																			

Relinquished by: (Signature)	Received by: (Signature/Affiliation) Victoria Castillo	Date: 8/28/18	Time: 1415
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

2014-07-01 Revision

Appendix B. LeadSpread Results

Appendix

This page intentionally left blank.

LEAD RISK ASSESSMENT SPREADSHEET 8
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Click here for ABBREVIATED INSTRUCTIONS FOR LEADSPREAD 8

INPUT	
MEDIUM	LEVEL
Lead in Soil/Dust (ug/g)	64.4
Respirable Dust (ug/m^3)	1.5

OUTPUT					
Percentile Estimate of Blood Pb (ug/dl)					
	50th	90th	95th	98th	99th
BLOOD Pb, CHILD	0.5	0.8	1.0	1.2	1.4
BLOOD Pb, PICA CHILD	0.9	1.7	2.0	2.4	2.7

EXPOSURE PARAMETERS		
	units	children
Days per week	days/wk	7
Geometric Standard Deviation		1.6
Blood lead level of concern (ug/dl)		1
Skin area, residential	cm^2	2900
Soil adherence	ug/cm^2	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001
Soil ingestion	mg/day	100
Soil ingestion, pica	mg/day	200
Ingestion constant	(ug/dl)/(ug/day)	0.16
Bioavailability	unitless	0.44
Breathing rate	m^3/day	6.8
Inhalation constant	(ug/dl)/(ug/day)	0.192

PATHWAYS						
CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	5.8E-5	0.00	1%		0.00	0%
Soil Ingestion	7.0E-3	0.45	99%	1.4E-2	0.91	100%
Inhalation	2.0E-6	0.00	0%		0.00	0%

Click here for REFERENCES

Appendix E. Qualifications

Appendix

This page intentionally left blank.

DENISE CLENDENING, PhD

Associate Principal, Site Assessment Services

Denise has over 27 years of experience providing technical oversight and performing human health risk assessments, site assessments, and investigations of chemical waste at multiple sites including Resource Conservation & Recovery Act (RCRA) and Superfund sites. She is adept at applying alternatives that are economical yet protective of human health and the environment. She conducts realistic assessments and calculates target cleanup levels based on site-specific exposure scenarios. Her work has involved pesticides, heavy metals, solvents, and petroleum-contaminated soils. She assists multiple school districts in California with site assessment, public relations, and the Department of Toxic Substance Control (DTSC) school site approval process. She participates in public hearings and school board meetings and coordinates her projects with the CEQA process.

Before joining PlaceWorks, Denise managed large divestiture environmental due diligence projects for the electric power industry and was involved in numerous environmental projects for oil field operation. Her experience also includes the development and testing of risk assessment software and teaching training courses in risk assessment using different software programs.

Denise has established a very good reputation with regulatory agencies and negotiates risk-related issues on behalf of her clients. She is a member of the Los Angeles Regional Water Quality Control Board Underground Storage Tank Advisory Board and has extensive experience with site closure activities with the DTSC, Environmental Protection Agency, Regional Water Quality Control Boards, and local oversight agencies throughout California.

HIGHLIGHTS OF EXPERIENCE

ENVIRONMENTAL & HEALTH RISK ASSESSMENTS

- Xerox Corporation Preliminary Environmental Assessment and Health Risk Assessment | Santa Ana CA
- Human Health Risk Evaluation, Literature Research for American Petroleum Institute
- City of Redlands Health Risk Assessment | Redlands CA
- Caltrans Risk Assessment and Groundwater Impact Analysis | California
- Risk Assessments and Indoor Air Sampling for Confidential Client(s) | Various Locations
- Human Health & Ecological Risk Assessment – Technical Review | Various Locations
- Landfill Risk Assessments | Various Locations
- Risk Assessments for Pesticide Contaminated Soil | Various Locations
- Human Health Risk Assessment for Confidential Mineral Resources Client | Arizona
- Human Health Risk Assessment at Whites Point Nike Missile Site | Los Angeles County CA
- Human Health Risk Assessment at Fort MacArthur | Los Angeles County CA

EDUCATION

- PhD, Soil Physics, University of California, Riverside
- MS, Soil Science, University of California, Riverside
- BS, Geology, University of California, Riverside

CERTIFICATIONS

- Oil Spill Response Training

AFFILIATIONS

- Soil Science Society of America
- American Geophysical Union
- American Chemical Society
- Society of Risk Analysis
- Coalition of Adequate School Housing

Team member since 2005

PLACEWORKS

DENISE CLENDENING

Associate Principal

dclendening@placeworks.com

SITE ASSESSMENTS

- Site Remediation for Hull Middle School | Torrance CA
- PEA for New High School, William S. Hart UHSD | Castaic CA
- Phase I for Property at East Briar Drive | San Bernardino County CA
- PEA for Stella Academy Middle School | Los Angeles CA
- Phase I for Valley Boulevard Widening | City of Industry CA
- Oil Field Preliminary Environmental Assessment | Culver City CA
- Lead-Based Paint Evaluations | Various Locations
- Cogeneration Facilities Permit Applications | Various Locations throughout California
- NRG Energy Environmental Due Diligence Investigations | California
- AES Environmental Due Diligence Work Plans | California
- Remedial Investigation and Remedial Action for Jersey Avenue Elementary School Site (Congresswomen Grace Napolitano presented award for special congressional recognition for project), Little Lake City School District | City of Santa Fe Springs CA
- Preliminary Environmental Assessments for over 100 school sites throughout California
- Phase I ESA and PEAs for four school sites, Moreno Valley USD
- Phase I ESAs, PEAs, SSIs and RAWs for eight school sites, San Bernardino County Superintendent of Schools
- Phase I ESA for Elementary School No. 19, Rialto USD
- PEA and SSI for the New High School No. 3 Site, Colton Joint USD
- Phase I ESA and PEAs for four school sites, Lynwood USD
- Phase I ESA for the Proposed Elementary School No. 8, San Ysidro School District
- Phase I ESA for the Proposed K–8 Parker Dam School, Needles USD
- PEAs for three school sites and environmental and legislative support services, Santa Ana USD
- Phase I ESA, PSHA, and PEA for Community Day School, Eastside USD
- PEAs for five school sites in Clovis | Clovis CA
- PEA for redevelopment project for the City of South Gate | South Gate CA
- Phase I ESA for Arrowhead Springs Resort I | San Bernardino CA
- Phase I ESA for two Charter Schools for Green Dot Public Schools | Los Angeles CA
- Phase I and Phase II ESA for Former Service Station | Los Angeles CA
- Phase I ESAs, PEA, SSIs, and fill testing for multiple school sites, Pomona USD
- PEA and methane gas testing, Encinitas USD
- Phase I ESA and lead testing for multiple sites, Fontana USD
- Proponent's Environmental Assessment for PUC | Long Beach CA
- Initial Site Assessments for Street Widening Projects | Santa Ana CA
- Phase I ESAs for Renaissance Community Fund | Corona CA

TITLE 5/CDE RISK ASSESSMENTS

- Geohazard Assessment for Inglewood Site, Today's Fresh Start Charter School
- PEAs and Title 5 Assessments for three school sites, Redlands USD
- Title 5 Compliance Study Reports for four sites, Whittier Union High School District
- Prairie Vista Lead Testing, Hawthorne USD
- Environmental Support and Risk Assessment for school sites, San Dieguito Union High School District
- Human Health Risk Assessment School Site, Pomona USD
- Title 5 Hazard and Constraints Analysis for four school sites, Irvine USD
- Title 5 Hazard and Constraints Analysis for school site, Rialto USD

MICHAEL WATSON, PG

Project Geologist

With over a decade in the environmental consulting industry, Mike is proficient in providing field and office support to project managers performing site assessment and remediation. He performs site assessments, geohazard studies, air quality and industrial hygiene assessments, groundwater investigations, and remedial actions. Mike also manages materials acquisition, field equipment maintenance, and subcontractor coordination on large field investigations and monitoring programs.

A dedicated geologist, Mike continually strives to refine his knowledge, methods, and efficacy. He is especially committed to his current work for numerous school districts throughout California, where he assists in site assessment services and the Department of Toxic Substances Control's school site approval process. He performs Phase I ESAs, PEAs, geohazard studies, supplemental site investigations, remedial investigation reports, removal action documents, feasibility study reports, Title 5 Constraints Studies, and fill testing reports. In addition, he assists with the management and implementation of field investigations, assembles project data, and arranges methodical and comprehensive procedures to attain the client's goals.

HIGHLIGHTS OF EXPERIENCE

SITE ASSESSMENTS

» PEAs, Phase I ESAs, Geohazards Study Reports, and Title 5 Studies for various schools | Moreno Valley USD
» PEAs and Fill Testing for various schools | Clovis USD
» PEA for Proposed Castaic High School | William S. Hart Union High School District
» Phase I ESA for Proposed K–8 Parker Dam School | Needles USD
» Removal Action, Fill Testing, and Quarterly Groundwater Sampling for Central Region High School No. 13 | Los Angeles USD
» Removal Actions for Chaffey West Community Day School and Chino Early Education Center | San Bernardino County Superintendent of Schools
» Phase I ESA for Citrus Creek Residential Development | Upland CA
» Phase I ESA for the Arrowhead Springs Resort | San Bernardino CA
» Phase I/II ESAs for Former Gas Station | Los Angeles CA
» Quarterly Groundwater Sampling, Remedial Investigation and Remedial Action for Santa Fe Springs Athletic Fields | Little Lake City School District/Santa Fe Springs CA
» Environmental Services for various schools | Hayward USD

REGULATORY COMPLIANCE & STRATEGIC PLANNING

» Environmental Auditing for General Motors Railroad Locomotive Service Facility | Commerce CA
» Construction Site Review Implementation, RAW, and Methane Mitigation System Inspection for Hull Middle School | Torrance USD
» Underground Storage Tank Closure Report and Construction Response – Removal of Six Hydraulic Lifts for Central Region Elementary School No. 13 | Los Angeles USD
» Removal Action, Oil Well Reabandonment, Crude Oil Pipeline Removal, Construction Response Services, and Construction Site Review Implementation for Harry Bridges Span K–8 | Los Angeles USD

EDUCATION

» BS, Geology, University of California, Riverside

REGISTRATIONS

» California Professional Geologist No. 8177

CERTIFICATIONS

» 40-Hour Hazardous Waste Workers (HAZWOPER) Certification
» 24-Hour First Responders Certification
» 8-Hour HAZWOPER Refresher Certification
» CPR/First Aid Certification
» NITON X-ray Fluorescence (XRF) Analyzer Certification

AFFILIATIONS

» Geological Society of America
» Association of Environmental and Engineering Geologists
» Seismological Society of America
» Inland Geological Society
» South Coast Geological Society

Team member since 2005

PLACEWORKS

- Operations and Maintenance Inspection and Monitoring Reports, Five-Year Review Report, and Decommissioning of Methane Mitigation System at Woodcrest Jr. High and Liberty Elementary | Chino Valley USD
- Corrective Measures Study and Quarterly Groundwater Monitoring for Raymond A. Villa Fundamental Intermediate School | Santa Ana USD
- Soil Vapor and Groundwater Monitoring, Soil Vapor Extraction System Monitoring and AQMD compliance for Former Sargent Industries Facility | Huntington Park CA

MICHAEL WATSON
Project Geologist
mwatson@placeworks.com

CEQA/TITLE 5 ASSESSMENTS

- CollegeTown Specific Plan EIR | Fullerton CA
- Anaheim Canyon Specific Plan EIR | Anaheim CA
- Title 5 studies for various schools in Westminster and Huntington Beach | Westminster School District
- City of El Monte General Plan | El Monte CA
- City of Industry General Plan | Industry CA
- Irvine Business Center | Irvine CA

PUBLICATIONS

- Watson, M. J., and S. Jorgensen, 2001. Geologic Map of the Margarita Peak 7.5 Minute Quadrangle, San Diego County, California: A Digital Database, Version 1.0. Mapping by S. S. Tan. California Division of Mines and Geology, Preliminary Geologic Map.
- Watson, M. J. and others, 2003. Quaternary Geologic Materials Map of Part of the Juniper Hills 7.5 Minute Quadrangle, California. In Seismic Hazard Zone Report for the Juniper Hills 7.5-Minute Quadrangle, Los Angeles County, California. Mapping by A. G. Barrows, D. J. Beeby, D. B. Burke, T. W. Dibblee Jr., J. E. Kahle, and D. J. Ponti. California Geological Survey Seismic Hazard Zone Report 102.
- Watson, M.J., K.R. Bovard, R.M. Alvarez, and C.I. Gutierrez, 2007, Geologic Map of the Oceanside 30' X 60' Quadrangle, California, Mapping by M.P. Kennedy and S.S. Tan. California Geological Survey Regional Geologic Map Series, Map No. 2: Scale 1:100,000.