Appendix

Appendix E Phase II Soil Sampling

Appendix

This page intentionally left blank.



TECHNICAL MEMORANDUM

DATE January 14, 2022

TO City of Irvine

ADDRESS 6427 Oak Canyon, Building 1

Irvine, California 92618

CONTACT Reza Jafari, Senior Project Manager

FROM Denise Clendening, Ph.D.

SUBJECT Phase II Irvine Animal Care Center & Operations Support Facility Expansion/Renovation

PROJECT NUMBER COI-53.0

BACKGROUND

PlaceWorks prepared and submitted to the City of Irvine a Transaction Screen Process Report also known as a modified Phase 0 (Report) to assess the Irvine Animal Care Center and Operations Support Facility Expansion Renovation project site in March 2020. The project involves the expansion and renovation of onsite facilities for the Irvine Animal Care Center and Operations Support Facility. Project development plans include a 5,000-square-foot annex building to the existing operations support facility, a fuel tank farm area, and maintenance shop structures. The parking areas would be resurfaced and restriped, and a dog park would be converted to a staff parking lot. Project development would upgrade and renovate the current Irvine Animal Care Center building and facilities, including 13,000 square feet of minor interior renovations and 3,000 square feet of major interior renovation. The project would also include the construction of 13,000 square feet of new building space for the Irvine Animal Care Center.

The 2020 Report identified areas where soil disturbance activities were planned and where areas of potential environmental concern were located to determine where soil sampling may be needed based on the project.

Site Description

The approximately 18.7-acre project site is currently developed with and operates as the Irvine Animal Care Center and the Operations Support Facility. The Irvine Animal Care Center portion of the site (APN 466-01-135) is developed with various buildings and structures, outdoor support spaces, and a surface parking lot (Figures 1-3). The Operations Facility portion of the site (APNs 466-01-123, -133, -138, and -114) is developed with City's Public Works administrative offices, fleet buildings, operations facilities, surface parking lots, and Irvine Central Bark (a dog park). Overall, the site contains 119 employee and visitor



parking spaces and 180 fleet vehicle spaces. Other site improvements across the entire project site include driveways, walkways, block walls and fences, and landscape improvements.

The project site and its immediate vicinity are within the Oak Creek Planning Area (PA12), which is generally bounded by the I-5 freeway to the north, Sand Canyon Avenue to the east, agriculture uses and the San Diego Freeway (I-405) to the south, and Jeffrey Road to the west. The zoning designations of the project site are 6.1 (Institutional) and 5.4B (General Industrial). The General Plan land use designations are Educational Facility and Research/Industrial.

SITE HISTORY

Historically, the project site was developed for agricultural purposes (orchards and row crops) from at least 1938 to about the 1980s. The northwestern portion of the site was used as an orchard from at least and the southeastern area of the site was used for row crops during that time period. Structures first appeared on the site in the 1980s and portions of the site remained agricultural until the 1990s. The Animal Care Center and Operations Support Facility have been in operation since 1984.

The environmental site assessment report prepared by PlaceWorks in 2020 called a Transaction Screen Process Report (Phase 0) identified areas of potential environmental concern due to historic land uses including: an aboveground petroleum storage tank, an aboveground waste oil tank, three hazardous chemical storage areas, a household hazardous waste collection area, vehicle lifts, underground storage tanks, and residual pesticides due to historic agricultural usage of the site. Areas of potential environmental concern are shown in Figure 4. Not all items identified are in the areas where soil disturbance is planned.

Objectives of the Phase II Sampling

The overall objectives of this Phase II are to:

- Evaluate if there have been releases at the site from the areas identified as being a potential concern in the 2020 assessment.
- Collect samples in areas of potential concern where soil disturbance activities are planned.
- Estimate the potential threat to public health and/or the environment posed by hazardous constituents, if any, at the project site using a residential land-use scenario.

Field Sampling

Table 1 is a summary table of the sampling and analysis program, and Figure 5 shows the sample locations. Soil samples were collected from surface to 0.5 feet and 2.5 feet, and 5 feet below ground surface (bgs) using either a hand auger or truck-mounted direct push drill rig (Geoprobe™) at five locations on the site on November 5, 2021. Samples were collected near hazardous waste storage, near the aboveground storage tanks and in the vicinity of the underground storage tanks. Select soil samples were analyzed by an analytical laboratory accredited by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) for organochlorine pesticides by EPA Method 8081A, total petroleum hydrocarbons by EPA 8015M gasoline range constituents by EPA Method 8015, CAM-17 metals by EPA Method 6010B/7471, and arsenic by EPA Method 6010B.



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 with 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.

Results

Organochlorine pesticide concentrations from soil are summarized in Table 2, analyzed by EPA Method 8081A. All other analytical methods were below levels of concern, and all laboratory results are included as an attachment.

Pesticides

Five surface soil samples were analyzed for organochlorine pesticides (OCPs) collected from across the site to assess for potential residual pesticides from historic agricultural usage of the site. One OCP, 4,4'-DDE was detected In all five soil samples. Concentrations of 4,4'-DDE ranged from 0.0051 milligram per kilogram (mg/kg) to 0.033 mg/kg. The concentrations of 4,4'-DDE were compared to the Department of Toxic Substances Control (DTSC) modified screening levels (SLs) and EPA Region 9 Regional Screening Levels (RSLs) for residential exposure for 4,4'-DDE. The health-based SL is 2.0 mg/kg indicating the detected concentrations at the project site are significantly below the health-based level of concern for residential land use exposure.

CAM-17 Metals

Metals were analyzed for in three soil samples and arsenic was analyzed for discretely in an additional four soil samples. Metal concentrations were compared to typical background concentrations for the area and with DTSC SLs in metal concentrations exceeded background levels. Arsenic may be elevated at sites due to agricultural usage, was not elevated and found at concentrations ranging from nondetect to 2.6 mg/kg. The health-based screening level that the DTSC uses for southern California for residential sites is 12 mg/kg.

Total Petroleum Hydrocarbons

The four soil samples that were analyzed for TPH as gasoline and one sample analyzed TPH carbon chain C4-C40 in the vicinity of the underground storage tanks were all below laboratory detection limits.

Conclusion

Based on the focused field sampling and analysis at the project site where soil disturbance is planned in areas most likely to have been impacted by land uses, the analytical results show that there have been no releases at the site of concern. All concentrations are below health-based screening levels based on a conservative health protective exposure scenario of residential land use. One pesticide, 4,4'-DDE was detected at very low concentrations in some of the surface soil samples tested.



Based on our understanding of the site PlaceWorks concludes that further assessment of the site is not necessary. The site has found to be not significantly impacted and risks to human health and the environment are found to be within acceptable levels based on the conservative screening-level risk screening.

If you have any questions please do not hesitate to contact the undersigned.

Sincerely,

PLACEWORKS

Denise Clendening, Ph.D.

Associate Principal

Michael Watson, PG 8177

Senior Geologist

Enclosures

Attachments:

Figure 1 - Regional Location

Figure 2 – Local Vicinity

Figure 3 – Aerial Photograph

Figure 4 – Areas of Potential Environmental Concern

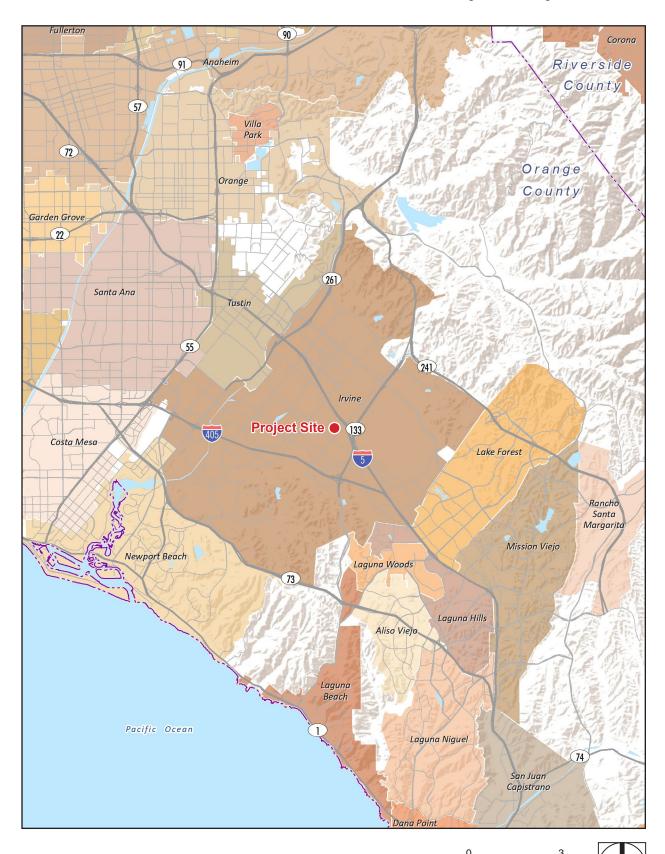
Figure 5 - Sampling Locations

Table 1 – Sampling Table

Table 2 – Pesticide Results

Laboratory Data

Figure 1 - Regional Location



PlaceWorks

Scale (Miles)

Note: Unincorporated county areas are shown in white.

Source: ESRI, 2020

Figure 2 - Local Vicinity

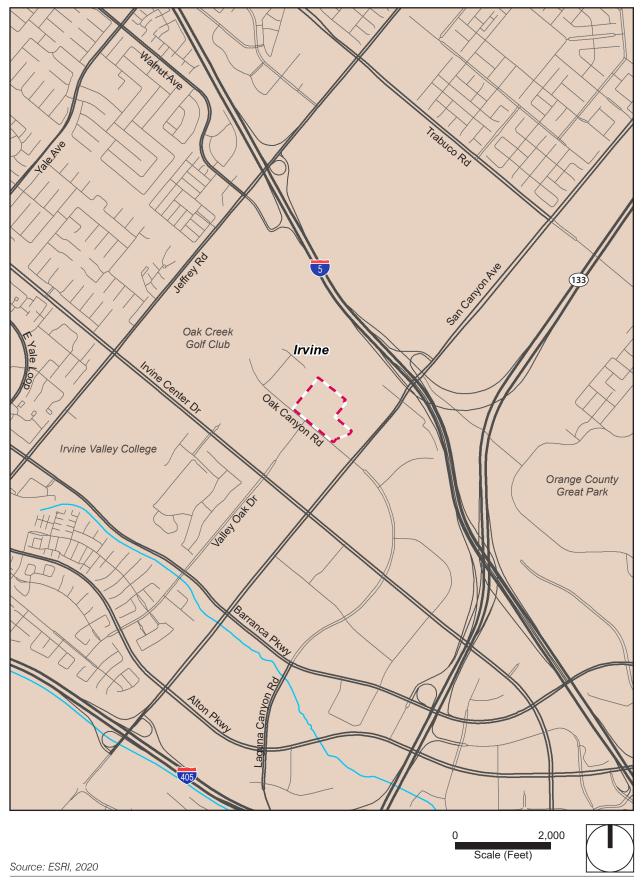
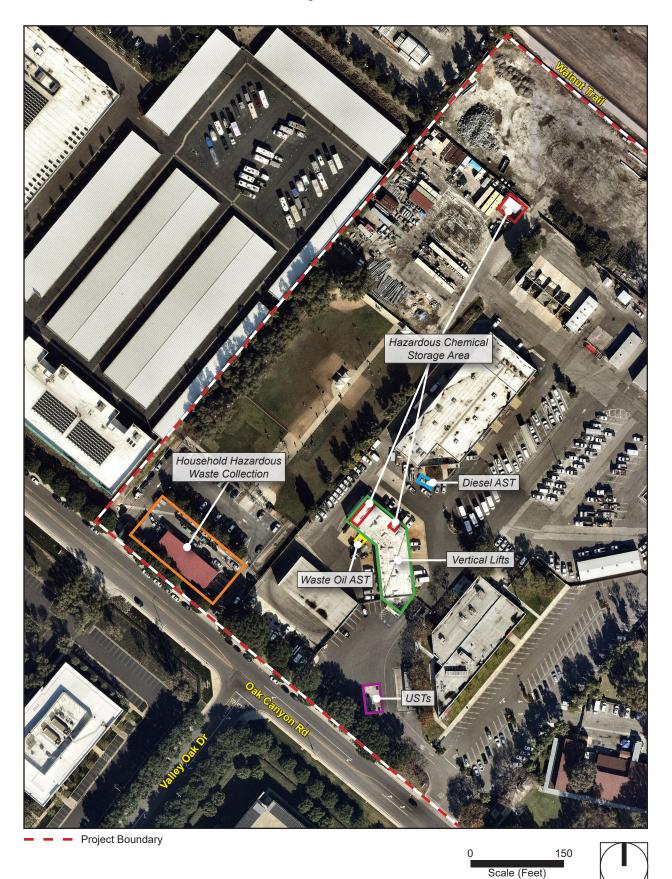


Figure 3 - Aerial Photograph



Figure 4 - Areas of Potential Environmental Concern



PlaceWorks

Source: Nearmap, 2020

Figure 5 - Sample Locations



TABLE 1
SAMPLING AND ANALYSIS PROGRAM
Irvine Animal Care Center & Operations Suppot Facility
City of Irvine
Irvine, California

Sample Number	Depth (feet bgs)	Rationale	EPA 8081A OCPs	LUFT 8015 gasoline	EPA 8015M TPH	EPA 6010B/74 71A CAM- 17 Metals	EPA 6010B Arsenic
Soil							
	0.5'	Agriculture and	D				D
B-1	2.5'	_					
	5.0'	storage					
	0.5'	A ariquitura and	D				D
B-2	2.5'	Agriculture and					
	5.0'	storage					
	0.5'	Agriculture and	D				D
B-3	2.5'	_					
	5.0'	storage					
	0.5'	Agriculture and	D				D
B-4	2.5'	_		D		D	
	5.0'	tanks		D			
	0.5'	Agriculture and	D			D	
B-5	2.5'	tanks		D		D	
D = diamete comm	5.0'	iailks		D			

D = discrete sample

TABLE 2
SUMMARY TABLE OF ORGANOCHLORINE PESTICIDES IN SOIL
Irvine Animal Care Center & Operations Suppot Facility
City of Irvine
Irvine, California

Sample Number	Depth (feet bgs)	Sample Date	4,4´-DDE
B-1	0.5'	11/9/2021	0.0078
B-2	0.5'	11/9/2021	0.015
B-3	0.5'	11/9/2021	0.0062
B-4	0.5'	11/9/2021	0.033
B-5	0.5'	11/9/2021	0.0051
Maximum Concent	ration Detecte	ed	0.033
EPA Region 9 RSL	s/ DTSC SLs		2

Concentration in milligrams per kilogram (mg/kg)

SL = screening level



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com office@arlaboratories.com

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 3 heng Ken Zheng, President 11/18/2021 9:49:55
Laboratory Job No. (Certificate of Analysis No.)	2111-00079
Project Name / No.	IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT FACILITY COI-53
Dates Sampled (from/to)	11/09/21 To 11/09/21
Dates Received (from/to)	11/09/21 To 11/09/21
Dates Reported (from/to)	11/18/21 To 11/18/2021
Chains of Custody Received	Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results	Positive Results (Organic Compounds)												
Sample	Analyte	Result Qu	al Units	RL	Sample	Analyte	Result	Qual Units	RL				
B-4@0.5'	4,4'-DDE	0.033	mg/Kg	0.0050	B-5@0.5'	4,4'-DDE	0.0051	mg/Kg	0.0050				
B-3@0.5'	4,4'-DDE	0.0062	mg/Kg	0.0050	B-2@0.5'	4,4'-DDE	0.015	mg/Kg	0.0050				
B-1@0.5'	4,4'-DDE	0.0078	mg/Kg	0.0050									



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS2111-00079

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

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number

Date & Time Sampled:

11/09/21 @ 7:20

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Customer P.O. COI-53

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 B-4@0.5' Sample Matrix: Soil					Date & Time San	npled:	11/09/21 @	7:18
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/11/21	TLB
Arsenic	<1.0		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		11/10/21	DV
Aldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
alpha-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
beta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
delta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
gamma-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
4,4'-DDD	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDE	0.033		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDT	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Dieldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan I	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan II	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan Sulfate	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin Aldehyde	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin ketone	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor Epoxide	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	11/10/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	140		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Decachlorobiphenyl	100		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
							_	

Sample: 002 **B-4@2.5'**Sample Matrix: **Soil**

[TPH Gasoline (C4-C12)]



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS2111-00079

Units

mg/Kg

Method

EPA 5035

LUFT GC/MS

EPA 3050B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

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

002 **B-4@2.5**'

Soil

Analysis

.....continued
Closed System P&T TPHg Soil

[Metals Title 22 no Hg]

Metals Acid Digestion

Sample: 0 Sample Matrix:

C4-C12

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cobalt

Copper

Molybdenum

Lead

Nickel

Silver

7inc

Selenium

Thallium

Vanadium

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number Customer P.O.

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Result

Complete

Complete

130

< 0.50

<1.0

<1.0

<0.50

< 0.50

16

4.7

7.8

2.1

0.68

7.8

<1.0

<1.0

<1.0

67

39

Qual

DF RLDate Tech Date & Time Sampled: 11/09/21 @ 7:20 1.0 11/12/21 JEN 0.50 1.0 11/12/21 JEN TLB 1.0 11/11/21 1.0 1.0 11/11/21 TI B 1.0 1.0 11/11/21 TLB 11/11/21 1.0 0.50 TLB 1.0 0.50 11/11/21 TI B 11/11/21 1.0 0.50 TLB 1.0 0.50 11/11/21 TLB 1.0 0.50 11/11/21 TLB 1.0 0.50 11/11/21 TLB 1.0 0.50 11/11/21 TLB 0.50 11/11/21 TLB 0.50 1.0 11/11/21 TI B 1.0 1.0 11/11/21 TLB 1.0 1.0 11/11/21 TLB 1.0 1.0 11/11/21 TLB 1.0 0.50 11/11/21 TLB 1.0 5.0 11/11/21 TI B

COI-53



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS2111-00079

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number

ONTARIO, CA 91764

Customer P.O. COI-53

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 B-5@0.5' Sample Matrix: Soil					Date & Time San	npled:	11/09/21 @	7:34
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/11/21	TLB
Antimony	<1.0		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Arsenic	1.3		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Barium	150		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Beryllium	0.55		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Cadmium	<0.50		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Chromium	19		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Cobalt	5.8		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Copper	9.4		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Lead	3.9		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Molybdenum	0.72		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Nickel	9.5		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Selenium	<1.0		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Silver	<1.0		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Thallium	<1.0		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Vanadium	77		mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB
Zinc	45		mg/Kg	EPA 6010B	1.0	5.0	11/11/21	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		11/12/21	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	11/12/21	KZ
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		11/10/21	DV
Aldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
alpha-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
beta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
delta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
gamma-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Chlordane	< 0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
4,4'-DDD	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDE	0.0051		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDT	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS2111-00079

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number

ONTARIO, CA 91764

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Customer P.O. COI-53

Sample: 004 B-5@0.5'							
				Date & Time Sar	npled:	11/09/21 @	7:34
Sample Matrix: Soil							
continued Dieldrin	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan I	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan II	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan Sulfate	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin Aldehyde	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin ketone	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor Epoxide	<0.0050	mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Methoxychlor	<0.010	mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
Toxaphene	<0.050	mg/Kg	EPA 8081A	1.0	0.050	11/10/21	JEN
[Surrogates]	101000	9/9	2171 000271			,,	
Tetrachloro-m-xylene	140	%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Decachlorobiphenyl	100	%REC	EPA 8081A/8082		50-150	11/10/21	JEN
,			,			, -,	
Sample: 005 B-5@2.5' Sample Matrix: Soil				Date & Time Sar	npled:	11/09/21 @	7:36
[TPH Gasoline (C4-C12)]							
Closed System P&T TPHg Soil	Complete		EPA 5035	1.0		11/12/21	JEN
C4-C12	<0.50	mg/Kg	LUFT GC/MS	1.0	0.50	11/12/21	JEN
[Extractable Hydrocarbons]							
Extraction	Complete		EPA 3550B	1.0		11/10/21	JEN
C13-C22	<10	mg/Kg	EPA 8015M	1.0	10	11/10/21	JEN
C23-C40	<20	mg/Kg	EPA 8015M	1.0	20	11/10/21	JEN
[Surrogate]							
o-Terphenyl (OTP)	66	%REC	EPA 8015M		50-150	11/10/21	JEN
[Metals Title 22 no Hg]							
Metals Acid Digestion	Complete		EPA 3050B	1.0		11/11/21	TLB
Antimony	<1.0	mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Arsenic	<1.0	mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
Barium	140	mg/Kg	EPA 6010B	1.0	0.50	11/11/21	TLB



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS2111-00079

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

alpha-BHC

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

COI-53

Permit Number Customer P.O.

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Analysis Result Qual Units Method DF RLDate Tech Date & Time Sampled: 11/09/21 @ 7:36 005 **B-5@2.5**' Sample: Sample Matrix: Soilcontinued Beryllium 0.62 mg/Kg EPA 6010B 1.0 0.50 11/11/21 TLB < 0.50 EPA 6010B 1.0 0.50 11/11/21 TLB Cadmium mg/Kg 0.50 11/11/21 Chromium 19 mg/Kg EPA 6010B 1.0 TLB EPA 6010B 0.50 TLB Cohalt 1.0 11/11/21 5.6 mg/Kg 9.6 EPA 6010B 1.0 0.50 11/11/21 TLB Copper mg/Kg 2.7 EPA 6010B 1.0 0.50 11/11/21 TLB Lead mg/Kg EPA 6010B 11/11/21 Molybdenum 0.65 mg/Kg 1.0 0.50 TLB Nickel 9.8 mg/Kg EPA 6010B 1.0 0.50 11/11/21 TI B EPA 6010B 11/11/21 Selenium <1.0 mg/Kg 1.0 1.0 TLB Silver <1.0 mg/Kg **EPA 6010B** 1.0 1.0 11/11/21 TLB Thallium <1.0 EPA 6010B 1.0 1.0 11/11/21 TLB mg/Kg Vanadium 88 mg/Kg EPA 6010B 1.0 0.50 11/11/21 TLB Zinc 48 EPA 6010B 1.0 5.0 11/11/21 TLB mg/Kg [Mercury] EPA 7471A Mercury Digestion Complete 1.0 11/12/21 ΚZ Mercury <0.20 EPA 7471A 1.0 0.20 11/12/21 ΚZ mg/Kg Date & Time Sampled: 11/09/21 @ Sample: 006 B-5@5.0' 7:38 Sample Matrix: [TPH Gasoline (C4-C12)] Closed System P&T TPHg Soil 1.0 11/12/21 JEN EPA 5035 Complete C4-C12 < 0.50 mg/Kg LUFT GC/MS 1.0 0.50 11/12/21 JEN 11/09/21 @ Date & Time Sampled: 7:50 Sample: 007 B-3@0.5' Sample Matrix: [Metals] Metals Acid Digestion FPA 3050B 11/11/21 TLB Complete 1.0 Arsenic <1.0 mg/Kg EPA 6010B 1.0 1.0 11/11/21 TLB [Pesticides] Ultrasonic Extraction Complete EPA 3550 1.0 11/10/21 DV Aldrin < 0.0050 mg/Kg **EPA 8081A** 1.0 0.0050 11/10/21 JEN

mg/Kg

EPA 8081A

1.0

0.0050

11/10/21

JEN

< 0.0050



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS2111-00079

PLACEWORKS
DENISE CLENDENING
2850 INLAND EMPIRE BLVD.
SUITE B

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number

ONTARIO, CA 91764

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Customer P.O. COI-53

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 B-3@0.5' Sample Matrix: Soil continued					Date & Time Sar	npled:	11/09/21 @	7:50
beta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
delta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
gamma-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
4,4'-DDD	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDE	0.0062		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDT	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Dieldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan I	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan II	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan Sulfate	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin Aldehyde	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin ketone	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor Epoxide	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	11/10/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	120		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Decachlorobiphenyl	120		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Sample: 008 B-2@0.5' Sample Matrix: Soil					Date & Time Sar	npled:	11/09/21 @	8:06
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/11/21	TLB
Arsenic	2.6		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		11/10/21	DV
Aldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
alpha-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS

PLACEWORKS DENISE CLENDENING 2850 INLAND EMPIRE BLVD. SUITE B ONTARIO, CA 91764 2111-00079

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Customer P.O. COI-53

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 B-2@0.5' Sample Matrix: Soil					Date & Time Sar	mpled:	11/09/21 @	8:06
continued								
beta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
delta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
gamma-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
4,4'-DDD	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDE	0.015		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDT	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Dieldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan I	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan II	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan Sulfate	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin Aldehyde	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin ketone	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor Epoxide	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	11/10/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	130		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Decachlorobiphenyl	110		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Sample: 009 B-1@0.5' Sample Matrix: Soil					Date & Time Sar	mpled:	11/09/21 @	8:25
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/11/21	TLB
Arsenic	2.3		mg/Kg	EPA 6010B	1.0	1.0	11/11/21	TLB
[Pesticides]								
Ultrasonic Extraction	Complete			EPA 3550	1.0		11/10/21	DV
Aldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
alpha-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
•			5. 5				- ·	



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

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

CERTIFICATE OF ANALYSIS

2111-00079

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

 Date Reported
 11/18/21

 Date Received
 11/09/21

 Invoice No.
 93377

 Cust #
 P135

Permit Number

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT

Customer P.O. COI-53

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 009 B-1@0.5' Sample Matrix: Soil continued					Date & Time San	npled:	11/09/21 @	8:25
beta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
delta-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
gamma-BHC	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Chlordane	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
4,4'-DDD	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDE	0.0078		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
4,4'-DDT	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Dieldrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan I	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan II	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endosulfan Sulfate	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin Aldehyde	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Endrin ketone	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Heptachlor Epoxide	<0.0050		mg/Kg	EPA 8081A	1.0	0.0050	11/10/21	JEN
Methoxychlor	<0.010		mg/Kg	EPA 8081A	1.0	0.010	11/10/21	JEN
Toxaphene	<0.050		mg/Kg	EPA 8081A	1.0	0.050	11/10/21	JEN
[Surrogates]								
Tetrachloro-m-xylene	120		%REC	EPA 8081A/8082		50-150	11/10/21	JEN
Decachlorobiphenyl	110		%REC	EPA 8081A/8082		50-150	11/10/21	JEN

Respectfully Submitted:

Ken 3 heng

Ken Zheng - Lab Director



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com office@arlaboratories.com

 $CHEMISTRY \cdot MICROBIOLOGY \cdot FOOD \ SAFETY \cdot MOBILE \ LABORATORIES$ $FOOD \cdot COSMETICS \cdot WATER \cdot SOIL \cdot SOIL \ VAPOR \cdot WASTES$

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



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

office@arlaboratories.com

 $CHEMISTRY \cdot MICROBIOLOGY \cdot FOOD \ SAFETY \cdot MOBILE \ LABORATORIES$ $FOOD \cdot COSMETICS \cdot WATER \cdot SOIL \cdot SOIL \ VAPOR \cdot WASTES$

QUALITY CONTROL DATA REPORT

PLACEWORKS ONTARIO, CA 91764 2111-00079

Date Reported 11/18/2021 **Date Received** 11/09/2021 **Date Sampled** 11/09/2021 Invoice No. 93377 Customer # P135 Customer P.O. COI-53

Project: IRVINE ANIMAL CARE CENTER & **OPERATIONS SUPPORT FACILITY**

-	99378	Date Analys							
р.со		Date Allalyze	ed: 11/11/2021		Technician	: TLB			
	004 005								
Results							Control Rai	nges	
	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD
Antimony	102	99	2.7	81	82	1.3	75 - 125	0 - 20	0 - 20
Arsenic	101	100	0.6	84	87	3.0	75 - 125	0 - 20	0 - 20
Barium	101	103	2.2	86	87	0.6	75 - 125	0 - 20	0 - 20
Beryllium	103	105	2.4	94	95	0.8	75 - 125	0 - 20	0 - 20
Cadmium	101	101	0.4	82	83	1.0	75 - 125	0 - 20	0 - 20
Chromium	102	104	1.6	103	105	0.6	75 - 125	0 - 20	0 - 20
Cobalt	100	101	0.6	71	72	1.7	75 - 125	0 - 20	0 - 20
Copper	104	106	1.8	83	85	0.8	75 - 125	0 - 20	0 - 20
Lead	100	101	1.0	76	77	1.7	75 - 125	0 - 20	0 - 20
Molybdenum	100	100	0.3	81	82	1.5	75 - 125	0 - 20	0 - 20
Nickel	100	101	0.3	70	74	2.0	75 - 125	0 - 20	0 - 20
Selenium	101	102	1.3	69	70	1.8	75 - 125	0 - 20	0 - 20
Silver	102	103	0.5	76	76	0.2	75 - 125	0 - 20	0 - 20
Thallium	110	107	2.9	65	66	0.4	75 - 125	0 - 20	0 - 20
Vanadium	102	103	1.2	87	90	0.9	75 - 125	0 - 20	0 - 20
Zinc	101	101	0.0	73	77	1.1	75 - 125	0 - 20	0 - 20
QC Reference #	99379	Date Analyze	ed: 11/11/2021		Technician	: TLB	'		
Samples 001	007 008 009								
Results							Control Rai	nges	
	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD
Arconic	101	100	0.6	0.4	07	2.0	75 - 125	0 - 20	0 - 20
Arsenic Lead	101 100	100 101	0.6	84	87 77	3.0 1.7	75 - 125	0 - 20	0 - 20
Lead		101	1.0	76	//	1./	1 .5 125		- 20
Method #	EPA 7471A								
QC Reference #	99426	Date Analyze	ed: 11/12/2021		Technician	: KZ			
Samples 002	004 005						Control Do		
Results	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	Control Rai	LCS %RPD	SPIKE %RPD
Mercury	85	94	9	91	82	9	75 - 125	0 - 25	0 - 25
Method #	EPA 8015M								

QC Reference # 99517 **Date Analyzed:** 11/10/2021 Technician: JEN

Samples 005

Results LCS %REC SPIKE SPIKE SPIKE %REC %DUP %RPD C13-C22 100 119 110

Control Ranges LCS %REC SPIKE %RPD

70 - 130 0 - 25



1650 S. GROVE AVE., SUITE C ONTARIO, CA 91761 909-781-6335

www.arlaboratories.com

om office@arlaboratories.com

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

QUALITY CONTROL DATA REPORT 2111-00079

PLACEWORKS

 Date Reported
 11/18/2021

 Date Received
 11/09/2021

 Date Sampled
 11/09/2021

Project: IRVINE ANIMAL CARE CENTER & OPERATIONS SUPPORT FACILITY

Method #	EPA 8081A						
QC Reference #	99438	Date Analyz	zed: 11/10/2021		Technician: JEN		
Samples 001	004 007 008	009					
Results						Control Ranges	
	LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD		LCS %REC SPIKE %RPD	
4,4'-DDT	63	62	60	3		30 - 130 0 - 30	
Aldrin	130	130	140	10		50 - 140 0 - 30	
Dieldrin	130	140	130	10		70 - 130 0 - 30	
Endrin	90	90	84	6		70 - 150 0 - 30	
gamma-BHC	120	120	110	10		50 - 150 0 - 30	
Heptachlor	100	120	110	10		50 - 150 0 - 30	
Method #	EPA 8081A/	8082					
QC Reference #	99438	Date Analyz	zed: 11/10/2021		Technician: JEN		
Samples 001	004 007 008	009					
No QC reco	varios rana	rtod					
_	-					ı	_
Method #	LUFT GC/MS						
QC Reference #	99420	Date Analyz	zed: 11/12/2021		Technician: JEN		
Samples 002	003 005						
Results						Control Ranges	
	LCS %REC	LCS %DUP	LCS %RPD			LCS %REC LCS %RPD	
C4-C12	100	101	1			70 - 130 0 - 25	
QC Reference #	99421	Date Analyz	zed: 11/12/2021		Technician: JEN	I	
Samples 006							
						Control Ranges	
Results							
	LCS %REC					LCS %REC	
C4-C12	96					70 - 130	
J. 512	50					I .	

No method blank results were above reporting limit

Respectfully Submitted: Ken 3heng

Ken Zheng - President



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 #:

2111-79

Page of

Client Name PLACE WORKS							► Chilled	Analyses Requested Turn A								Turn Around Time Requested						
Report	DCLEND(N) \$2855 \(\text{NLAN} \) Attention Phone #9 The second of	09	MP/11 989	19449°	Sampled By		Intact ☐ Seal If ER be Acill Ty 6X	VOCs & Oxygenates)	STEX & Oxygenates)	LUFT / 8015 (Gasoline)	5 (Diesel)	EPA8081A (Organochlorine Pesticides)	PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Arenic				P	Rush 8 12 24 48 Hours Normal
Lab #	Client Sample ID	-	mple C	Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs &	EPA8260B(BTEX	LUFT / 801	LUFT / 8015 (Diesel)	EPA8081A	EPA 8082 (PCBs)	EPA 8015M	EPA 6010B,	Micro: Plate	golog				10/	Remarks
1	B-460.51	11	19/21	0718	527	ice	1 seems			\vee		X			V		X					
2	B-485.0			0722						\hat{X}					\wedge		Ma	20				
4	B-5005'			0734						V		X			X		撇		1			
5 6	B-562.0			0736 0738						X				X	\wedge				+			, , , , ,
7	B-3805'			0750								X					X		1		V	
	B-382.50 B-3850		2. 2	0754						S. A.	9								+	+	X	
8	B-2005'			0806	4						9	X		-			X					
	1202.5°	H		08/2											1				+	+	X	
9	B-1805'			0825								X					X				1	3
	B-182.5)	0827	1					M	3			72.0							X	-
Reflinquished by Company Date Time Received By Company Date 1992 Oo S Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																						

PP=Pure Product



Sample Acceptance Checklist

CLIENT: Placeworks	WORK ORDER NUMBER	R: 2111	-79	7						
Temperature:(Criteria:0.0°C-6.0°C)				- Acceptance						
Sample Temp.(w/CF) °C(w/CF) 3. 4	l'c.									
Sample(s) outside temprature criteria: F	PM contacted by :									
Sample(s) outside temprature criteria, but received on ice/chilled on same day										
of sampling.										
Sam <u>ple(s)</u> receive <u>d at ambient te</u> mprati	ure; placed on ice for t	ranspoi	rt by c	ourier.						
Ambient Temprature Air Filter										
CUSTODY SEAL:				3						
	ent and Not Intact	Not Pr								
	ent and Not Intact 📂	Not Pr								
Sample Condition:		Yes	No	N/A						
Was a COC received	b									
Were sample IDs present?	9									
Were sampling dates & times present?		D								
Was a relingquished signature present?	X		<u> </u>							
Were the tests required clearly indicated? Were all samples sealed in plastic bags?	×	-								
		-	×							
Did all bottle labels agree with COC? (ID, da		—	1 4							
Were correct containers used for the tests r	70	-								
Was a sufficient amount of samples sent fo	X	-								
Was there headspace in VOA vials? Were the containers labeled with correct pro		-	X							
Explanations/Comments:	eservatives?			<u> </u>						
Explanations/comments.										
Notification:										
For discrepancies, how was the Project Mai	nager notified? Verl	al	1	in the co						
	Data/Time:	Jai		4 44 - 44						
Email: Send to:	Data/Time			- : .						
Project Manager's response:	Bata/Time									
,										
//										
Completed By:	,	,								
Completed By: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date: 11/a	21								

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