Phase II Environmental Site Assessment

Vista II
145 Hannalei Drive
Vista, California 92083

May 13, 2021

Prepared for:

Warmington Residential California, Inc.
3090 Pullman Street
Costa Mesa, CA 92626

Prepared by:

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Project No.: 185804987

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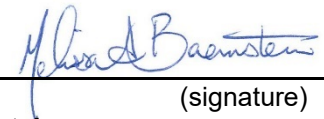
Prepared by  (signature)

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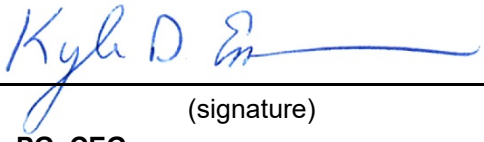
Approved by  (signature)

Kyle Emerson, PG, CEG

Managing Principal Geologist

Table of Contents

EXECUTIVE SUMMARY ..... **I**

1.0 INTRODUCTION **1.1**
1.1 SITE DESCRIPTION AND OPERATIONS 1.1
1.2 SITE GEOLOGY AND HYDROGEOLOGY 1.1

2.0 BACKGROUND INFORMATION **2.2**

3.0 FIELD INVESTIGATION PROGRAM **3.1**
3.1 PRE-ASSESSMENT ACTIVITIES 3.1
3.2 FIELD INVESTIGATION 3.1
3.2.1 Soil Boring and Sampling Procedures 3.1

4.0 LABORATORY TESTING PROGRAM **4.1**

5.0 INVESTIGATION RESULTS **5.1**
5.1 FIELD OBSERVATIONS 5.1
5.2 ANALYTICAL RESULTS 5.1
5.2.1 Soil Analytical Results 5.1

6.0 CONCLUSIONS AND RECOMMENDATIONS **6.1**

7.0 LIMITATIONS **7.1**

8.0 REFERENCES **8.1**

LIST OF TABLES

Table 1 – Summary of Soil Analytical Results

LIST OF FIGURES

Figure 1 – Property Location Map
Figure 2 – Property Details

LIST OF APPENDICES

Appendix A – Laboratory Data Sheets

Executive Summary

This report documents the methodology and results of a Phase II Environmental Site Assessment (ESA) completed by Stantec Consulting Services Inc. (Stantec) for the property located at 145 Hannalei Drive, in the City of Vista, County of San Diego, California (the "Property"). This scope of work was completed in accordance with the Master Services Agreement with the client (the "MSA"), based on the scope of work set forth in the *Proposal to Conduct Phase II Environmental Site Investigation* dated February 26, 2021. All work shall be completed in accordance with the limitations stated in the Consultant Agreement between Warmington Residential California, Inc. and Stantec.

Stantec completed a Phase I ESA for the Property in February 2021. That report identified the following recognized environmental conditions (RECs) in connection with the Property:

- **Former Agricultural Use and Adjacent Railroad Tracks.** Stantec's interpretation of historical aerial photos indicate the Property and surrounding area was used for agricultural land in the 1939 photograph. From 1946 through the late 1960s the Property was vacant land with a significant elevation differential between the west and east portion of the Property. The 1979 photograph shows the Property was graded to reduce the grade differential and develop the existing baseball fields. Surrounding properties were mostly agricultural in the 1940s and 1950s. Between 1960 and the mid-1980s the surrounding area was developed with residential tract housing and a few small commercial businesses. The existing railroad was present in all aerial photographs reviewed (1939-2016). The historic agricultural use and the adjacent rail line were identified as RECs to the Property.

Based on the results of the Phase I ESA report, Stantec recommended that shallow soil samples be collected to evaluate if organochlorine pesticides (OCPs) or lead or arsenic were present at concentrations of concern due to historic agricultural uses and along the rail line the meatals arsenic and lead due to potential herbicide uses in that area. These metals and OCPs were assessed in soil to evaluate if they posed a concern to the residential development of the Property. The following report presents the findings of that recommended assessment.

Stantec provided the services of a field geologist to supervise and direct all on-site activities. Soil sampling and was performed on May 4, 2021. All field work was performed under the supervision of a State of California registered professional geologist, and included the following activities:

Former Agricultural Use

Six (6) soil borings were advanced to a maximum depth of three (3) feet below ground surface (bgs) throughout the Property. Soil samples were collected at 0.5 to 1.0, 1.5 to 2.0, and 2.5 to 3.0 feet bgs depth intervals for potential analysis of organochlorine pesticides (OCPs), lead, and arsenic. The shallow soil sample collected from the 1-foot interval were submitted for laboratory analysis of OCPs and lead/arsenic. The deeper soil samples were placed on hold pending the results of the shallow soil sample.

Adjacent Railroad Tracks

Three (3) soil borings were advanced to a maximum depth of 3 feet bgs along the eastern boundary of the Property. Soil samples were collected at 0.5 to 1.0, 1.5 to 2.0, and 2.5 to 3.0 feet bgs depth intervals for potential analysis of lead and arsenic. The shallow soil sample collected from the 1-foot interval were submitted for laboratory analysis of lead and arsenic. The deeper soil samples were placed on hold pending the results of the shallow soil sample.

Analytical Results

There were no detections of OCPs above the laboratory reporting limit (i.e. non-detect) for the six soil samples collected within the western portion of the Property. Lead was detected in all six soil samples at concentrations below the Department of Toxic Substance Control (DTSC) Human and Ecological Risk Office of Human Health Risk Assessment (HERO) Note 3 and the United States Environmental Protection Agency (EPA) Regional Screening Level (RSL). Arsenic was detected in all six soil samples at concentrations above DTSC HERO Note 3 screening level of 0.41 milligrams per kilogram (mg/kg) and the EPA RSL of 0.68 mg/kg levels for residential use; however, all detections were within typical California naturally occurring background concentration ranges (0.6-11 mg/kg). Therefore, historical agricultural activities do not represent a REC to the Property and no further assessment appears warranted.

The results of soil samples collected along the eastern Property line near the railroad tracks were below regulatory screening levels for lead. Arsenic was detected above DTSC HERO Note 3 and EPA RSL levels for residential use in all but one of these samples; however, the concentrations were within typical California naturally occurring background concentration ranges. Therefore, railroad tracks do not represent a REC to the Property and no further assessment appears warranted.

The preceding summary is intended for informational purposes only and reading the full body of this report is recommended.

1.0 INTRODUCTION

This report documents the methodology and results of a Phase II Environmental Site Assessment (ESA) completed by Stantec Consulting Services Inc. (Stantec) for the property located at 145 Hannalei Drive, in the City of Vista, County of San Diego, California (the "Property"). This scope of work was completed in accordance with the *Proposal to Conduct Phase II Environmental Site Investigation*, dated and approved by the Client on February 26, 2021.

1.1 SITE DESCRIPTION AND OPERATIONS

The Property consists of approximately 6.01 acres located at 145 Hannalei Drive, in the City of Vista, California. Existing development onsite includes a parking lot, three baseball fields, and a snack shack and covered seating for the baseball field. Surrounding properties consist of residential properties and a church and school to the west and south, respectively. A railroad easement is adjacent to the east and vacant land is to the north.

The Assessor Parcel Number (APN) associated with the Property is 1830608400.

1.2 SITE GEOLOGY AND HYDROGEOLOGY

The Property is located in San Diego County. The area is located within the Peninsular Ranges Geomorphic Province, which includes northwest-southeast trending features that have been developed by the San Andreas Fault system (California Geological Survey [CGS], 2002). The stratigraphy underlying the Property consists of granite, quartz monzonite, granodiorite, and quartz diorite of Mesozoic age (Geotracker, 2020).

No active seismic faults have been mapped within a 0.5 mile radius of the subject property. The closest mapped active fault is the Oceanside Section of the Newport-Inglewood Rose Canyon Fault located approximately 9.25 miles to the west in the Pacific Ocean. According to official maps of California, the Property is not located within an Alquist-Priolo (AP) Earthquake Fault Zone boundary (CGS, 2010).

The Property is located within the San Diego Hydrologic Groundwater Basin. Based on the Regional Water Quality Controls Board's (RWQCB) San Diego Hydrologic Groundwater Basin Planning Area map, groundwater in the Property vicinity is within the Buena hydrologic subarea of the Agua Hedionda (904.32) watershed (Geotracker, 2020). The Agua Hedionda watershed drains 31 square miles of land and includes portions of the cities of Carlsbad, Vista, Oceanside, and San Marcos. Stantec attempted to obtain groundwater depth information from multiple online sources. However, the only data found regarding groundwater in the vicinity was for two release sites (Post Office – 960 Postal Way and Former Shell station – 400 Sycamore Ave) located approximately one mile from the Property. Groundwater data collected from these sites was measured between 11 and 15 feet below ground surface (bgs) with a westerly (west or northwest) flow direction. However, it should be noted that the Property is at a significantly higher elevation (>80 feet) than the two release sites and as a result, groundwater is expected to be deeper than 15 feet bgs below the Property.

2.0 BACKGROUND INFORMATION

Stantec completed a Phase I ESA for the Property in February 2021. That report identified the following recognized environmental conditions (RECs) in connection with the Property:

- **Former Agricultural Use and Adjacent Railroad Tracks.** Stantec's interpretation of historical aerial photos indicate the Property and surrounding area was used for agricultural land in the 1939 photograph. From 1946 through the late 1960s the Property was vacant land with a significant elevation differential between the west and east portion of the Property. The 1979 photograph shows the Property was graded to reduce the grade differential and develop the existing baseball fields. Surrounding properties were mostly agricultural in the 1940s and 1950s. Between 1960 and the mid-1980s the surrounding area was developed with residential tract housing and a few small commercial businesses. The existing railroad was present in all aerial photographs reviewed (1939-2016).

  Based on past agricultural activities in the western portion of the Property, Stantec recommended performing a Phase II subsurface assessment to evaluate whether residual organochlorine pesticides (OCPs) or heavy metals (lead and arsenic) associated with herbicide applications are present above regulatory screening levels, human health risk criteria or California hazardous waste levels, including for determining the extent to which worker protection measures and/or special off-site disposal measures may be necessary. In addition, Stantec recommended that shallow soil be sampled for arsenic and lead associated with potential herbicide application along the eastern Property boundary which are sometimes found in shallow soil adjacent to railroads.

Stantec identified the following non-scope items. These items are addressed in a separate report.

- **Asbestos and Lead-Based Paint.** Given the age of the existing structures on the Property (circa 1980), the presence of asbestos-containing materials ("ACM") and lead-based paint is considered possible. Stantec recommended that prior to demolition, a comprehensive pre-demolition ACM survey be completed in accordance with the sampling criteria of the Asbestos Hazard Emergency Response Act ("AHERA"), and that a certified asbestos abatement contractor be retained to remove ACM in accordance with all applicable laws.

- In addition, a portion of the Property is paved with asphalt. Stantec recommended inspecting the asphalt for the presence of Petromat and if observed, sampling Petromat for the presence of asbestos.

Based on the results of the Phase I ESA report, Stantec created a scope of work which would address the identified RECs. The scope of work is discussed in Section 3.1.

3.0 FIELD INVESTIGATION PROGRAM

3.1 PRE-ASSESSMENT ACTIVITIES

The scope of work consisted of the following general elements:

Prior to the commencement of fieldwork activities, Stantec made the following preparations:

- As required by law, Stantec visited the Site to mark the proposed boring locations and acquire a current Underground Service Alert (USA) ticket number prior to commencement of Property boring activities.

3.2 FIELD INVESTIGATION

Stantec provided the services of a field geologist to supervise and direct all on-site activities. Soil sampling was performed on May 4, 2021. All field work was performed under the supervision of a State of California registered professional geologist, and included the following activities:

Former Agricultural Use

Six (6) soil borings were advanced to a maximum depth of 3 feet bgs throughout the Property. Soil samples were collected at 0.5 to 1.0, 1.5 to 2.0, and 2.5 to 3.0 feet bgs depth intervals for potential analysis of OCPs, lead, and arsenic. The shallow soil sample collected from the 1-foot interval will be submitted for laboratory analysis of OCPs and lead/arsenic. The deeper soil samples were placed on hold pending the results of the shallow soil sample.

Adjacent Railroad Tracks

Three (3) soil borings were advanced to a maximum depth of 3 feet bgs along the eastern boundary of the Property. Soil samples were collected at 0.5 to 1.0, 1.5 to 2.0, and 2.5 to 3.0 feet bgs depth intervals for potential analysis of lead and arsenic. The shallow soil sample collected from the 1-foot interval were submitted for laboratory analysis of lead and arsenic. The deeper soil samples were placed on hold pending the results of the shallow soil sample.

3.2.1 Soil Boring and Sampling Procedures

Hand Auger Borings/Sampling

All nine (9) borings were advanced using a hand auger to the respective desired depths. Upon extraction of the auger bucket at the prescribed sampling depths, the soils contained therein were packed into laboratory-provided clean glass jars and labeled with the appropriate identification information (boring number, sample depth, sample collection date, and sample collection time). The samples were logged on a chain-of-custody form and placed in an ice-filled cooler for transport to the laboratory.

Field Equipment Cleaning Procedures

To maintain quality control during drilling operations, all hand auger buckets and reusable soil sampling equipment was decontaminated using a triple bucket rinse. Prior to drilling at a given location, all equipment coming in direct contact with soil samples was scrubbed with an Alconox scrub solution followed by a clean tap water rinse and then a final distilled water rinse.

Investigation-Derived Waste

All soil cuttings generated during the Phase II ESA investigation were placed back into the boring from which they came.

4.0 LABORATORY TESTING PROGRAM

A total of twenty-seven (27) soil samples were collected during this investigation and delivered under chain-of-custody to Advanced Technology Laboratories (ATL) based in Signal Hill, California for possible chemical analyses. ATL is certified to perform hazardous waste testing by the State of California Department of Health Services, Environmental Laboratory Accreditation Program.

Of the 27 soil samples collected, six (6) soil samples were analyzed for OCPs by EPA Method 8081A; and 27 soil samples were analyzed for arsenic and lead by EPA Method 6010B. All soil samples collected during this investigation were kept on-ice during transit to the laboratory.

5.0 INVESTIGATION RESULTS

5.1 FIELD OBSERVATIONS

On March 4, 2021, Stantec personnel advanced nine (9) soil borings at the Property. Soils encountered during this investigation consisted primarily of silty sand to a maximum explored depth of three feet bgs. No staining or odorous soils were observed in any borings during this investigation. Groundwater was not encountered during this investigation.

5.2 ANALYTICAL RESULTS

Laboratory analytical test results from this assessment are summarized in the attached Table 1 and presented on the laboratory data sheets attached as Appendix B. The laboratory test results from this investigation are discussed below. Soil analytical results were compared to the more conservative value between the DTSC Human and Ecological Risk Office (HERO) Note 3 screening level for residential use (DTSC, 2020) and the EPA Regional Screening Levels (RSL), Region 9 for residential sites (EPA, 2020).

5.2.1 Soil Analytical Results

Arsenic was detected in eight of the nine soil samples ranging in concentrations from 1.1 to 2.5 milligrams per kilogram (mg/kg). Arsenic in soil sample S-9-1 was not-detected above the laboratory reporting limit. Lead was detected in all nine soil samples at concentrations ranging from 3.6 and 23 milligrams per kilogram (mg/kg). All arsenic levels detected exceed DTSC HERO Note 3 and EPA RSLs for residential use. All lead levels detected do not exceed DTSC HERO Note 3 or EPA RSLs for residential use. All detected metals concentrations are within typical California background concentration ranges.

There were no detections of OCPs above the laboratory reporting limit (i.e. non-detect).

6.0 CONCLUSIONS AND RECOMMENDATIONS

There were no detections of OCPs above the laboratory reporting limit (i.e. non-detect) for the six soil samples collected within the western portion of the Property. Lead was detected in all six soil samples at concentrations below the DTSC HERO Note 3 and the EPA RSL. Arsenic was detected in all six soil samples at concentrations above DTSC HERO Note 3 screening level of 0.41 mg/kg and the EPA RSL of 0.68 mg/kg levels for residential use; however, all detections were within typical California naturally occurring background concentration ranges (0.6-11 mg/kg). Therefore, historical agricultural activities do not represent a REC to the Property and no further assessment appears warranted.

The results of soil samples collected along the eastern Property line near the railroad tracks were below regulatory screening levels for lead. Arsenic was detected above DTSC HERO Note 3 and EPA RSL levels for residential use in all but one of these samples; however, the concentrations were within typical California naturally occurring background concentration ranges. Therefore, railroad tracks do not represent a REC to the Property and no further assessment appears warranted.

7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. The opinions of this report have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice that is contained within the body of this report.

Inherent in most projects performed in a heterogeneous subsurface environment, continuing excavation and assessments may reveal findings that are different than those presented herein. This facet of the environmental profession should be considered when formulating professional opinions on the limited data collected on these projects.

This report has been issued with the clear understanding that it is the responsibility of the owner, or their representative, to make appropriate notifications to regulatory agencies. It is specifically not the responsibility of Stantec to conduct appropriate notifications as specified by current County and State regulations.

The information presented in this report is valid as of the date our exploration was performed. Site conditions may degrade with time; consequently, the findings presented herein are subject to change. In the event of any conflict between the terms and conditions of this report and the terms and conditions of the Consultant Agreement between Stantec and Warmington (the “MSA”), the MSA shall control.

8.0 REFERENCES

California Water Resources Control Board, 2019, San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, date January 24.

Department of Toxic Substances Control, 2020, Human and Ecologic Risk Office Note 3, dated June.

Stantec Consulting Services Inc, 2021, Phase I Environmental Site Assessment, dated February 26.

Stantec Consulting Services Inc, 2021, Phase II Environmental Site Assessment Proposal, dated February 26.

United Stated Environmental Protection Agency, 2020, Regional Screening Levels, Region 9, dated May.

TABLE

TABLE 1
Summary of Soil Analytical Results
145 Hannlei Drive, Vista, CA
185804987

Boring Location	Sample ID	Sample Depth (feet)	Sample Date	Arsenic and Lead by 6010B		OCPs by 8081A					
				Arsenic	Lead	4,4'-DDD	4,4'-DDE	4,4'-DDT	gamma-Chlordane	Toxaphene	Others
USEPA RSLs (Residential)				***0.68***	***400***	***1.9***	***2.0***	***1.9***	***NE***	***0.49***	**Varies**
DTSC HERO Note 3 (Residential)				***0.41***	***80***	***1.9***	***23***	***37***	***NE***	***0.45***	**Varies**
California Background Levels [(2)]				***0.6 - 11.0***	***12.4 - 97.1***	***NE***	***NE***	***NE***	***NE***	***NE***	**Varies**
Throughout	S-1-1	1.0	5/4/21	**1.8**	**3.7**	<0.002	<0.002	<0.002	<0.001	<0.050	<varies
	S-2-1	1.0	5/4/21	**2.2**	**6.1**	<0.002	<0.002	<0.002	<0.001	<0.050	<varies
	S-3-1	1.0	5/4/21	**1.2**	**5.9**	<0.002	<0.002	<0.002	<0.001	<0.050	<varies
	S-4-1	1.0	5/4/21	**2.5**	**4.3**	<0.002	<0.002	<0.002	<0.001	<0.050	<varies
	S-5-1	1.0	5/4/21	**1.1**	**5.5**	<0.002	<0.002	<0.002	<0.001	<0.050	<varies
	S-6-1	1.0	5/4/21	**1.2**	**4.0**	<0.002	<0.002	<0.002	<0.001	<0.050	<varies
Eastern Property Boundary	S-7-1	1.0	5/4/21	**2.3**	**23**	NA	NA	NA	NA	NA	NA
	S-8-1	1.0	5/4/21	**1.1**	**3.6**	NA	NA	NA	NA	NA	NA
	S-9-1	1.0	5/4/21	<0.97	**4.6**	NA	NA	NA	NA	NA	NA

Notes:

All concentrations reported in miligrams per kilogram (mg/kg).

(1) - More conservative screening level between USEPA Region 9 RSL (May, 2020) and DTSC HERO Note 3

DTSC - Department of Toxic Substance Control

HERO HHRA - Human and Ecological Risk Office Human Health Risk Assessment

NA - Not Analyzed

NE - Not Established

RSL - Regional Screening Level

USEPA - United States Environmental Protection Agency

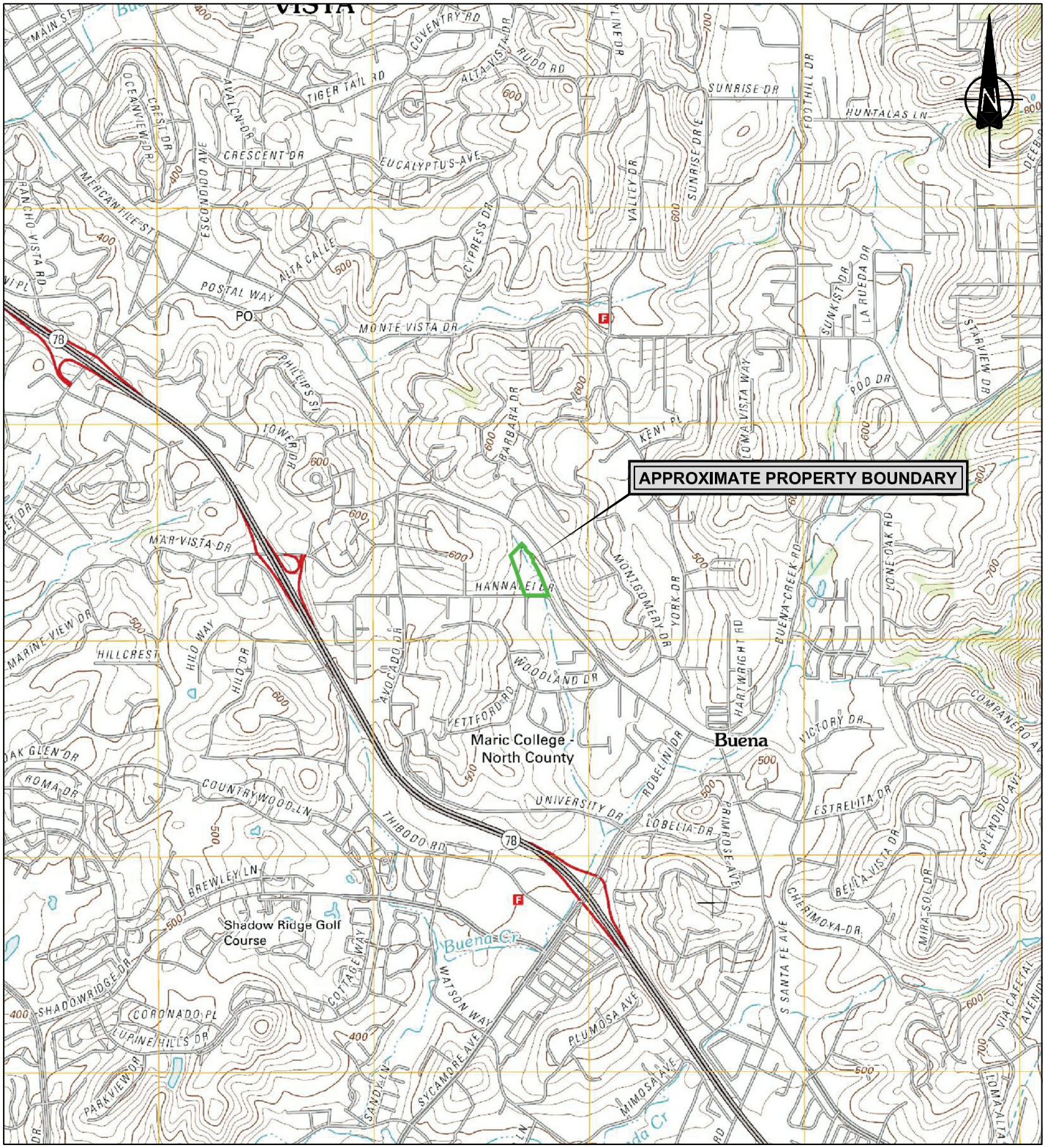
OCPs - Organochlorine Pesticides

BOLD Denotes analyte was detected above the laboratory reporting limit

< - Denotes analyte was not detected above the laboratory reporting limit

Yellow shading indicates value above the residential screening level.

FIGURES



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC SERVICES INC. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

PROPERTY LOCATION MAP

PHASE I ENVIRONMENTAL SITE ASSESSMENT

145 HANNALEI DRIVE, VISTA, CA 92083

Client: WARMINGTON RESIDENTIAL

Project No.:	185804987
Scale:	AS SHOWN
Date:	21/01/07
Dwn. By:	CD DM SC2021010010
App'd By:	KE

Fig. No.: 1

Stantec

Property Boundary

Hand Auger Locations

0 75 150 Feet

(At original document size of 8.5x11)
1:1,500

N

Stantec

Notes

1. Coordinate System: NAD 1983 UTM Zone 11N
2. Data Sources: Stantec, 2021
3. Background: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project Location
Vista Hannalei Street Project
Vista, California

Client/Project
Warmington Residential
185804987
Phase I Environmental Site Assessment

Figure No.
2

Title
PROPERTY DETAILS

V:\1858\active\185801858804987\05_report_deliv\drawings_design\gis_map Revised: 2021-05-13 By: dehernandez

APPENDIX A

Laboratory Data Sheets

May 11, 2021

Alicia Jansen
Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408
Tel: (909) 335-6116
Fax:(909) 335-6120

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 2101020
Client Reference : 185804987, Warmington

Enclosed are the results for sample(s) received on May 04, 2021 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Edgar P. Caballero
Laboratory Director

Certificate of Analysis

Stantec		Project Number :	185804987, Warmington
735 E. Carnegie Drive, Suite 280		Report To :	Alicia Jansen
San Bernardino , CA 92408		Reported :	05/11/2021

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1-1	2101020-01	Soil	5/04/21 8:15	5/04/21 15:00
S-2-1	2101020-04	Soil	5/04/21 8:40	5/04/21 15:00
S-3-1	2101020-07	Soil	5/04/21 10:25	5/04/21 15:00
S-4-1	2101020-10	Soil	5/04/21 9:45	5/04/21 15:00
S-5-1	2101020-13	Soil	5/04/21 10:45	5/04/21 15:00
S-6-1	2101020-16	Soil	5/04/21 11:05	5/04/21 15:00
S-7-1	2101020-19	Soil	5/04/21 9:00	5/04/21 15:00
S-8-1	2101020-22	Soil	5/04/21 9:20	5/04/21 15:00
S-9-1	2101020-25	Soil	5/04/21 11:20	5/04/21 15:00

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-1-1

Lab ID: 2101020-01

Total Metals by ICP-AES EPA 6010B

Analyst: AMP

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.8**	0.98	1	B1E0041	05/05/2021	05/06/21 13:28	
Lead	**3.7**	0.98	1	B1E0041	05/05/2021	05/06/21 13:28	

Organochlorine Pesticides by EPA 8081A

Analyst: AC

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
4,4´-DDE	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
4,4´-DDT	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Aldrin	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
alpha-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
alpha-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
beta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Chlordane	ND	8.5	1	B1E0053	05/05/2021	05/06/21 14:23	
delta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Dieldrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Endosulfan I	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Endosulfan II	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Endosulfan sulfate	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Endrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Endrin aldehyde	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Endrin ketone	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:23	
gamma-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
gamma-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Heptachlor	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Heptachlor epoxide	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Methoxychlor	ND	5.0	1	B1E0053	05/05/2021	05/06/21 14:23	
Toxaphene	ND	50	1	B1E0053	05/05/2021	05/06/21 14:23	
Surrogate: Decachlorobiphenyl	*28.7 %*	*9 - 80*		B1E0053	05/05/2021	*05/06/21 14:23*	
Surrogate: Tetrachloro-m-xylene	*32.7 %*	*13 - 77*		B1E0053	05/05/2021	*05/06/21 14:23*	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-2-1

Lab ID: 2101020-04

Total Metals by ICP-AES EPA 6010B — **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.2**	1.0	1	B1E0041	05/05/2021	05/06/21 13:29	
Lead	**6.1**	1.0	1	B1E0041	05/05/2021	05/06/21 13:29	

Organochlorine Pesticides by EPA 8081A — **Analyst: AC**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
4,4´-DDE	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
4,4´-DDT	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Aldrin	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
alpha-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
alpha-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
beta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Chlordane	ND	8.5	1	B1E0053	05/05/2021	05/06/21 14:34	
delta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Dieldrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Endosulfan I	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Endosulfan II	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Endosulfan sulfate	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Endrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Endrin aldehyde	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Endrin ketone	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:34	
gamma-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
gamma-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Heptachlor	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Heptachlor epoxide	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Methoxychlor	ND	5.0	1	B1E0053	05/05/2021	05/06/21 14:34	
Toxaphene	ND	50	1	B1E0053	05/05/2021	05/06/21 14:34	
Surrogate: Decachlorobiphenyl	*19.7 %*	*9 - 80*		B1E0053	05/05/2021	*05/06/21 14:34*	
Surrogate: Tetrachloro-m-xylene	*26.9 %*	*13 - 77*		B1E0053	05/05/2021	*05/06/21 14:34*	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-3-1

Lab ID: 2101020-07

Total Metals by ICP-AES EPA 6010B — **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.2**	1.0	1	B1E0041	05/05/2021	05/06/21 14:32	
Lead	**5.9**	1.0	1	B1E0041	05/05/2021	05/06/21 14:32	

Organochlorine Pesticides by EPA 8081A — **Analyst: AC**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
4,4´-DDE	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
4,4´-DDT	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Aldrin	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
alpha-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
alpha-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
beta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Chlordane	ND	8.5	1	B1E0053	05/05/2021	05/06/21 14:44	
delta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Dieldrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Endosulfan I	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Endosulfan II	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Endosulfan sulfate	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Endrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Endrin aldehyde	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Endrin ketone	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:44	
gamma-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
gamma-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Heptachlor	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Heptachlor epoxide	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Methoxychlor	ND	5.0	1	B1E0053	05/05/2021	05/06/21 14:44	
Toxaphene	ND	50	1	B1E0053	05/05/2021	05/06/21 14:44	
Surrogate: Decachlorobiphenyl	*21.9 %*	*9 - 80*		B1E0053	05/05/2021	*05/06/21 14:44*	
Surrogate: Tetrachloro-m-xylene	*27.1 %*	*13 - 77*		B1E0053	05/05/2021	*05/06/21 14:44*	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-4-1

Lab ID: 2101020-10

Total Metals by ICP-AES EPA 6010B — **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.5**	0.99	1	B1E0041	05/05/2021	05/06/21 14:34	
Lead	**4.3**	0.99	1	B1E0041	05/05/2021	05/06/21 14:34	

Organochlorine Pesticides by EPA 8081A — **Analyst: AC**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
4,4´-DDE	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
4,4´-DDT	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Aldrin	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
alpha-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
alpha-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
beta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Chlordane	ND	8.5	1	B1E0053	05/05/2021	05/06/21 14:55	
delta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Dieldrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Endosulfan I	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Endosulfan II	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Endosulfan sulfate	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Endrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Endrin aldehyde	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Endrin ketone	ND	2.0	1	B1E0053	05/05/2021	05/06/21 14:55	
gamma-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
gamma-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Heptachlor	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Heptachlor epoxide	ND	1.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Methoxychlor	ND	5.0	1	B1E0053	05/05/2021	05/06/21 14:55	
Toxaphene	ND	50	1	B1E0053	05/05/2021	05/06/21 14:55	
Surrogate: Decachlorobiphenyl	*26.2 %*	*9 - 80*		B1E0053	05/05/2021	*05/06/21 14:55*	
Surrogate: Tetrachloro-m-xylene	*26.6 %*	*13 - 77*		B1E0053	05/05/2021	*05/06/21 14:55*	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-5-1

Lab ID: 2101020-13

Total Metals by ICP-AES EPA 6010B — **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	1	B1E0041	05/05/2021	05/06/21 14:36	
Lead	**5.5**	1.0	1	B1E0041	05/05/2021	05/06/21 14:36	

Organochlorine Pesticides by EPA 8081A — **Analyst: AC**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
4,4´-DDE	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
4,4´-DDT	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Aldrin	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
alpha-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
alpha-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
beta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Chlordane	ND	8.5	1	B1E0053	05/05/2021	05/06/21 15:06	
delta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Dieldrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Endosulfan I	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Endosulfan II	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Endosulfan sulfate	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Endrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Endrin aldehyde	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Endrin ketone	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:06	
gamma-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
gamma-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Heptachlor	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Heptachlor epoxide	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Methoxychlor	ND	5.0	1	B1E0053	05/05/2021	05/06/21 15:06	
Toxaphene	ND	50	1	B1E0053	05/05/2021	05/06/21 15:06	
Surrogate: Decachlorobiphenyl	*18.5 %*	*9 - 80*		B1E0053	05/05/2021	*05/06/21 15:06*	
Surrogate: Tetrachloro-m-xylene	*29.6 %*	*13 - 77*		B1E0053	05/05/2021	*05/06/21 15:06*	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-6-1

Lab ID: 2101020-16

Total Metals by ICP-AES EPA 6010B

Analyst: AMP

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.2**	1.0	1	B1E0041	05/05/2021	05/06/21 14:37	
Lead	**4.0**	1.0	1	B1E0041	05/05/2021	05/06/21 14:37	

Organochlorine Pesticides by EPA 8081A

Analyst: AC

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
4,4´-DDE	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
4,4´-DDT	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Aldrin	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
alpha-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
alpha-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
beta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Chlordane	ND	8.5	1	B1E0053	05/05/2021	05/06/21 15:16	
delta-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Dieldrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Endosulfan I	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Endosulfan II	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Endosulfan sulfate	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Endrin	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Endrin aldehyde	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Endrin ketone	ND	2.0	1	B1E0053	05/05/2021	05/06/21 15:16	
gamma-BHC	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
gamma-Chlordane	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Heptachlor	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Heptachlor epoxide	ND	1.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Methoxychlor	ND	5.0	1	B1E0053	05/05/2021	05/06/21 15:16	
Toxaphene	ND	50	1	B1E0053	05/05/2021	05/06/21 15:16	
Surrogate: Decachlorobiphenyl	*14.9 %*	*9 - 80*		B1E0053	05/05/2021	*05/06/21 15:16*	
Surrogate: Tetrachloro-m-xylene	*20.4 %*	*13 - 77*		B1E0053	05/05/2021	*05/06/21 15:16*	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-7-1

Lab ID: 2101020-19

Total Metals by ICP-AES EPA 6010B **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**2.3**	1.0	1	B1E0041	05/05/2021	05/06/21 14:39	
Lead	**23**	1.0	1	B1E0041	05/05/2021	05/06/21 14:39	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-8-1

Lab ID: 2101020-22

Total Metals by ICP-AES EPA 6010B **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	**1.1**	1.0	1	B1E0041	05/05/2021	05/06/21 14:41	
Lead	**3.6**	1.0	1	B1E0041	05/05/2021	05/06/21 14:41	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Client Sample ID: S-9-1

Lab ID: 2101020-25

Total Metals by ICP-AES EPA 6010B **Analyst: AMP**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.97	1	B1E0041	05/05/2021	05/06/21 14:42	
Lead	**4.6**	0.97	1	B1E0041	05/05/2021	05/06/21 14:42	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0041 - EPA 3050B_S										
Blank (B1E0041-BLK1)					Prepared: 5/5/2021 Analyzed: 5/6/2021					
Arsenic	ND	1.0	0.12							
Lead	ND	1.0	0.18							
LCS (B1E0041-BS1)					Prepared: 5/5/2021 Analyzed: 5/6/2021					
Arsenic	25.3511	1.0	0.12	25.0000		101	80 - 120			
Lead	23.9940	1.0	0.18	25.0000		96.0	80 - 120			
Matrix Spike (B1E0041-MS1)			**Source: 2101019-01**		Prepared: 5/5/2021 Analyzed: 5/6/2021					
Arsenic	31.0051	1.0	0.12	25.0000	5.42013	102	55 - 117			
Lead	58.0278	1.0	0.18	25.0000	32.4483	102	26 - 161			
Matrix Spike Dup (B1E0041-MSD1)			**Source: 2101019-01**		Prepared: 5/5/2021 Analyzed: 5/6/2021					
Arsenic	30.9397	1.0	0.12	25.0000	5.42013	102	55 - 117	0.211	20	
Lead	58.9085	1.0	0.18	25.0000	32.4483	106	26 - 161	1.51	20	

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S										
Blank (B1E0053-BLK1)							Prepared: 5/5/2021 Analyzed: 5/6/2021			
4,4′-DDD	ND	2.0	0.08							
4,4′-DDD [2C]	ND	2.0	0.08							
4,4′-DDE	ND	2.0	0.09							
4,4′-DDE [2C]	ND	2.0	0.09							
4,4′-DDT	ND	2.0	0.10							
4,4′-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.09							
Aldrin [2C]	ND	1.0	0.09							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.10							
alpha-Chlordane [2C]	ND	1.0	0.10							
beta-BHC	ND	1.0	0.15							
beta-BHC [2C]	ND	1.0	0.15							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.11							
delta-BHC [2C]	ND	1.0	0.11							
Dieldrin	ND	2.0	0.09							
Dieldrin [2C]	ND	2.0	0.09							
Endosulfan I	ND	1.0	0.09							
Endosulfan I [2C]	ND	1.0	0.09							
Endosulfan II	ND	2.0	0.09							
Endosulfan II [2C]	ND	2.0	0.09							
Endosulfan sulfate	ND	2.0	0.11							
Endosulfan Sulfate [2C]	ND	2.0	0.11							
Endrin	ND	2.0	0.07							
Endrin [2C]	ND	2.0	0.07							
Endrin aldehyde	ND	2.0	0.18							
Endrin aldehyde [2C]	ND	2.0	0.18							
Endrin ketone	ND	2.0	0.06							
Endrin ketone [2C]	ND	2.0	0.06							
gamma-BHC	ND	1.0	0.12							
gamma-BHC [2C]	ND	1.0	0.12							
gamma-Chlordane	ND	1.0	0.11							
gamma-Chlordane [2C]	ND	1.0	0.11							
Heptachlor	ND	1.0	0.10							
Heptachlor [2C]	ND	1.0	0.10							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)										
Blank (B1E0053-BLK1) - Continued					Prepared: 5/5/2021 Analyzed: 5/6/2021					
Methoxychlor	ND	5.0	0.14							
Methoxychlor [2C]	ND	5.0	0.14							
Toxaphene	ND	50	3.6							
Toxaphene [2C]	ND	50	3.6							
Surrogate: Decachlorobiphenyl	*10.41*			*16.6667*		*62.4*	*9 - 80*			
Surrogate: Decachlorobiphenyl [	*12.73*			*16.6667*		*76.4*	*5 - 74*			S12
Surrogate: Tetrachloro-m-xylene	*10.48*			*16.6667*		*62.9*	*13 - 77*			
Surrogate: Tetrachloro-m-xylene	*12.73*			*16.6667*		*76.4*	*14 - 79*			
Blank (B1E0053-BLK2)					Prepared: 5/5/2021 Analyzed: 5/11/2021					
4,4′-DDD	ND	2.0	0.08							
4,4′-DDD [2C]	ND	2.0	0.08							
4,4′-DDE	ND	2.0	0.09							
4,4′-DDE [2C]	ND	2.0	0.09							
4,4′-DDT	ND	2.0	0.10							
4,4′-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.09							
Aldrin [2C]	ND	1.0	0.09							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.10							
alpha-Chlordane [2C]	ND	1.0	0.10							
beta-BHC	ND	1.0	0.15							
beta-BHC [2C]	ND	1.0	0.15							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.11							
delta-BHC [2C]	ND	1.0	0.11							
Dieldrin	ND	2.0	0.09							
Dieldrin [2C]	ND	2.0	0.09							
Endosulfan I	ND	1.0	0.09							
Endosulfan I [2C]	ND	1.0	0.09							
Endosulfan II	ND	2.0	0.09							
Endosulfan II [2C]	ND	2.0	0.09							
Endosulfan sulfate	ND	2.0	0.11							
Endosulfan Sulfate [2C]	ND	2.0	0.11							
Endrin	ND	2.0	0.07							
Endrin [2C]	ND	2.0	0.07							
Endrin aldehyde	ND	2.0	0.18							
Endrin aldehyde [2C]	ND	2.0	0.18							

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)										
Blank (B1E0053-BLK2) - Continued						Prepared: 5/5/2021 Analyzed: 5/11/2021				
Endrin ketone	ND	2.0	0.06							
Endrin ketone [2C]	ND	2.0	0.06							
gamma-BHC	ND	1.0	0.12							
gamma-BHC [2C]	ND	1.0	0.12							
gamma-Chlordane	ND	1.0	0.11							
gamma-Chlordane [2C]	ND	1.0	0.11							
Heptachlor	ND	1.0	0.10							
Heptachlor [2C]	ND	1.0	0.10							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.14							
Methoxychlor [2C]	ND	5.0	0.14							
Toxaphene	ND	50	3.6							
Toxaphene [2C]	ND	50	3.6							
Surrogate: Decachlorobiphenyl	*8.725*			*16.6667*		*52.4*	*9 - 80*			
Surrogate: Decachlorobiphenyl [	*9.363*			*16.6667*		*56.2*	*5 - 74*			
Surrogate: Tetrachloro-m-xylene	*7.828*			*16.6667*		*47.0*	*13 - 77*			
Surrogate: Tetrachloro-m-xylene	*8.598*			*16.6667*		*51.6*	*14 - 79*			
LCS (B1E0053-BS1)						Prepared: 5/5/2021 Analyzed: 5/6/2021				
4,4′-DDD	6.86700	2.0	0.08	16.6667		41.2	33 - 88			
4,4′-DDD [2C]	7.77250	2.0	0.08	16.6667		46.6	29 - 100			
4,4′-DDE	7.13217	2.0	0.09	16.6667		42.8	35 - 87			
4,4′-DDE [2C]	8.27983	2.0	0.09	16.6667		49.7	38 - 91			
4,4′-DDT	7.41017	2.0	0.10	16.6667		44.5	41 - 94			
4,4′-DDT [2C]	8.64233	2.0	0.10	16.6667		51.9	31 - 110			
Aldrin	6.71767	1.0	0.09	16.6667		40.3	35 - 85			
Aldrin [2C]	7.60317	1.0	0.09	16.6667		45.6	38 - 92			
alpha-BHC	6.93467	1.0	0.11	16.6667		41.6	37 - 86			
alpha-BHC [2C]	7.15750	1.0	0.11	16.6667		42.9	39 - 92			
alpha-Chlordane	7.03267	1.0	0.10	16.6667		42.2	36 - 97			
alpha-Chlordane [2C]	8.73267	1.0	0.10	16.6667		52.4	44 - 102			
beta-BHC	6.94283	1.0	0.15	16.6667		41.7	38 - 75			
beta-BHC [2C]	7.66233	1.0	0.15	16.6667		46.0	39 - 85			
delta-BHC	8.46683	1.0	0.11	16.6667		50.8	35 - 90			
delta-BHC [2C]	8.37583	1.0	0.11	16.6667		50.3	37 - 98			
Dieldrin	7.22633	2.0	0.09	16.6667		43.4	37 - 87			
Dieldrin [2C]	8.01950	2.0	0.09	16.6667		48.1	40 - 91			
Endosulfan I	6.15550	1.0	0.09	16.6667		36.9	32 - 84			
Endosulfan I [2C]	6.84133	1.0	0.09	16.6667		41.0	33 - 94			

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)										
LCS (B1E0053-BS1) - Continued					Prepared: 5/5/2021 Analyzed: 5/6/2021					
Endosulfan II	7.48083	2.0	0.09	16.6667		44.9	40 - 90			
Endosulfan II [2C]	8.50167	2.0	0.09	16.6667		51.0	33 - 109			
Endosulfan sulfate	7.07250	2.0	0.11	16.6667		42.4	37 - 82			
Endosulfan Sulfate [2C]	8.23317	2.0	0.11	16.6667		49.4	29 - 95			
Endrin	8.71083	2.0	0.07	16.6667		52.3	38 - 95			
Endrin [2C]	9.96800	2.0	0.07	16.6667		59.8	36 - 106			
Endrin aldehyde	7.38333	2.0	0.18	16.6667		44.3	44 - 88			
Endrin aldehyde [2C]	7.42300	2.0	0.18	16.6667		44.5	33 - 107			
Endrin ketone	7.21300	2.0	0.06	16.6667		43.3	43 - 84			
Endrin ketone [2C]	7.96433	2.0	0.06	16.6667		47.8	30 - 97			
gamma-BHC	7.10883	1.0	0.12	16.6667		42.7	40 - 88			
gamma-BHC [2C]	7.70417	1.0	0.12	16.6667		46.2	41 - 95			
gamma-Chlordane	7.10233	1.0	0.11	16.6667		42.6	40 - 86			
gamma-Chlordane [2C]	8.09400	1.0	0.11	16.6667		48.6	41 - 96			
Heptachlor	10.6003	1.0	0.10	16.6667		63.6	37 - 93			
Heptachlor [2C]	9.66467	1.0	0.10	16.6667		58.0	36 - 99			
Heptachlor epoxide	6.55533	1.0	0.09	16.6667		39.3	40 - 82			L4
Heptachlor epoxide [2C]	7.56533	1.0	0.09	16.6667		45.4	42 - 88			
Methoxychlor	8.20567	5.0	0.14	16.6667		49.2	43 - 96			
Methoxychlor [2C]	9.33950	5.0	0.14	16.6667		56.0	32 - 108			
Surrogate: Decachlorobiphenyl	*6.890*			*16.6667*		*41.3*	*9 - 80*			
Surrogate: Decachlorobiphenyl [	*8.076*			*16.6667*		*48.5*	*5 - 74*			
Surrogate: Tetrachloro-m-xylene	*6.405*			*16.6667*		*38.4*	*13 - 77*			
Surrogate: Tetrachloro-m-xylene	*8.007*			*16.6667*		*48.0*	*14 - 79*			
LCS (B1E0053-BS2)					Prepared: 5/5/2021 Analyzed: 5/11/2021					
4,4′-DDD	6.30017	2.0	0.08	16.6667		37.8	33 - 88			
4,4′-DDD [2C]	6.75917	2.0	0.08	16.6667		40.6	29 - 100			
4,4′-DDE	6.80800	2.0	0.09	16.6667		40.8	35 - 87			
4,4′-DDE [2C]	7.20083	2.0	0.09	16.6667		43.2	38 - 91			
4,4′-DDT	7.21883	2.0	0.10	16.6667		43.3	41 - 94			
4,4′-DDT [2C]	7.73667	2.0	0.10	16.6667		46.4	31 - 110			
Aldrin	6.38700	1.0	0.09	16.6667		38.3	35 - 85			
Aldrin [2C]	6.80183	1.0	0.09	16.6667		40.8	38 - 92			
alpha-BHC	6.57367	1.0	0.11	16.6667		39.4	37 - 86			
alpha-BHC [2C]	6.52667	1.0	0.11	16.6667		39.2	39 - 92			
alpha-Chlordane	6.77017	1.0	0.10	16.6667		40.6	36 - 97			
alpha-Chlordane [2C]	7.77383	1.0	0.10	16.6667		46.6	44 - 102			
beta-BHC	6.60950	1.0	0.15	16.6667		39.7	38 - 75			
beta-BHC [2C]	6.87800	1.0	0.15	16.6667		41.3	39 - 85			

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)										
LCS (B1E0053-BS2) - Continued					Prepared: 5/5/2021 Analyzed: 5/11/2021					
delta-BHC	7.82200	1.0	0.11	16.6667		46.9	35 - 90			
delta-BHC [2C]	7.64000	1.0	0.11	16.6667		45.8	37 - 98			
Dieldrin	6.88583	2.0	0.09	16.6667		41.3	37 - 87			
Dieldrin [2C]	7.12733	2.0	0.09	16.6667		42.8	40 - 91			
Endosulfan I	5.90167	1.0	0.09	16.6667		35.4	32 - 84			
Endosulfan I [2C]	6.14083	1.0	0.09	16.6667		36.8	33 - 94			
Endosulfan II	7.08950	2.0	0.09	16.6667		42.5	40 - 90			
Endosulfan II [2C]	7.52917	2.0	0.09	16.6667		45.2	33 - 109			
Endosulfan sulfate	6.90017	2.0	0.11	16.6667		41.4	37 - 82			
Endosulfan Sulfate [2C]	7.30617	2.0	0.11	16.6667		43.8	29 - 95			
Endrin	8.29850	2.0	0.07	16.6667		49.8	38 - 95			
Endrin [2C]	8.82833	2.0	0.07	16.6667		53.0	36 - 106			
Endrin aldehyde	7.33583	2.0	0.18	16.6667		44.0	44 - 88			
Endrin aldehyde [2C]	6.84950	2.0	0.18	16.6667		41.1	33 - 107			
Endrin ketone	7.17533	2.0	0.06	16.6667		43.1	43 - 84			
Endrin ketone [2C]	7.15517	2.0	0.06	16.6667		42.9	30 - 97			
gamma-BHC	6.72483	1.0	0.12	16.6667		40.3	40 - 88			
gamma-BHC [2C]	6.92767	1.0	0.12	16.6667		41.6	41 - 95			
gamma-Chlordane	8.01783	1.0	0.11	16.6667		48.1	40 - 86			
gamma-Chlordane [2C]	7.22850	1.0	0.11	16.6667		43.4	41 - 96			
Heptachlor	12.1410	1.0	0.10	16.6667		72.8	37 - 93			
Heptachlor [2C]	9.01000	1.0	0.10	16.6667		54.1	36 - 99			
Heptachlor epoxide	6.19200	1.0	0.09	16.6667		37.2	40 - 82			L4
Heptachlor epoxide [2C]	7.00783	1.0	0.09	16.6667		42.0	42 - 88			
Methoxychlor	8.23550	5.0	0.14	16.6667		49.4	43 - 96			
Methoxychlor [2C]	8.55500	5.0	0.14	16.6667		51.3	32 - 108			
Surrogate: Decachlorobiphenyl	*6.802*			*16.6667*		*40.8*	*9 - 80*			
Surrogate: Decachlorobiphenyl [	*7.082*			*16.6667*		*42.5*	*5 - 74*			
Surrogate: Tetrachloro-m-xylene	*5.943*			*16.6667*		*35.7*	*13 - 77*			
Surrogate: Tetrachloro-m-xylene	*6.695*			*16.6667*		*40.2*	*14 - 79*			
Matrix Spike (B1E0053-MS1)			**Source: 2101019-01**		Prepared: 5/5/2021 Analyzed: 5/6/2021					
4,4′-DDD	6.33300	2.0	0.08	16.6667	ND	38.0	12 - 92			
4,4′-DDD [2C]	6.44017	2.0	0.08	16.6667	ND	38.6	13 - 93			
4,4′-DDE	20.8135	2.0	0.09	16.6667	9.02000	70.8	18 - 92			
4,4′-DDE [2C]	24.2152	2.0	0.09	16.6667	10.8300	80.3	12 - 97			
4,4′-DDT	11.9892	2.0	0.10	16.6667	3.61083	50.3	21 - 90			
4,4′-DDT [2C]	14.4305	2.0	0.10	16.6667	4.25433	61.1	20 - 99			
Aldrin	6.11017	1.0	0.09	16.6667	ND	36.7	19 - 93			
Aldrin [2C]	7.00733	1.0	0.09	16.6667	ND	42.0	19 - 97			

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike (B1E0053-MS1) - Continued			**Source: 2101019-01**			Prepared: 5/5/2021 Analyzed: 5/6/2021				
alpha-BHC	6.40617	1.0	0.11	16.6667	ND	38.4	22 - 96			
alpha-BHC [2C]	6.91917	1.0	0.11	16.6667	ND	41.5	18 - 108			
alpha-Chlordane	6.70183	1.0	0.10	16.6667	ND	40.2	32 - 99			
alpha-Chlordane [2C]	8.34267	1.0	0.10	16.6667	ND	50.1	30 - 114			
beta-BHC	6.48350	1.0	0.15	16.6667	ND	38.9	9 - 95			
beta-BHC [2C]	7.27900	1.0	0.15	16.6667	ND	43.7	14 - 99			
delta-BHC	5.72917	1.0	0.11	16.6667	ND	34.4	16 - 100			
delta-BHC [2C]	8.16167	1.0	0.11	16.6667	ND	49.0	11 - 112			
Dieldrin	6.98417	2.0	0.09	16.6667	0.179833	40.8	24 - 92			
Dieldrin [2C]	7.72000	2.0	0.09	16.6667	0.180333	45.2	21 - 98			
Endosulfan I	5.77417	1.0	0.09	16.6667	ND	34.6	21 - 89			
Endosulfan I [2C]	6.29650	1.0	0.09	16.6667	ND	37.8	21 - 103			
Endosulfan II	6.91950	2.0	0.09	16.6667	ND	41.5	17 - 97			
Endosulfan II [2C]	7.88383	2.0	0.09	16.6667	ND	47.3	30 - 95			
Endosulfan sulfate	6.54250	2.0	0.11	16.6667	ND	39.3	15 - 88			
Endosulfan Sulfate [2C]	7.39133	2.0	0.11	16.6667	ND	44.3	15 - 93			
Endrin	8.11533	2.0	0.07	16.6667	ND	48.7	21 - 99			
Endrin [2C]	9.00433	2.0	0.07	16.6667	ND	54.0	3 - 115			
Endrin aldehyde	7.28033	2.0	0.18	16.6667	ND	43.7	0 - 115			
Endrin aldehyde [2C]	6.81750	2.0	0.18	16.6667	ND	40.9	15 - 106			
Endrin ketone	6.58300	2.0	0.06	16.6667	ND	39.5	17 - 91			
Endrin ketone [2C]	7.83617	2.0	0.06	16.6667	ND	47.0	16 - 92			
gamma-BHC	6.83133	1.0	0.12	16.6667	ND	41.0	22 - 100			
gamma-BHC [2C]	7.35700	1.0	0.12	16.6667	ND	44.1	22 - 106			
gamma-Chlordane	6.55917	1.0	0.11	16.6667	ND	39.4	29 - 101			
gamma-Chlordane [2C]	7.43600	1.0	0.11	16.6667	ND	44.6	24 - 104			
Heptachlor	10.3452	1.0	0.10	16.6667	ND	62.1	18 - 98			
Heptachlor [2C]	9.14133	1.0	0.10	16.6667	ND	54.8	20 - 104			
Heptachlor epoxide	6.17233	1.0	0.09	16.6667	ND	37.0	17 - 92			
Heptachlor epoxide [2C]	7.15917	1.0	0.09	16.6667	ND	43.0	19 - 100			
Methoxychlor	7.26433	5.0	0.14	16.6667	ND	43.6	0 - 117			
Methoxychlor [2C]	9.56283	5.0	0.14	16.6667	ND	57.4	28 - 104			
Surrogate: Decachlorobiphenyl	*5.976*			*16.6667*		*35.9*	*9 - 80*			
Surrogate: Decachlorobiphenyl [	*7.426*			*16.6667*		*44.6*	*5 - 74*			
Surrogate: Tetrachloro-m-xylene	*6.002*			*16.6667*		*36.0*	*13 - 77*			
Surrogate: Tetrachloro-m-xylene	*7.536*			*16.6667*		*45.2*	*14 - 79*			
Matrix Spike Dup (B1E0053-MSD1)			**Source: 2101019-01**			Prepared: 5/5/2021 Analyzed: 5/6/2021				
4,4′-DDD	6.67483	2.0	0.08	16.6667	ND	40.0	12 - 92	5.26	20	
4,4′-DDD [2C]	7.14933	2.0	0.08	16.6667	ND	42.9	13 - 93	10.4	20	

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Project Number : 185804987, Warmington
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Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B1E0053-MSD1) - Continued			**Source: 2101019-01**		Prepared: 5/5/2021 Analyzed: 5/6/2021					
4,4′-DDE	19.8090	2.0	0.09	16.6667	9.02000	64.7	18 - 92	4.95	20	
4,4′-DDE [2C]	23.2688	2.0	0.09	16.6667	10.8300	74.6	12 - 97	3.99	20	
4,4′-DDT	11.8810	2.0	0.10	16.6667	3.61083	49.6	21 - 90	0.906	20	
4,4′-DDT [2C]	14.1458	2.0	0.10	16.6667	4.25433	59.3	20 - 99	1.99	20	
Aldrin	6.46600	1.0	0.09	16.6667	ND	38.8	19 - 93	5.66	20	
Aldrin [2C]	7.37750	1.0	0.09	16.6667	ND	44.3	19 - 97	5.15	20	
alpha-BHC	6.92333	1.0	0.11	16.6667	ND	41.5	22 - 96	7.76	20	
alpha-BHC [2C]	7.55967	1.0	0.11	16.6667	ND	45.4	18 - 108	8.85	20	
alpha-Chlordane	7.06000	1.0	0.10	16.6667	ND	42.4	32 - 99	5.21	20	
alpha-Chlordane [2C]	8.79150	1.0	0.10	16.6667	ND	52.7	30 - 114	5.24	20	
beta-BHC	7.06650	1.0	0.15	16.6667	ND	42.4	9 - 95	8.61	20	
beta-BHC [2C]	7.91567	1.0	0.15	16.6667	ND	47.5	14 - 99	8.38	20	
delta-BHC	6.76950	1.0	0.11	16.6667	ND	40.6	16 - 100	16.6	20	
delta-BHC [2C]	8.87367	1.0	0.11	16.6667	ND	53.2	11 - 112	8.36	20	
Dieldrin	7.26600	2.0	0.09	16.6667	0.179833	42.5	24 - 92	3.96	20	
Dieldrin [2C]	8.09250	2.0	0.09	16.6667	0.180333	47.5	21 - 98	4.71	20	
Endosulfan I	6.12950	1.0	0.09	16.6667	ND	36.8	21 - 89	5.97	20	
Endosulfan I [2C]	6.69650	1.0	0.09	16.6667	ND	40.2	21 - 103	6.16	20	
Endosulfan II	7.31617	2.0	0.09	16.6667	ND	43.9	17 - 97	5.57	20	
Endosulfan II [2C]	8.25333	2.0	0.09	16.6667	ND	49.5	30 - 95	4.58	20	
Endosulfan sulfate	6.95617	2.0	0.11	16.6667	ND	41.7	15 - 88	6.13	20	
Endosulfan Sulfate [2C]	8.01600	2.0	0.11	16.6667	ND	48.1	15 - 93	8.11	20	
Endrin	8.64133	2.0	0.07	16.6667	ND	51.8	21 - 99	6.28	20	
Endrin [2C]	9.60983	2.0	0.07	16.6667	ND	57.7	3 - 115	6.51	20	
Endrin aldehyde	7.61517	2.0	0.18	16.6667	ND	45.7	0 - 115	4.50	20	
Endrin aldehyde [2C]	7.07600	2.0	0.18	16.6667	ND	42.5	15 - 106	3.72	20	
Endrin ketone	6.97883	2.0	0.06	16.6667	ND	41.9	17 - 91	5.84	20	
Endrin ketone [2C]	8.14717	2.0	0.06	16.6667	ND	48.9	16 - 92	3.89	20	
gamma-BHC	7.38167	1.0	0.12	16.6667	ND	44.3	22 - 100	7.74	20	
gamma-BHC [2C]	7.96750	1.0	0.12	16.6667	ND	47.8	22 - 106	7.97	20	
gamma-Chlordane	6.95033	1.0	0.11	16.6667	ND	41.7	29 - 101	5.79	20	
gamma-Chlordane [2C]	7.88683	1.0	0.11	16.6667	ND	47.3	24 - 104	5.88	20	
Heptachlor	9.23583	1.0	0.10	16.6667	ND	55.4	18 - 98	11.3	20	
Heptachlor [2C]	8.90750	1.0	0.10	16.6667	ND	53.4	20 - 104	2.59	20	
Heptachlor epoxide	6.44017	1.0	0.09	16.6667	ND	38.6	17 - 92	4.25	20	
Heptachlor epoxide [2C]	7.65300	1.0	0.09	16.6667	ND	45.9	19 - 100	6.67	20	
Methoxychlor	7.44800	5.0	0.14	16.6667	ND	44.7	0 - 117	2.50	20	
Methoxychlor [2C]	9.70300	5.0	0.14	16.6667	ND	58.2	28 - 104	1.46	20	
Surrogate: Decachlorobiphenyl	*6.618*			*16.6667*		*39.7*	*9 - 80*			
Surrogate: Decachlorobiphenyl [	*8.305*			*16.6667*		*49.8*	*5 - 74*			

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Organochlorine Pesticides by EPA 8081A - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0053 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B1E0053-MSD1) - Continued			**Source: 2101019-01**		Prepared: 5/5/2021 Analyzed: 5/6/2021				
Surrogate: Tetrachloro-m-xylene	*6.923*		*16.6667*		*41.5*	*13 - 77*			
Surrogate: Tetrachloro-m-xylene	*8.731*		*16.6667*		*52.4*	*14 - 79*			

Certificate of Analysis

Stantec	Project Number : 185804987, Warmington
735 E. Carnegie Drive, Suite 280	Report To : Alicia Jansen
San Bernardino , CA 92408	Reported : 05/11/2021

Notes and Definitions

S12	Surrogate recovery outside in-house established limit but within method default criteria.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

2101020

Stantec

CHAIN OF CUSTODY

Laboratory Project Number:

Page 1 of 2

Client Name/Address:	Project Manager:
Stantec Consulting Services Inc. **735 E. Carnegie Drive, Suite 280** **San Bernardino, CA 92408** **909-335-6116**	**Alicia Jansen** E-Mail Address: **debbie.hernandez@stantec.com** **alicia.jansen@stantec.com** Sampler Name: **Debbie Hernandez** Stantec Project Number: **185804987** Project: **Warmington**
Laboratory:	

	Sample Description/Identification	Sample Matrix	Preservative (see below)	# of Cont.	Sample Date	Sample Time	Filtered Sample	OCPs (8081)	Arsenic/Lead (6010B)	Hold								Special Instructions
01	S-1-1	Soil	Ice	1	05/04/21	0815		x	x									
02	S-1-2	Soil	Ice	1	05/04/21	0820				x								
03	S-1-3	Soil	Ice	1	05/04/21	0825				x								
04	S-2-1	Soil	Ice	1	05/04/21	0840		x	x									
05	S-2-2	Soil	Ice	1	05/04/21	0845				x								
06	S-2-3	Soil	Ice	1	05/04/21	0850				x								
07	S-3-1	Soil	Ice	1	05/04/21	1025		x	x									
9	S-3-2	Soil	Ice	1	05/04/21	1030				x								
9	S-3-3	Soil	Ice	1	05/04/21	1035				x								
10	S-4-1	Soil	Ice	1	05/04/21	0945		x	x									
11	S-4-2	Soil	Ice	1	05/04/21	0950				x								
12	S-4-3	Soil	Ice	1	05/04/21	0955				x								
13	S-5-1	Soil	Ice	1	05/04/21	1045		x	x									
14	S-5-2	Soil	Ice	1	05/04/21	1050				x								
15	S-5-3	Soil	Ice	1	05/04/21	1055				x								

Analysis Required

Turn Around Time:
- Normal: X
- 72 Hour:
- 48 Hour
- 24 Hour
- Same Day:
- Other:

Sample Temp °C: 3.2 ice
SCIRT11

Sample Preservative: 1=ICE - 2=HCl - 3=H_2SO_4 - 4=HNO_3 - 5=NaOH - 6=Other:

Special Instructions:

Relinquished By:	Date	Time	Received By + Company Name:	Date	Time
[signature]	5/4/21		Max Rothacker	5/4/21	1500
Relinquished By + Company Name: Max Rothacker	Date 5/4/21	Time 1540	Received By + Company Name: [signature]	Date 5-4-21	Time 15:4
Relinquished By + Company Name:	Date	Time	Received By + Company Name:	Date	Time

Stantec

2101020

CHAIN OF CUSTODY

Laboratory Project Number: _____

Page 2 of 2

Client Name/Address:	Project Manager:
Stantec Consulting Services Inc. **735 E. Carnegie Drive, Suite 280** **San Bernardino, CA 92408** **909-335-6116**	**Alicia Jansen**
Laboratory:	E-Mail Address: **debbie.hernandez@stantec.com** **alicia.jansen@stantec.com**
	Sampler Name: **Debbie Hernandez**
	Stantec Project Number: **185804987**
	Project: **Warmington**

Turn Around Time: Normal X; 72 Hour: ; 48 Hour ; 24 Hour ; Same Day: ; Other:

Sample Temp °C: 3.2 ice SCERT11

	Sample Description/Identification	Sample Matrix	Preservative (see below)	# of Cont.	Sample Date	Sample Time	Filtered Sample	OCPs (8081)	Arsenic/Lead (6010B)	Hold	Special Instructions
16	S-6-1	Soil	Ice	1	05/04/21	1105		x	x		
17	S-6-2	Soil	Ice	1	05/04/21	1110				x	
18	S-6-3	Soil	Ice	1	05/04/21	1115				x	
19	S-7-1	Soil	Ice	1	05/04/21	0900			x		
20	S-7-2	Soil	Ice	1	05/04/21	0905				x	
21	S-7-3	Soil	Ice	1	05/04/21	0910				x	
22	S-8-1	Soil	Ice	1	05/04/21	0920			x		
23	S-8-2	Soil	Ice	1	05/04/21	0925				x	
24	S-8-3	Soil	Ice	1	05/04/21	0935				x	
25	S-9-1	Soil	Ice	1	05/04/21	1120			x		
26	S-9-2	Soil	Ice	1	05/04/21	1125				x	
27	S-9-3	Soil	Ice	1	05/04/21	1130				x	

Sample Preservative: 1=ICE - 2=HCl - 3=H_2SO_4 - 4=HNO_3 - 5=NaOH - 6=Other: _____

Special Instructions:

Relinquished By:	Date	Time	Received By + Company Name:	Date	Time
	5/4/21		Max Rothrock	5/4/21	15:00
Relinquished By + Company Name: Max Rothrock	Date 5/4/21	Time 15 40	Received By + Company Name:	Date 5-4-21	Time 15:40
Relinquished By + Company Name:	Date	Time	Received By + Company Name:	Date	Time