

May 21, 2021

Project No. 3-421-0267

Mr. Keith Geiger  
**Brookhill Corp.**  
2716 Ocean Park Boulevard, Suite 1055  
Santa Monica, CA 90405

Email: [keith@brookhillcorp.com](mailto:keith@brookhillcorp.com)

**SUBJECT: LIMITED SOIL ASSESSMENT**  
PROPOSED MULTI-FAMILY DEVELOPMENT  
SWC OF EVANS ROAD & EAST RIDER STREET  
PERRIS, CALIFORNIA

Dear Mr. Geiger:

SALEM Engineering Group, Inc. (SALEM) has prepared this memorandum to summarize the results of a Limited Soil Assessment (LSA) at the Proposed Multi-Family Development site located on the southwest corner of Evans Road and Rider Street in Perris, California (subject property). Mr. Keith Geiger of Brookhill Corp. requested that SALEM perform the LSA to evaluate the Recognized Environmental Condition (REC) identified in SALEM's Phase I Environmental Site Assessment (ESA) report dated, April 22, 2021. The subject property comprises an approximately 16-acre irregular-shaped parcel (Riverside County Assessor's Parcel Number [APN] 300-090-004).

SALEM's research indicated that the subject property was utilized for agriculture, primarily for the cultivation of row crops from at least 1938 until approximately 1997. No structures have historically been located on the subject property. It is not known if environmentally-persistent pesticides or herbicides were historically applied to the row crops grown on the subject property. Therefore, in order to verify the concentrations of environmentally persistent herbicides and pesticides in the subject property's near-surface soils, SALEM recommended conducting an LSA.

On May 4, 2021, SALEM personnel collected six four-part composite soil samples (SS-1A through SS-6A) and one two-part composite soil sample (SS-7A), and seven discrete soil samples (SS-1B through SS-7B) from depths of approximately 6 inches below ground surface (bgs). Each sub-set of the four-part and two-part soil samples was thoroughly mixed to create a composite sample, placed in unused laboratory-supplied clean sample jars, sealed, labeled, and placed in a plastic bag. The discrete samples were collected from each location and placed directly into laboratory-supplied sample jars, sealed, labeled, recorded on a chain-of-custody document, and placed in a plastic bag. Each sample was recorded on a chain-of-custody document, stored in an ice-chilled cooler, and submitted to Sierra Analytical Laboratory of Laguna Hills, California. The composite soil samples were analyzed for organochlorine pesticides (OCPs) and the discrete soil samples were analyzed for arsenic using EPA Methods 8081A and 6010B, respectively. Approximate soil sample locations are presented as Figure 2.

No pesticides or arsenic were detected above laboratory detection limits in any of the soil samples. A tabular summary of laboratory analytic data is included in Appendix A. A copy of the laboratory analytical report and chain-of-custody documentation is included in Appendix B.

Data suggests that pesticides and arsenic are not constituents of concern in the areas investigated. Based on the results of the soil sampling program, SALEM believes that existing site conditions do not represent an undue risk to human health or the environment and no additional assessment is recommended.

This LSA Report has been prepared for the exclusive use of **Brookhill Corp.**, and its subsidiaries and affiliates. Unauthorized use of or reliance on the information contained in this report, unless given express written consent by SALEM and **Brookhill Corp.**, is strictly prohibited. The environmental services provided by SALEM were performed in accordance with generally accepted practice of professionals performing comparable work in California at the time of the field work.

If you have any questions, or if we can be of further assistance, please do not hesitate to contact our office at (909) 970-6455.

Respectfully submitted,

**SALEM Engineering Group, Inc.**



Reily Rivera  
Environmental Project Manager



Shannon Lodge, PG, QSD  
Senior Project Manager

**Attachments**

Figures

Appendix A (Laboratory Results Summary Tables)

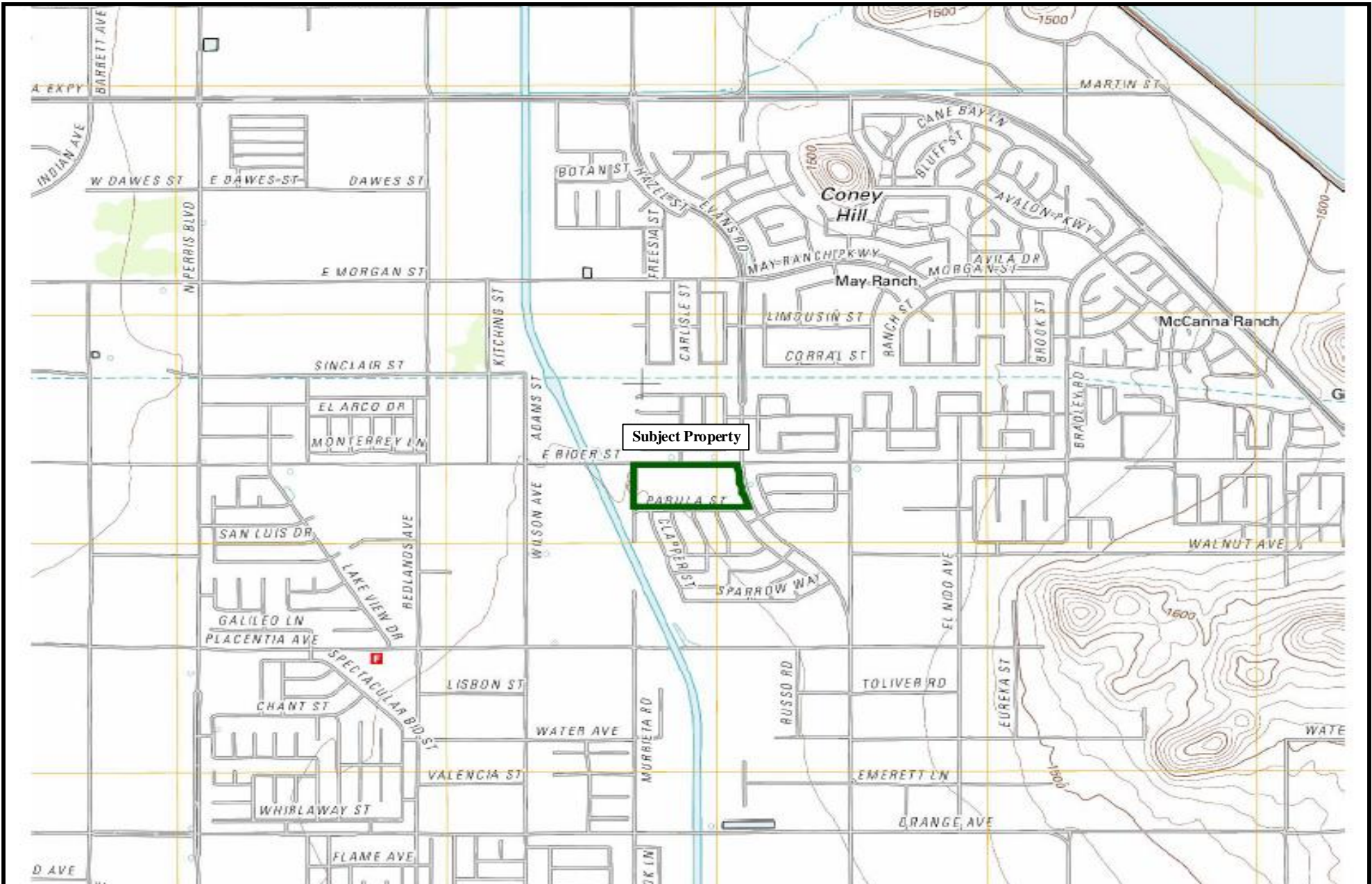
Appendix B (Laboratory Report)



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# Figures

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<b>SITE LOCATION</b>  <b>PROPOSED MULTI-FAMILY DEVELOPMENT</b> <b>SWC OF EVANS ROAD &amp; EAST RIDER STREET</b> <b>PERRIS, CALIFORNIA</b>	SCALE: NTS	DATE: May 2021		
	DRAWN BY: BR	APPROVED BY: JR		
	PROJECT NO. 3-421-0267	FIGURE NO. 1		





**LEGEND**

- ◆ Approximate Composite Sample Locations
- ◆ Approximate Discrete Sample Locations

**SITE MAP WITH SOIL SAMPLE LOCATIONS**

**PROPOSED MULTI-FAMILY DEVELOPMENT  
SWC OF EVANS ROAD & EAST RIDER STREET  
PERRIS, CALIFORNIA**

SCALE:  
NTS

DATE:  
May 2021

DRAWN BY:  
BR

APPROVED BY:  
JR

PROJECT NO.  
3-421-0267

FIGURE NO.  
2



# A



**TABLE 1**  
**SOIL DATA, ORGANOCHLORINE PESTICIDES**  
 Proposed Multi-Family Development  
 SWC of Evans Road and East Rider Street  
 Perris, California

Date Sampled	Sample Collection Point	Sample Depth (feet bgs)	Pesticides* (mg/kg)
5/4/21	SS-1A	0.5	ND
5/4/21	SS-2A	0.5	ND
5/4/21	SS-3A	0.5	ND
5/4/21	SS-4A	0.5	ND
5/4/21	SS-5A	0.5	ND
5/4/21	SS-6A	0.5	ND
5/4/21	SS-7A	0.5	ND
RWQCB-SF Tier 1 ESL:			Varies

mg/kg = milligrams per kilogram  
 bgs = below ground surface  
 ND = not detected above analytical method detection limit shown in parenthesis  
 \* = all other organochlorine pesticides  
 RWQCB-SF = San Francisco Regional Water Quality Control Board  
 ESL = Environmental Screening Level

**TABLE 2**  
**SOIL DATA, ARSENIC**  
 Proposed Multi-Family Development  
 SWC of Evans Road and East Rider Street  
 Perris, California

Date Sampled	Sample Collection Point	Sample Depth (feet bgs)	Pesticides* (mg/kg)
5/4/21	SS-1B	0.5	ND
5/4/21	SS-2B	0.5	ND
5/4/21	SS-3B	0.5	ND
5/4/21	SS-4B	0.5	ND
5/4/21	SS-5B	0.5	ND
5/4/21	SS-6B	0.5	ND
5/4/21	SS-7B	0.5	ND
RWQCB-SF Tier 1 ESL:			0.067

mg/kg = milligrams per kilogram  
 bgs = below ground surface  
 ND = not detected above analytical method detection limit shown in parenthesis  
 RWQCB-SF = San Francisco Regional Water Quality Control Board  
 ESL = Environmental Screening Level



APPENDIX

# B





17 May 2021

Jim Robert  
SALEM Engineering Group  
8711 Monroe Ct # A  
Rancho Cucamonga, CA 91730

RE:MFD Perris

Work Order No.: 2105064

Attached are the results of the analyses for samples received by the laboratory on 05/05/21 12:13.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report.  
If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS),  
Environmental Laboratory Accreditation Program (ELAP) No. 2320.



SALEM Engineering Group  
8711 Monroe Ct # A  
Rancho Cucamonga CA, 91730

Project: MFD Perris  
Project Number: 3-421-0267  
Project Manager: Jim Robert

**Reported:**  
05/17/21 09:07

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1A	2105064-01	Soil	05/04/21 08:00	05/05/21 12:13
SS-1B	2105064-02	Soil	05/04/21 08:05	05/05/21 12:13
SS-2A	2105064-03	Soil	05/04/21 08:20	05/05/21 12:13
SS-2B	2105064-04	Soil	05/04/21 08:25	05/05/21 12:13
SS-3A	2105064-05	Soil	05/04/21 09:05	05/05/21 12:13
SS-3B	2105064-06	Soil	05/04/21 09:10	05/05/21 12:13
SS-4A	2105064-07	Soil	05/04/21 09:15	05/05/21 12:13
SS-4B	2105064-08	Soil	05/04/21 09:20	05/05/21 12:13
SS-5A	2105064-09	Soil	05/04/21 09:55	05/05/21 12:13
SS-5B	2105064-10	Soil	05/04/21 10:00	05/05/21 12:13
SS-6A	2105064-11	Soil	05/04/21 10:10	05/05/21 12:13
SS-6B	2105064-12	Soil	05/04/21 10:15	05/05/21 12:13
SS-7A	2105064-13	Soil	05/04/21 10:30	05/05/21 12:13
SS-7B	2105064-14	Soil	05/04/21 10:35	05/05/21 12:13

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



SALEM Engineering Group  
 8711 Monroe Ct # A  
 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Metals by EPA 6000/7000 Series Methods**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-1B (2105064-02) Soil Sampled: 05/04/21 08:05 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	
<b>SS-2B (2105064-04) Soil Sampled: 05/04/21 08:25 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	
<b>SS-3B (2105064-06) Soil Sampled: 05/04/21 09:10 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	
<b>SS-4B (2105064-08) Soil Sampled: 05/04/21 09:20 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	
<b>SS-5B (2105064-10) Soil Sampled: 05/04/21 10:00 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	
<b>SS-6B (2105064-12) Soil Sampled: 05/04/21 10:15 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	
<b>SS-7B (2105064-14) Soil Sampled: 05/04/21 10:35 Received: 05/05/21 12:13</b>									
Arsenic	ND	4.0	mg/kg	1	B1E0506	05/05/21	05/06/21 16:19	EPA 6010B	

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



SALEM Engineering Group  
 8711 Monroe Ct # A  
 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SS-1A (2105064-01) Soil Sampled: 05/04/21 08:00 Received: 05/05/21 12:13**

<i>Surrogate: Decachlorobiphenyl</i>		60.6 %		42-147	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		46.1 %		42-147	"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	
Endrin ketone	ND	0.0020	"	"	"	"	"	"	
Heptachlor	ND	0.0020	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

**SS-2A (2105064-03) Soil Sampled: 05/04/21 08:20 Received: 05/05/21 12:13**

<i>Surrogate: Decachlorobiphenyl</i>		67.9 %		42-147	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		57.9 %		42-147	"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	

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SALEM Engineering Group  
 8711 Monroe Ct # A  
 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**SS-2A (2105064-03) Soil Sampled: 05/04/21 08:20 Received: 05/05/21 12:13**

Endrin ketone	ND	0.0020	mg/kg	1	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
Heptachlor	ND	0.0020	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

**SS-3A (2105064-05) Soil Sampled: 05/04/21 09:05 Received: 05/05/21 12:13**

<i>Surrogate: Decachlorobiphenyl</i>		57.2 %		42-147	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		43.2 %		42-147	"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	
Endrin ketone	ND	0.0020	"	"	"	"	"	"	
Heptachlor	ND	0.0020	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

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SALEM Engineering Group  
 8711 Monroe Ct # A  
 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SS-4A (2105064-07) Soil Sampled: 05/04/21 09:15 Received: 05/05/21 12:13**

<i>Surrogate: Decachlorobiphenyl</i>		56.0 %		42-147	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		46.2 %		42-147	"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	
Endrin ketone	ND	0.0020	"	"	"	"	"	"	
Heptachlor	ND	0.0020	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

**SS-5A (2105064-09) Soil Sampled: 05/04/21 09:55 Received: 05/05/21 12:13**

<i>Surrogate: Decachlorobiphenyl</i>		80.0 %		42-147	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		73.8 %		42-147	"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	

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SALEM Engineering Group  
8711 Monroe Ct # A  
Rancho Cucamonga CA, 91730

Project: MFD Perris  
Project Number: 3-421-0267  
Project Manager: Jim Robert

Reported:  
05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

**SS-5A (2105064-09) Soil Sampled: 05/04/21 09:55 Received: 05/05/21 12:13**

Endrin ketone	ND	0.0020	mg/kg	1	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
Heptachlor	ND	0.0020	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

**SS-6A (2105064-11) Soil Sampled: 05/04/21 10:10 Received: 05/05/21 12:13**

<i>Surrogate: Decachlorobiphenyl</i>		67.0 %		42-147	B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		57.9 %		42-147	"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	
Endrin ketone	ND	0.0020	"	"	"	"	"	"	
Heptachlor	ND	0.0020	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	

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SALEM Engineering Group  
 8711 Monroe Ct # A  
 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

SS-7A (2105064-13) Soil Sampled: 05/04/21 10:30 Received: 05/05/21 12:13

Surrogate: Decachlorobiphenyl		67.9 %		42-147		B1E1402	05/14/21	05/14/21 15:09	EPA 8081A	
Surrogate: Tetrachloro-meta-xylene		64.7 %		42-147		"	"	"	"	
Aldrin	ND	0.0020	"	"	"	"	"	"	"	
HCH-alpha	ND	0.0020	"	"	"	"	"	"	"	
HCH-beta	ND	0.0040	"	"	"	"	"	"	"	
HCH-delta	ND	0.0020	"	"	"	"	"	"	"	
HCH-gamma (Lindane)	ND	0.0020	"	"	"	"	"	"	"	
Chlordane	ND	0.0040	"	"	"	"	"	"	"	
4,4'-DDD	ND	0.0030	"	"	"	"	"	"	"	
4,4'-DDE	ND	0.0020	"	"	"	"	"	"	"	
4,4'-DDT	ND	0.0030	"	"	"	"	"	"	"	
Dieldrin	ND	0.0020	"	"	"	"	"	"	"	
Endosulfan I	ND	0.0020	"	"	"	"	"	"	"	
Endosulfan II	ND	0.0040	"	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.0020	"	"	"	"	"	"	"	
Endrin	ND	0.0020	"	"	"	"	"	"	"	
Endrin aldehyde	ND	0.0020	"	"	"	"	"	"	"	
Endrin ketone	ND	0.0020	"	"	"	"	"	"	"	
Heptachlor	ND	0.0020	"	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0020	"	"	"	"	"	"	"	
Methoxychlor	ND	0.0040	"	"	"	"	"	"	"	
Toxaphene	ND	0.040	"	"	"	"	"	"	"	

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SALEM Engineering Group  
 8711 Monroe Ct # A  
 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Metals by EPA 6000/7000 Series Methods - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1E0506 - EPA 3050B**

**Blank (B1E0506-BLK1)**

Prepared: 05/05/21 Analyzed: 05/06/21

Arsenic	ND	4.0	mg/kg							
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**LCS (B1E0506-BS1)**

Prepared: 05/05/21 Analyzed: 05/06/21

Arsenic	95.3	4.0	mg/kg	100		95.3	78-122			
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**LCS Dup (B1E0506-BSD1)**

Prepared: 05/05/21 Analyzed: 05/06/21

Arsenic	97.0	4.0	mg/kg	100		97.0	78-122	1.72	20	
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**Matrix Spike (B1E0506-MS1)**

Source: 2105060-01

Prepared: 05/05/21 Analyzed: 05/06/21

Arsenic	77.9	4.0	mg/kg	99.2	ND	78.5	70-130			
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**Matrix Spike Dup (B1E0506-MSD1)**

Source: 2105060-01

Prepared: 05/05/21 Analyzed: 05/06/21

Arsenic	76.8	4.0	mg/kg	99.8	ND	77.0	70-130	1.40	20	
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SALEM Engineering Group  
8711 Monroe Ct # A  
Rancho Cucamonga CA, 91730

Project: MFD Perris  
Project Number: 3-421-0267  
Project Manager: Jim Robert

Reported:  
05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1E1402 - EPA 3550B Solid Ext**

**Blank (B1E1402-BLK1)**

Prepared & Analyzed: 05/14/21

Surrogate: Decachlorobiphenyl	0.00619		mg/kg	0.00833		74.3	42-147			
Surrogate: Tetrachloro-meta-xylene	0.00637		"	0.00833		76.5	42-147			
Aldrin	ND	0.0020	"							
HCH-alpha	ND	0.0020	"							
HCH-beta	ND	0.0040	"							
HCH-delta	ND	0.0020	"							
HCH-gamma (Lindane)	ND	0.0020	"							
Chlordane	ND	0.0040	"							
4,4'-DDD	ND	0.0030	"							
4,4'-DDE	ND	0.0020	"							
4,4'-DDT	ND	0.0030	"							
Dieldrin	ND	0.0020	"							
Endosulfan I	ND	0.0020	"							
Endosulfan II	ND	0.0040	"							
Endosulfan sulfate	ND	0.0020	"							
Endrin	ND	0.0020	"							
Endrin aldehyde	ND	0.0020	"							
Endrin ketone	ND	0.0020	"							
Heptachlor	ND	0.0020	"							
Heptachlor epoxide	ND	0.0020	"							
Methoxychlor	ND	0.0040	"							
Toxaphene	ND	0.040	"							

**LCS (B1E1402-BS1)**

Prepared & Analyzed: 05/14/21

Surrogate: Decachlorobiphenyl	0.00833		mg/kg	0.00833		100	42-147			
Surrogate: Tetrachloro-meta-xylene	0.00833		"	0.00833		100	42-147			
Aldrin	0.0148	0.0020	"	0.0167		88.5	80-120			
HCH-gamma (Lindane)	0.0160	0.0020	"	0.0167		95.8	80-120			
4,4'-DDT	0.0175	0.0030	"	0.0167		105	80-120			
Dieldrin	0.0166	0.0020	"	0.0167		99.8	80-120			
Heptachlor	0.0187	0.0020	"	0.0167		112	80-120			

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 Rancho Cucamonga CA, 91730

Project: MFD Perris  
 Project Number: 3-421-0267  
 Project Manager: Jim Robert

Reported:  
 05/17/21 09:07

**Organochlorine Pesticides by EPA Method 8081A - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B1E1402 - EPA 3550B Solid Ext**

**Matrix Spike (B1E1402-MS1)**

Source: 2105064-01

Prepared & Analyzed: 05/14/21

Surrogate: Decachlorobiphenyl	0.00638		mg/kg	0.00833		76.5	42-147			
Surrogate: Tetrachloro-meta-xylene	0.00534		"	0.00833		64.0	42-147			
Aldrin	0.0161	0.0020	"	0.0167	ND	96.8	50-150			
HCH-gamma (Lindane)	0.0143	0.0020	"	0.0167	ND	86.0	50-150			
4,4'-DDT	0.0172	0.0030	"	0.0167	ND	103	50-150			
Dieldrin	0.0158	0.0020	"	0.0167	ND	94.7	50-150			
Heptachlor	0.0162	0.0020	"	0.0167	ND	97.3	50-150			

**Matrix Spike Dup (B1E1402-MSD1)**

Source: 2105064-01

Prepared & Analyzed: 05/14/21

Surrogate: Decachlorobiphenyl	0.00765		mg/kg	0.00833		91.8	42-147			
Surrogate: Tetrachloro-meta-xylene	0.00734		"	0.00833		88.1	42-147			
Aldrin	0.0154	0.0020	"	0.0167	ND	92.3	50-150	4.76	30	
HCH-gamma (Lindane)	0.0164	0.0020	"	0.0167	ND	98.1	50-150	13.2	30	
4,4'-DDT	0.0174	0.0030	"	0.0167	ND	104	50-150	0.933	30	
Dieldrin	0.0143	0.0020	"	0.0167	ND	85.9	50-150	9.77	30	
Heptachlor	0.0170	0.0020	"	0.0167	ND	102	50-150	4.60	30	

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SALEM Engineering Group  
8711 Monroe Ct # A  
Rancho Cucamonga CA, 91730

Project: MFD Perris  
Project Number: 3-421-0267  
Project Manager: Jim Robert

**Reported:**  
05/17/21 09:07

#### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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**SIERRA ANALYTICAL**

TEL: 949 • 348 • 9389  
 FAX: 949 • 348 • 9115  
 26052 Merit Circle • Suite 105 • Laguna Hills, CA • 92653

**CHAIN OF CUSTODY RECORD**

Date: 5/4/21

Page: 1 of 2

Lab Work Order No.: 2105064

Client: SALEM Engineering Group, Inc.  
 Client Address: 8711 Monroe Court  
 Suite A  
 Rancho Cucamonga, CA 91730  
 Client Tel. No.: (909) 980-6455  
 Client Fax. No.: (909) 980-6435  
 Client Proj. Mgr.: REY RIVERA

Client Project ID:

3-421-0267

MFD PERBIS

Turn Around Time Requested:

Immediate     24 Hour  
 48 Hour     72 Hour  
 4 Day     5 Day  
 Normal     Mobile

**Analyses Requested**

Client Sample ID	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Field Point Names / Comments
SS-1A	01	5/4/21	0800	SOIL	ICE	GLASS	1	OCPS (EPA 80819)
SS-1B	02	5/4/21	0805	SOIL	ICE	GLASS	1	ARSENIC (EPA 60108)
SS-2A	03	5/4/21	0820	SOIL	ICE	GLASS	1	
SS-2B	04	5/4/21	0825	SOIL	ICE	GLASS	1	
SS-3A	05	5/4/21	0905	SOIL	ICE	GLASS	1	
SS-3B	06	5/4/21	0920	SOIL	ICE	GLASS	1	
SS-4A	07	5/4/21	0915	SOIL	ICE	GLASS	1	
SS-4B	08	5/4/21	0920	SOIL	ICE	GLASS	1	
SS-5A	09	5/4/21	0955	SOIL	ICE	GLASS	1	
SS-5B	10	5/4/21	1000	SOIL	ICE	GLASS	1	

Total Number of Containers Submitted to Laboratory: 14

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.  
 \* - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

Total Number of Containers Received by Laboratory: 14

Sample Disposal:  
 Return to Client  
 Lab Disposal \*  
 Archive        mus.  
 Other       

FOR LABORATORY USE ONLY - Sample Receipt Conditions:  
 Insect     Chilled - Temp (°C) 4°C  
 Sample Seals     Preservatives - Verified By         
 Properly Labelled     Other         
 Appropriate Sample Container     Storage Location AS

Shipped Via: \_\_\_\_\_ (Carrier/Waybill No.)

Sampler Signature: Patty Rin  
 Printed Name: REY RIVERA  
 Relinquished By: Patty Rin  
 Company: SALEM

Received By: K. Fink  
 Date: 5/19/21  
 Company: SIERRA

Received By: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received By: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Received By: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Company: \_\_\_\_\_

Special Instructions:

