



SUPPLEMENTAL SUBSURFACE INVESTIGATION REPORT



HIGHWAY 36, HYDESVILLE, CALIFORNIA
Prepared For:

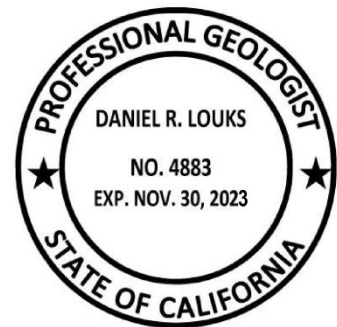
C2 Energy Capital
North Coast Highway Solar 1, LLC
North Coast Highway Solar 2, LLC
CA Marinwood Solar, LLC

Hillmann Project Number C3-8302

April 5, 2022

Written By:
Hillmann Consulting, LLC

Dan Louks
Professional Geologist 4883



Your Property. Our Priority.

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Telephone (714) 634-9500 Fax: (714) 634-9507 Toll free: (800) 232-4326
www.HillmannConsulting.com



April 5, 2022

C2 Energy Capital
North Coast Highway Solar 1, LLC
North Coast Highway Solar 2, LLC
CA Marinwood Solar, LLC

c/o Mr. Rafik Albert
EPD Solutions, Inc
2 Park Plaza
Irvine, CA 93010

RE: Supplemental Subsurface Investigation Report
20-034 North Coast Highway Solar
CA Highway 36
Hydesville, CA 10065
Hillmann Project Number: C3-8302

Dear Mr. Albert:

Hillmann Consulting, LLC, is pleased to provide this Supplemental Subsurface Investigation Report prepared for the above referenced property.

This report is for the exclusive use of the entities named on the front cover, its affiliates, designates and assignees, rating agencies, prospective bond holders and bond holders, and no other party shall have any right to rely on any service provided by Hillmann Consulting, LLC, without prior written consent.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact the Project Manager at 714-634-9500.

Very Truly Yours,
Hillmann Consulting, LLC

Brandon Clements
Partner; Western Regional Director

Your Property. Our Priority.

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1.0 INTRODUCTION / BACKGROUND

Hillmann Consulting, LLC (Hillmann) conducted a Supplemental Subsurface Investigation at the agricultural Property known as 20-034 North Coast Highway Solar, located at Highway 36, Hydesville, California. The Property is currently agricultural land that has been in use since the 1940s. The site is being considered for redevelopment as a solar farm. The site location and its vicinity are indicated on **Figure 1**.

In January 2021, Hillmann completed a Phase I Environmental Site Assessment at the Property. The active site use for agricultural purposes was identified as a potential environmental concern that justified preliminary soil sampling for organo-chlorine pesticides (OCP). Hillmann completed a shallow soil sampling program and tested the soil for OCP and heavy metals. Results indicated none of the samples had concentrations of contaminants above current commercial screening levels. In addition, records indicate that the west-adjointing site located at 1576 CA-Highway 36, was formerly occupied by Eel River Lumber Products Mill C, that maintained a 550-gallon underground storage tank (UST) that was removed in 1987. The former saw mill operation used gasoline, diesel, and VOCs and was identified as a potential off-site concern.

Based on these results, a Limited Phase II Subsurface Investigation was conducted in September 2021 that included soil gas sampling in targeted locations near the off-site former UST. The results indicated no detectable concentrations of VOC in soil gas. As a supplement to this work, sampling of groundwater was requested by the Client. This supplemental report includes all data related to the off-site former UST investigation including the soil gas and groundwater sampling results.

The current investigation is an independent assessment of the site that was constrained by time and cost factors as part of a self-directed effort. The investigation included installation of three soil gas sampling probes and two groundwater borings at the site. This investigation was not intended to meet the more stringent requirements of a regulatory driven assessment.

2.0 GEOLOGY/HYDROGEOLOGY

Based on the drilling logs, the sediments beneath the site consist primarily of sandy silt and silty sand from near surface to 8 feet below surface grade. The deeper sediments consisted of silty clay with trace sand from 20 to 35 feet below grade, the maximum depth of exploration. Groundwater was encountered at about 25-30 feet below grade and was sampled as requested. Descriptions of the sediments encountered are presented in the drilling logs (**Appendix C**).

3.0 SITE INVESTIGATION

3.1 Soil Gas Sampling

On September 11, 2021, Hillmann installed three soil gas sampling probes (SG1-SG3) along the northwest portion of the site to total depths ranging from 7-8 feet below grade. The probes were installed using hand auger tools. The locations of the probes are indicated on **Figure 1**.

The soil gas sampling probes consist of plastic micro-porous vapor implants that are approximately 2 inches long with a 0.5-inch outside diameter, connected to 0.25-inch outside diameter nylaflow tubing that extended above the surface. The annulus around each vapor implant was backfilled with approximately 1 foot of screen-washed #3 sand. Six inches of dry bentonite was placed immediately above the sand pack, followed by one-foot of bentonite that was hydrated during placement. The bentonite was further sealed with hydrated bentonite and neat cement to grade to provide a secure borehole seal. The probes were finished with gas-tight fittings at the surface pending vapor purging and sampling.

The soil gas sampling probes were allowed to equilibrate for approximately 24 hours before collecting vapor samples. Prior to vapor sampling, shut-in and leak tests were conducted on the probes. The probe head was attached to the sampling train assembly of Nylaflow tubing, valves, and fittings and connected to a purge pump. The pump was used to evacuate the sealed system using an applied vacuum of 100 inches of water column (in. WC). The vacuum on each probe was monitored for 90 seconds with the sampling train system sealed. After the shut-in test was validated, the sampling train was leak tested. Liquid isopropyl alcohol was applied around all connections in the sampling train to evaluate whether the system was sealed from ambient air leaks. A detection of 10 times the reporting limit of this compound might suggest that ambient air leakage had occurred.

The purpose of purging is to remove stagnant air from the vapor sampling train to ensure representative samples are obtained. Each probe was purged using an adjustable vacuum pump set at 200 mL/minute. During purging, the soil gas was monitored for VOC, oxygen, and carbon dioxide content using a Mini-Rae 2000 multi gas detector to ensure that non-atmospheric formation air was being sampled (**Appendix D**).

After purging three soil gas volumes through the system, vapor samples were collected from the probes on September 12, 2021. During sampling, the purge pump was operated at 200 mL/minute, and the vacuum was monitored to ensure it was below 100 in. WC. Vacuum applied below this level helps ensure chemical partitioning from pore water to soil gas and the stress on the air seals are both minimized. The samples were containerized in Tedlar bags which were delivered to the laboratory for analysis. Fresh tubing was used on each sampling train between holes. The samples were for VOC using EPA Method 8260B by A&R Laboratories of Ontario, California.

Results from soil gas sampling indicated none of the samples had detectable concentrations of VOC. These results are summarized in **Table 1**. The laboratory report from soil gas sampling is included in **Appendix B**.

3.2 Groundwater Sampling

On March 29, 2022, Hillmann returned to the site to obtain groundwater samples as requested. A hollow stem auger was utilized to drill two groundwater borings (HB1 and HB2) to depths of 35-45 feet below grade. During drilling, soil samples were obtained at select depths to determine if groundwater was present. When saturated conditions were encountered, drilling was terminated and the borehole was allowed to equilibrate for about 30 minutes. Grab

groundwater samples were obtained from each boring using a clean acrylic bailer and were laboratory analyzed for petroleum hydrocarbons and VOC.

Results from groundwater sampling indicated neither groundwater sample had detectable concentrations of petroleum hydrocarbons or VOC. These results are summarized in **Table 2**. The laboratory report from groundwater sampling is included in **Appendix B**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The subject site is active agricultural land that is being considered for a solar farm development. Previous testing of the soil for OCP and heavy metals indicated no significant or actionable concentrations that might impact the development. However, the site lies in close proximity to a site with a known UST case, which could potentially contaminate the Subject Property. Accordingly, a subsurface investigation was conducted to gauge possible impacts from off-site contaminant sources.

In September 2021, Hillmann conducted an independent subsurface investigation at the site that included installation of three soil gas probes to gauge possible subsurface contamination in targeted areas of the site near the former UST case. Results indicated none of the soil gas samples had detectable concentrations of VOC. As requested, Hillmann returned to the site in March 2022 and installed two borings drilled into groundwater for sampling. Results from laboratory analysis indicated neither groundwater sample had detectable concentrations of petroleum hydrocarbons or VOC. Based on these results, we recommend no further sampling at the site.

5.0 LIMITATIONS

This Subsurface Investigation was performed in accordance with generally and currently accepted engineering practices and principles; however, the procedures and methodologies used in this investigation are not intended to meet all specific regulatory guidelines as this work was completed as a self-directed effort. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination in other areas of the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, independent laboratory analytical results, and from current and relevant Federal, State, regional, and local agencies.

TABLE 1
Summary of Soil Gas Sampling Results (ug/L)

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	TCE	PCE	Other VOC
Sampled September 12, 2021							
SG1-7	ND<0.024	ND<0.05	ND<0.05	ND<0.10	ND<0.05	ND<0.05	ND
SG2-8	ND<0.024	ND<0.05	ND<0.05	ND<0.10	ND<0.05	ND<0.05	ND
SG3-8	ND<0.024	ND<0.05	ND<0.05	ND<0.10	ND<0.05	ND<0.05	ND
Commercial RSL AF=0.03	0.42*	1300*	4.9	440	3.0	2.0*	--
Commercial RSL AF=0.001	0.015*	43*	0.16	14.7	0.1	0.067*	--

*Notes: ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk based screening levels used by EPA and DTSC to determine Health Risk in residential and commercial settings. *-Values modified for California by DTSC HERO Note 3. Screening levels for soil gas calculated using indoor air values and attenuation factor provided by EPA (0.03) and DTSC (0.001). Please refer to lab report for complete results.*

TABLE 2
Summary of Groundwater Sampling Results (ug/L)

Sample ID	VOC	TPHg C4-C12	TPHd C13-C22	TPH-Oil C23-C40
HB1-GW	ND	ND<50	ND<400	ND<800
HB2-GW	ND	ND<50	ND<400	ND<800

Notes: ND - Not Detected. Please refer to lab report for complete results.

SOIL GAS MONITORING DATA FORM

PROJECT: Agricultural Property

LOCATION: Highway 36, Hydesville, California

DATE: September 12, 2021

	VAPOR PROBE INFO							
PROBE ID	SG1	SG2	SG3					
PROBE DEPTH (ft)	7	8	8					
	EXTRACTION DATA							
Applied Vacuum (in. WC)	<5	<5	<5					
FLOW (L/min)	0.2	0.2	0.2					
Pore Volumes (borehole - sand pack)	3	3	3					
	MONITORING DATA							
OXYGEN (%)	18.0	18.5	18.8					
CARBON DIOXIDE (%)	4.0	3.65	3.10					
VOC by PID (ppm)	0.0	0.0	0.0					

	VAPOR PROBE INFO							
PROBE ID								
PROBE DEPTH (ft)								
	EXTRACTION DATA							
Applied Vacuum (in. WC)								
FLOW (L/min)								
Pore Volumes (borehole - sand pack)								
	MONITORING DATA							
OXYGEN (%)								
CARBON DIOXIDE (%)								
VOC by PID (ppm)								

REMARKS: _____

SAMPLED BY: NH

FIGURES



HILLMANN
CONSULTING

Figure 1 Site Diagram

CA Highway- 36
Hydesville, California

N



SCALE: (NOT TO SCALE)

PROJECT No.: C3-8302

APPENDIX A

Site Photos



SG1



SG2



SG3



Drilling HB1



Drilling HB2



Water Sampling



Grouted Boring

APPENDIX B
Laboratory Report



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ELAP#s	2789
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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
09/16/2021 13:56:06

Laboratory Job No. (Certificate of Analysis No.)

2109-00077

Project Name / No.

FARMLAND

Dates Sampled (from/to)

09/12/21 To 09/12/21

Dates Received (from/to)

09/13/21 To 09/13/21

Dates Reported (from/to)

09/16/21 To 9/16/2021

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None



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CERTIFICATE OF ANALYSIS

2109-00077

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
STE#110
ORANGE, CA

Project: FARMLAND

Date Reported 09/16/21
Date Received 09/13/21
Invoice No. 92821
Cust # G073
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 SG1-7								Date & Time Sampled: 09/12/21 @ 8:05		
Sample Matrix: Soil Vapor										
[VOCs by GCMS]										
Acetone	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Benzene	<0.024		µg/L	EPA 8260B	1.0	0.0240	0.10	09/13/21	5:00	JEN
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromomethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.0250	0.050	09/13/21	5:00	JEN
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN

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Project: FARMLAND

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 SG1-7								Date & Time Sampled: 09/12/21	@ 8:05	
Sample Matrix: Soil Vapor										
.....continued										
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.0500	0.1	09/13/21	5:00	JEN
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.0320	0.050	09/13/21	5:00	JEN
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN

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Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 SG1-7						Date & Time Sampled:		09/12/21	@	8:05
Sample Matrix: Soil Vapor										
.....continued										
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Trichlorotrifluoroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Vinyl Chloride	<0.008		µg/L	EPA 8260B	1.0	0.0080	0.050	09/13/21	5:00	JEN
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.1000	0.20	09/13/21	5:00	JEN
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
[VOC Surrogates]										
Dibromofluoromethane	83		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Toluene-D8	94		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Bromofluorobenzene	86		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Sample: 002 SG2-8						Date & Time Sampled:		09/12/21	@	8:20
Sample Matrix: Soil Vapor										
[VOCs by GCMS]										
Acetone	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Benzene	<0.024		µg/L	EPA 8260B	1.0	0.0240	0.10	09/13/21	5:00	JEN
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromomethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN

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CERTIFICATE OF ANALYSIS

2109-00077

Date Reported 09/16/21
Date Received 09/13/21
Invoice No. 92821
Cust # G073
Permit Number
Customer P.O.

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
STE#110
ORANGE, CA

Project: FARMLAND

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 SG2-8								Date & Time Sampled: 09/12/21	@ 8:20	
Sample Matrix: Soil Vapor										
.....continued										
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.0250	0.050	09/13/21	5:00	JEN
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN

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CERTIFICATE OF ANALYSIS

2109-00077

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
STE#110
ORANGE, CA

Project: FARMLAND

Date Reported 09/16/21
Date Received 09/13/21
Invoice No. 92821
Cust # G073
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 SG2-8								Date & Time Sampled: 09/12/21	@ 8:20	
Sample Matrix: Soil Vapor										
.....continued										
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.0500	0.1	09/13/21	5:00	JEN
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.0320	0.050	09/13/21	5:00	JEN
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Trichlorotrifluoroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Vinyl Chloride	<0.008		µg/L	EPA 8260B	1.0	0.0080	0.050	09/13/21	5:00	JEN
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.1000	0.20	09/13/21	5:00	JEN
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
[VOC Surrogates]										
Dibromofluoromethane	86		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Toluene-D8	94		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN

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CERTIFICATE OF ANALYSIS

2109-00077

Date Reported 09/16/21

Date Received 09/13/21

Invoice No. 92821

Cust # G073

Permit Number

Customer P.O.

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
STE#110
ORANGE, CA

Project: FARMLAND

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 SG2-8								Date & Time Sampled: 09/12/21	@	8:20
Sample Matrix: Soil Vapor										
.....continued										
Bromofluorobenzene	85		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Sample: 003 SG3-8								Date & Time Sampled: 09/12/21	@	8:35
Sample Matrix: Soil Vapor										
[VOCs by GCMS]										
Acetone	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
t-Amyl Methyl Ether (TAME)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Benzene	<0.024		µg/L	EPA 8260B	1.0	0.0240	0.10	09/13/21	5:00	JEN
Bromobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromodichloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromoform	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Bromomethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
t-Butanol (TBA)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
2-Butanone (MEK)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
n-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
sec-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
tert-Butylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Carbon Disulfide	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Carbon Tetrachloride	<0.025		µg/L	EPA 8260B	1.0	0.0250	0.050	09/13/21	5:00	JEN
Chlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloroform	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Chloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
4-Chlorotoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Dibromochloromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dibromoethane (EDB)	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
1,2-Dibromo-3-Chloropropane	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
Dibromomethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN

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CERTIFICATE OF ANALYSIS

2109-00077

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
STE#110
ORANGE, CA

Project: FARMLAND

Date Reported 09/16/21
Date Received 09/13/21
Invoice No. 92821
Cust # G073
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 SG3-8								Date & Time Sampled: 09/12/21	@ 8:35	
Sample Matrix: Soil Vapor										
.....continued										
1,3-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,4-Dichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Dichlorodifluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
cis-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
trans-1,2-Dichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2,2-Dichloropropane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
cis-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
trans-1,3-Dichloropropene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Diisopropyl Ether (DiPE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Ethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Hexachlorobutadiene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
2-Hexanone	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Isopropylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
4-Isopropyltoluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Methylene Chloride	<0.05		µg/L	EPA 8260B	1.0	0.0500	0.1	09/13/21	5:00	JEN
4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Naphthalene	<0.032		µg/L	EPA 8260B	1.0	0.0320	0.050	09/13/21	5:00	JEN
n-Propylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Styrene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,1,2-Tetrachloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,2,2-Tetrachloroethane	<0.05		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Tetrachloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Toluene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research



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LA City#	10261
ELAP#s	2789
	2790
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CERTIFICATE OF ANALYSIS

2109-00077

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE
STE#110
ORANGE, CA

Project: FARMLAND

Date Reported 09/16/21
Date Received 09/13/21
Invoice No. 92821
Cust # G073
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 SG3-8								Date & Time Sampled: 09/12/21	@ 8:35	
Sample Matrix: Soil Vapor										
.....continued										
1,2,3-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,4-Trichlorobenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,1-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,1,2-Trichloroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Trichloroethene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,3-Trichloropropane	<0.020		µg/L	EPA 8260B	1.0	0.0200	0.10	09/13/21	5:00	JEN
Trichlorofluoromethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Trichlorotrifluoroethane	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,2,4-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
1,3,5-Trimethylbenzene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
Vinyl Chloride	<0.008		µg/L	EPA 8260B	1.0	0.0080	0.050	09/13/21	5:00	JEN
m,p-Xylenes	<0.10		µg/L	EPA 8260B	1.0	0.1000	0.20	09/13/21	5:00	JEN
o-Xylene	<0.050		µg/L	EPA 8260B	1.0	0.0500	0.10	09/13/21	5:00	JEN
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.50		µg/L	EPA 8260B	1.0	0.5000	1.0	09/13/21	5:00	JEN
[VOC Surrogates]										
Dibromofluoromethane	87		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Toluene-D8	94		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN
Bromofluorobenzene	83		%REC	EPA 8260B			70-130	09/13/21	5:00	JEN

Respectfully Submitted:

Ken Zheng

Ken Zheng - President



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QUALIFIERS

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

ABBREVIATIONS

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

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

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



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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
ORANGE, CA

2109-00077

Date Reported 09/16/2021
Date Received 09/13/2021
Date Sampled 09/12/2021
Invoice No. 92821
Customer # G073
Customer P.O.

Project: FARMLAND

Method # EPA 8260B

QC Reference # 98397 Date Analyzed: 9/13/2021 Technician: JEN

Samples 001 002 003

Results

Control Ranges

	LCS %REC	LCS %DUP	LCS %RPD	LCS %REC	LCS %RPD
1,1-Dichloroethene	90	75	15	70 - 130	0 - 25
Benzene	110	85	25	70 - 130	0 - 25
Chlorobenzene	115	90	25	70 - 130	0 - 25
Toluene	115	95	20	70 - 130	0 - 25
Trichloroethene	105	85	20	70 - 130	0 - 25



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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING

2109-0077

Date Reported 09/16/2021
Date Received 09/13/2021
Date Sampled 09/12/2021

Project: FARMLAND

Method blank results

Ref	Test Name	Result	Qualif	Units	MDL	Ref	Test Name	Result	Qualif	Units	MDL
98397	Acetone	<0.50		µg/L	0.50		Isopropylbenzene	<0.050		µg/L	0.050
	t-Amyl Methyl Ether (TAME)	<0.050		µg/L	0.050		4-Isopropyltoluene	<0.050		µg/L	0.050
	Benzene	<0.024		µg/L	0.024		Methylene Chloride	<0.05		µg/L	0.05
	Bromobenzene	<0.050		µg/L	0.050		4-Methyl-2-Pentanone (MIBK)	<0.50		µg/L	0.50
	Bromochloromethane	<0.050		µg/L	0.050		Methyl-t-butyl Ether (MtBE)	<0.050		µg/L	0.050
	Bromodichloromethane	<0.050		µg/L	0.050		Naphthalene	<0.032		µg/L	0.032
	Bromoform	<0.050		µg/L	0.050		n-Propylbenzene	<0.050		µg/L	0.050
	Bromomethane	<0.050		µg/L	0.050		Styrene	<0.050		µg/L	0.050
	t-Butanol (TBA)	<0.50		µg/L	0.50		1,1,1,2-Tetrachloroethane	<0.050		µg/L	0.050
	2-Butanone (MEK)	<0.50		µg/L	0.50		1,1,2,2-Tetrachloroethane	<0.05		µg/L	0.05
	n-Butylbenzene	<0.050		µg/L	0.050		Tetrachloroethene	<0.050		µg/L	0.050
	sec-Butylbenzene	<0.050		µg/L	0.050		Toluene	<0.050		µg/L	0.050
	tert-Butylbenzene	<0.050		µg/L	0.050		1,2,3-Trichlorobenzene	<0.050		µg/L	0.050
	Carbon Disulfide	<0.50		µg/L	0.50		1,2,4-Trichlorobenzene	<0.050		µg/L	0.050
	Carbon Tetrachloride	<0.025		µg/L	0.025		1,1,1-Trichloroethane	<0.050		µg/L	0.050
	Chlorobenzene	<0.050		µg/L	0.050		1,1,2-Trichloroethane	<0.050		µg/L	0.050
	Chloroethane	<0.050		µg/L	0.050		Trichloroethene	<0.050		µg/L	0.050
	Chloroform	<0.050		µg/L	0.050		1,2,3-Trichloropropane	<0.020		µg/L	0.020
	Chloromethane	<0.050		µg/L	0.050		Trichlorofluoromethane	<0.050		µg/L	0.050
	2-Chlorotoluene	<0.050		µg/L	0.050		Trichlorotrifluoroethane	<0.050		µg/L	0.050
	4-Chlorotoluene	<0.050		µg/L	0.050		1,2,4-Trimethylbenzene	<0.050		µg/L	0.050
	Dibromochloromethane	<0.050		µg/L	0.050		1,3,5-Trimethylbenzene	<0.050		µg/L	0.050
	1,2-Dibromoethane (EDB)	<0.020		µg/L	0.020		Vinyl Chloride	<0.008		µg/L	0.008
	1,2-Dibromo-3-Chloropropane	<0.020		µg/L	0.020		m,p-Xylenes	<0.10		µg/L	0.10
	Dibromomethane	<0.050		µg/L	0.050		o-Xylene	<0.050		µg/L	0.050
	1,2-Dichlorobenzene	<0.050		µg/L	0.050		Isopropanol (IPA)	<0.50		µg/L	0.50
	1,3-Dichlorobenzene	<0.050		µg/L	0.050						
	1,4-Dichlorobenzene	<0.050		µg/L	0.050						
	Dichlorodifluoromethane	<0.050		µg/L	0.050						
	1,1-Dichloroethane	<0.050		µg/L	0.050						
	1,2-Dichloroethane	<0.050		µg/L	0.050						
	1,1-Dichloroethene	<0.050		µg/L	0.050						
	cis-1,2-Dichloroethene	<0.050		µg/L	0.050						
	trans-1,2-Dichloroethene	<0.050		µg/L	0.050						
	1,2-Dichloropropane	<0.050		µg/L	0.050						
	1,3-Dichloropropane	<0.050		µg/L	0.050						
	2,2-Dichloropropane	<0.050		µg/L	0.050						
	1,1-Dichloropropene	<0.050		µg/L	0.050						
	cis-1,3-Dichloropropene	<0.050		µg/L	0.050						
	trans-1,3-Dichloropropene	<0.050		µg/L	0.050						
	Diisopropyl Ether (DIPE)	<0.050		µg/L	0.050						
	Ethylbenzene	<0.050		µg/L	0.050						
	Ethyl-t-Butyl Ether (EtBE)	<0.050		µg/L	0.050						
	Hexachlorobutadiene	<0.050		µg/L	0.050						
	2-Hexanone	<0.50		µg/L	0.50						



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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING

2109-00077

Date Reported 09/16/2021

Date Received 09/13/2021

Date Sampled 09/12/2021

Project: FARMLAND

Respectfully Submitted:

Ken Zheng - President

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

RUSH

Client Name Hillman CONSULTING				<input type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested	
E-mail Dan@asaengineering.net				<input checked="" type="checkbox"/> Intact												<input type="checkbox"/> Rush 8 12 24 48 Hours 72 hr <input type="checkbox"/> Normal	
Address 1745 W. ORANGEWOOD AVE., ORANGE				<input type="checkbox"/> Seal													
Report Attention DAN LOUKY		Phone # (714) 206-3916		Sampled By DAN LOUKY													
Project No./ Name Farm/land		Project Site CA 36 West of RIVER BAR ARIVE, Hydelsville															
Lab # <small>(Lab use)</small>	Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks	
		Date	Time														
1	SG1-7	9/12/21	8:05	Air	-	Simma	X										*Res
2	SG2-8	↓	8:20	↓	↓	↓	X										Standard
3	SG3-8	↓	8:35	↓	↓	↓	X										
Relinquished By [Signature]		Company Hillman		Date 9/13/21		Time 11:00		Received By [Signature]		Company		Date 9/13		Time 11:00		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.	
Relinquished By		Company		Date		Time		Received By		Company		Date		Time			

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
--------------	--	--	-------------------	---	--	--	---	-----------



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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng

Ken Zheng, President
04/04/2022 17:28:43

Laboratory Job No. (Certificate of Analysis No.)

2204-00004

Project Name / No.

FARM / 20-036 N. COAST HWY., HYDESVILLE

Dates Sampled (from/to)

03/29/22 To 03/29/22

Dates Received (from/to)

04/01/22 To 04/01/22

Dates Reported (from/to)

04/04/22 To 4/4/2022

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None



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CERTIFICATE OF ANALYSIS

2204-00004

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE 110
ORANGE, CA 92868

Date Reported 04/04/22
Date Received 04/01/22
Invoice No. 94585
Cust # G073
Permit Number
Customer P.O.

Project: FARM / 20-036 N. COAST HWY., HYDESVILLE

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HB1-GW							Date & Time Sampled: 03/29/22 @ 12:30	
Sample Matrix: Aqueous								
[TPH Gasoline]								
Gasoline (C4-C12)	<50		ug/L	EPA 8015M	1.0	50	04/04/22	IG
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3510C	1.0		04/04/22	IG
C13-C22	<0.40		mg/L	EPA 8015M	1.0	0.40	04/04/22	IG
C23-C40	<0.80		mg/L	EPA 8015M	1.0	0.80	04/04/22	IG
[Surrogate]								
o-Terphenyl (OTP)	110		%REC	EPA 8015M		50-150	04/04/22	IG
[VOCs by GCMS]								
Acetone	<100		µg/L	EPA 8260B	1.0	100	04/04/22	IG
t-Amyl Methyl Ether (TAME)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Benzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromochloromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromodichloromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromoform	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromomethane	<2.0		µg/L	EPA 8260B	1.0	2.0	04/04/22	IG
t-Butanol (TBA)	<25		µg/L	EPA 8260B	1.0	25	04/04/22	IG
2-Butanone (MEK)	<12.5		µg/L	EPA 8260B	1.0	12.5	04/04/22	IG
n-Butylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
sec-Butylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
tert-Butylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Carbon Disulfide	<10		µg/L	EPA 8260B	1.0	10	04/04/22	IG
Carbon Tetrachloride	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chloroform	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chloromethane	<2.0		µg/L	EPA 8260B	1.0	2.0	04/04/22	IG
2-Chlorotoluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
4-Chlorotoluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Dibromochloromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dibromoethane (EDB)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG

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CERTIFICATE OF ANALYSIS

2204-00004

HILLMANN CONSULTING
BRANDON CLEMENTS
1745 W. ORANGEWOOD AVE.
SUITE 110
ORANGE, CA 92868

Date Reported 04/04/22
Date Received 04/01/22
Invoice No. 94585
Cust # G073
Permit Number
Customer P.O.

Project: FARM / 20-036 N. COAST HWY., HYDESVILLE

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HB1-GW							Date & Time Sampled: 03/29/22 @ 12:30	
Sample Matrix: Aqueous								
.....continued								
1,2-Dibromo-3-Chloropropane	<10		µg/L	EPA 8260B	1.0	10	04/04/22	IG
Dibromomethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,3-Dichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,4-Dichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Dichlorodifluoromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1-Dichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1-Dichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
cis-1,2-Dichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
trans-1,2-Dichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,3-Dichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
2,2-Dichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1-Dichloropropene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
cis-1,3-Dichloropropene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
trans-1,3-Dichloropropene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Diisopropyl Ether (DIPE)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Ethylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Ethyl-t-Butyl Ether (EtBE)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Hexachlorobutadiene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
2-Hexanone	<12.5		µg/L	EPA 8260B	1.0	12.5	04/04/22	IG
Isopropylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
4-Isopropyltoluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Methylene Chloride	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
4-Methyl-2-Pentanone (MIBK)	<12.5		µg/L	EPA 8260B	1.0	12.5	04/04/22	IG
Methyl-t-butyl Ether (MtBE)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Naphthalene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
n-Propylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Styrene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,1,2-Tetrachloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG

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Customer P.O.

Project: FARM / 20-036 N. COAST HWY., HYDESVILLE

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HB1-GW							Date & Time Sampled: 03/29/22 @ 12:30	
Sample Matrix: Aqueous								
.....continued								
1,1,2,2-Tetrachloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Tetrachloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Toluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,3-Trichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,4-Trichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,1-Trichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,2-Trichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Trichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,3-Trichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Trichlorofluoromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Trichlorotrifluoroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,4-Trimethylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,3,5-Trimethylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Vinyl Chloride	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
m,p-Xylenes	<2.0		µg/L	EPA 8260B	1.0	2.0	04/04/22	IG
o-Xylene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
[VOC Surrogates]								
Dibromofluoromethane	77		%REC	EPA 8260B		70-130	04/04/22	IG
Toluene-D8	95		%REC	EPA 8260B		70-130	04/04/22	IG
Bromofluorobenzene	87		%REC	EPA 8260B		70-130	04/04/22	IG
Sample: 002 HB2-GW							Date & Time Sampled: 03/29/22 @ 16:00	
Sample Matrix: Aqueous								
[TPH Gasoline]								
Gasoline (C4-C12)	<50		ug/L	EPA 8015M	1.0	50	04/04/22	IG
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3510C	1.0		04/04/22	IG
C13-C22	<0.40		mg/L	EPA 8015M	1.0	0.40	04/04/22	IG
C23-C40	<0.80		mg/L	EPA 8015M	1.0	0.80	04/04/22	IG
[Surrogate]								
o-Terphenyl (OTP)	100		%REC	EPA 8015M		50-150	04/04/22	IG

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Project: FARM / 20-036 N. COAST HWY., HYDESVILLE

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HB2-GW							Date & Time Sampled: 03/29/22 @ 16:00	
Sample Matrix: Aqueous								
.....continued								
[VOCs by GCMS]								
Acetone	<100		µg/L	EPA 8260B	1.0	100	04/04/22	IG
t-Amyl Methyl Ether (TAME)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Benzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromochloromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromodichloromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromoform	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Bromomethane	<2.0		µg/L	EPA 8260B	1.0	2.0	04/04/22	IG
t-Butanol (TBA)	<25		µg/L	EPA 8260B	1.0	25	04/04/22	IG
2-Butanone (MEK)	<12.5		µg/L	EPA 8260B	1.0	12.5	04/04/22	IG
n-Butylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
sec-Butylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
tert-Butylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Carbon Disulfide	<10		µg/L	EPA 8260B	1.0	10	04/04/22	IG
Carbon Tetrachloride	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chloroform	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Chloromethane	<2.0		µg/L	EPA 8260B	1.0	2.0	04/04/22	IG
2-Chlorotoluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
4-Chlorotoluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Dibromochloromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dibromoethane (EDB)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dibromo-3-Chloropropane	<10		µg/L	EPA 8260B	1.0	10	04/04/22	IG
Dibromomethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,3-Dichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,4-Dichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Dichlorodifluoromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1-Dichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HB2-GW							Date & Time Sampled: 03/29/22 @ 16:00	
Sample Matrix: Aqueous								
.....continued								
1,2-Dichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1-Dichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
cis-1,2-Dichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
trans-1,2-Dichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2-Dichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,3-Dichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
2,2-Dichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1-Dichloropropene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
cis-1,3-Dichloropropene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
trans-1,3-Dichloropropene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Diisopropyl Ether (DiPE)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Ethylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Ethyl-t-Butyl Ether (EtBE)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Hexachlorobutadiene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
2-Hexanone	<12.5		µg/L	EPA 8260B	1.0	12.5	04/04/22	IG
Isopropylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
4-Isopropyltoluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Methylene Chloride	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
4-Methyl-2-Pentanone (MIBK)	<12.5		µg/L	EPA 8260B	1.0	12.5	04/04/22	IG
Methyl-t-butyl Ether (MtBE)	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Naphthalene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
n-Propylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Styrene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,1,2-Tetrachloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,1,2,2-Tetrachloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Tetrachloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Toluene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,3-Trichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,4-Trichlorobenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,1-Trichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,1,2-Trichloroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HB2-GW							Date & Time Sampled: 03/29/22 @ 16:00	
Sample Matrix: Aqueous								
.....continued								
Trichloroethene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,3-Trichloropropane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Trichlorofluoromethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Trichlorotrifluoroethane	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,2,4-Trimethylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
1,3,5-Trimethylbenzene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
Vinyl Chloride	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
m,p-Xylenes	<2.0		µg/L	EPA 8260B	1.0	2.0	04/04/22	IG
o-Xylene	<1.0		µg/L	EPA 8260B	1.0	1.0	04/04/22	IG
[VOC Surrogates]								
Dibromofluoromethane	75		%REC	EPA 8260B		70-130	04/04/22	IG
Toluene-D8	93		%REC	EPA 8260B		70-130	04/04/22	IG
Bromofluorobenzene	86		%REC	EPA 8260B		70-130	04/04/22	IG

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

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

ABBREVIATIONS

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



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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
 ORANGE, CA 92868

2204-00004

Date Reported 04/04/2022
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 Date Sampled 03/29/2022
 Invoice No. 94585
 Customer # G073
 Customer P.O.

Project: FARM / 20-036 N. COAST HWY., HYDESVILLE

Method # EPA 8015M

QC Reference # 102050 Date Analyzed: 4/4/2022 Technician: IG

Samples 001 002

Results

	LCS %REC	LCS %DUP	LCS %RPD	BLKSRR%REC
C13-C22 o-Terphenyl (OTP)	100	100	0	130

Control Ranges

LCS %REC	LCS %RPD	BLKSRR%REC
70 - 130	0 - 25	50 - 150

QC Reference # 102061 Date Analyzed: 4/4/2022 Technician: IG

Samples 001 002

Results

	LCS %REC	LCS %DUP	LCS %RPD
Gasoline (C4-C12)	82	76	6

Control Ranges

LCS %REC	LCS %RPD
70 - 130	0 - 25

Method # EPA 8260B

QC Reference # 102060 Date Analyzed: 4/4/2022 Technician: IG

Samples 001 002

Results

	LCS %REC	LCS %DUP	LCS %RPD	BLKSRR%REC
1,1-Dichloroethene	74	71	4.1	
Benzene	94	87	7	
Bromofluorobenzene				95
Chlorobenzene	110	100	10	
Dibromofluoromethan				90
Toluene	120	120	0	
Toluene-D8				96
Trichloroethene	100	100	0	

Control Ranges

LCS %REC	LCS %RPD	BLKSRR%REC
50 - 150	0 - 30	
50 - 150	0 - 30	
		50 - 150
50 - 150	0 - 30	
50 - 150	0 - 30	
		50 - 150
50 - 150	0 - 30	

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President



Sample Acceptance Checklist

CLIENT: Hillmann Consult. WORK ORDER NUMBER: 2204-4

Temperature:(Criteria:0.0°C-6.0°C)
 Sample Temp.(w/CF) °C(w/CF) 3.9°c

Sample(s) outside temprature criteria: PM contacted by :
 Sample(s) outside temprature criteria, but received on ice/chilled on same day of sampling.
 Sample(s) received at ambient temprature; placed on ice for transport by courier.
 Ambient Temperature Air Filter

CUSTODY SEAL:
 Cooler Present and Intact Present and Not Intact Not Present
 Sample(s) Present and Intact Present and Not Intact Not Present

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

Explanations/Comments:

Notification:
 For discrepancies, how was the Project Manager notified? Verbal
 Verbal: PM Initials: _____ Data/Time: _____
 Email: Send to: _____ Data/Time: _____
 Project Manager's response:

Completed By: [Signature] Date: 4.1.22

APPENDIX C

Drilling Logs

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SG1

PROJECT Agricultural Property

OWNER _____

LOCATION Highway 36 Hydesville, CA

PROJECT NUMBER _____

DATE DRILLED September 11, 2021

TOTAL DEPTH OF HOLE 7 Feet

SURFACE ELEVATION _____

DEPTH TO WATER _____

SCREEN: DIA. _____ **LENGTH** _____ **SLOT SIZE** _____

CASING: DIA. _____ **LENGTH** _____ **TYPE** _____

DRILLING COMPANY Hillmann

DRILL METHOD Hand Auger

DRILLER Neil/Dan

LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS (USCS)	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW		
0-3						ML	Sandy SILT; gray, very fine sand, low plasticity, some clay, loose, no odor.
3-7						SM/CL	Silty SAND; reddish brown, very fine sand, loose, no odor. Changes to Silty CLAY; brown, medium plasticity, moist, trace fine sand at 7 feet. Install Probe SG1 at 7 feet below grade. Seal with bentonite and neat cement to surface.

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SG2
PROJECT Agricultural Property **OWNER** _____
LOCATION Highway 36 Hydesville, CA **PROJECT NUMBER** _____
DATE DRILLED September 11, 2021 **TOTAL DEPTH OF HOLE** 8 Feet
SURFACE ELEVATION _____ **DEPTH TO WATER** _____
SCREEN: DIA. _____ **LENGTH** _____ **SLOT SIZE** _____
CASING: DIA. _____ **LENGTH** _____ **TYPE** _____
DRILLING COMPANY Hillmann **DRILL METHOD** Hand Auger
DRILLER Neil/Dan **LOG BY** Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS (USCS)	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW		
0-8						ML	<p>Sandy SILT; brown, very fine sand, low plasticity, some clay, no odor.</p> <p>Install Probe SG2 at 8 feet below grade. Seal with bentonite and neat cement to surface.</p>

DRILL/LITHOLOGIC LOG

BORING/WELL NUMBER SG3

PROJECT Agricultural Property

OWNER _____

LOCATION Highway 36 Hydesville, CA

PROJECT NUMBER _____

DATE DRILLED September 11, 2021

TOTAL DEPTH OF HOLE 8 Feet

SURFACE ELEVATION _____

DEPTH TO WATER _____

SCREEN: DIA. _____ **LENGTH** _____

SLOT SIZE _____

CASING: DIA. _____ **LENGTH** _____

TYPE _____

DRILLING COMPANY Hillmann

DRILL METHOD Hand Auger

DRILLER Neil/Dan

LOG BY Dan Louks

DEPTH (FEET)	WELL CONST		PID (PPM)	SAMPLES		SOIL CLASS (USCS)	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	BLOW		
0-8						ML	<p>Sandy SILT; brown, very fine sand, low plasticity, some clay, no odor.</p> <p>Install Probe SG3 at 8 feet below grade. Seal with bentonite and neat cement to surface.</p>

APPENDIX D
Soil Gas Monitoring Data

SOIL GAS MONITORING DATA FORM

PROJECT: Agricultural Property

LOCATION: Highway 36, Hydesville, California

DATE: September 12, 2021

	VAPOR PROBE INFO							
PROBE ID	SG1	SG2	SG3					
PROBE DEPTH (ft)	7	8	8					
	EXTRACTION DATA							
Applied Vacuum (in. WC)	<5	<5	<5					
FLOW (L/min)	0.2	0.2	0.2					
Pore Volumes (borehole - sand pack)	3	3	3					
	MONITORING DATA							
OXYGEN (%)	18.0	18.5	18.8					
CARBON DIOXIDE (%)	4.0	3.65	3.10					
VOC by PID (ppm)	0.0	0.0	0.0					

	VAPOR PROBE INFO							
PROBE ID								
PROBE DEPTH (ft)								
	EXTRACTION DATA							
Applied Vacuum (in. WC)								
FLOW (L/min)								
Pore Volumes (borehole - sand pack)								
	MONITORING DATA							
OXYGEN (%)								
CARBON DIOXIDE (%)								
VOC by PID (ppm)								

REMARKS: _____

SAMPLED BY: NH

APPENDIX E

Well Permit



Division of Environmental Health

100 H Street - Suite 100 - Eureka, CA 95501
Phone: 707-445-6215 - Toll Free: 800-963-9241
Fax: 707-441-5699
envhealth@co.humboldt.ca.us

**HAZARDOUS MATERIALS UNIT
MONITORING WELL AND BORING PERMIT APPLICATION**

Facility ID # _____

Permit # SR0002331

DO NOT WRITE ABOVE THIS LINE - FOR AGENCY USE ONLY

SITE / FACILITY NAME N/A Proposed Work Date 12/22/21

Physical Address 2020 St Highway 36, Hydesville, CA APN 204-081-004, and -007

PROPERTY OWNER Melinda & Phil Nyberg

Contact Name Melinda & Phil Nyberg Email philnyberg@att.net

Mailing Address _____ Telephone _____

RESPONSIBLE PARTY / CLIENT EPD Solutions

Contact Name Rafik Albert Email rafik@epdsolutions.com

Mailing Address 2 Park Plaza, Ste. 1120, Irvine, CA Telephone 949-749-1182

CONSULTANT Hillmann Consulting License Type and # Geologist

Contact Name Dan Louks PG 4883 Email Dan@gsaengineering.net

Mailing Address 1745 W Orangewood Avenue, 201, orange, CA Telephone 714-392-5920

DRILLER FISCH DRILLING C-57 License # 683865

Contact Name CHRIS FISCH Email chris@fischdrilling.com

Mailing Address 3150 Johnson Rd. Hydesville, CA 95547 Telephone 707-768-9800

INVESTIGATION TYPE Regulated Case, Case ID Number _____ Geotechnical
 Site Characterization / Due Diligence Other _____

WELLS AND BORINGS TO BE INSTALLED OR MODIFIED Number of Wells _____ Number of Borings 2

INSTALLATION METHOD Hollow Stem Auger Direct Push Hand Auger Ultrasonic
 Cone Penetrometer Mud Rotary Air Rotary Other _____

WELL TYPE Monitoring Extraction Injection Cathodic Protection
 Soil Gas Piezometer Geothermal Other _____

WELLS TO BE DESTROYED Number of Wells NA

DESTRUCTION METHOD Pressure Grout Overbore Other _____

SUSPECTED CONTAMINATES Potential hydrocarbons

CONTAINMENT/DISPOSAL OF INVESTIGATION DERIVED WASTE _____

Contained in DOT drums pending characterization

Facility ID # _____

Permit # SR0002331

DO NOT WRITE ABOVE THIS LINE - FOR AGENCY USE ONLY

PERMITS WILL NOT BE PROCESSED WITHOUT THE FOLLOWING:

- Completed application and fees, must be submitted together.
- Detailed Site Plan - overhead view.
- Well construction details - specifications of borehole, casing/screen interval, filter pack, seal and surface features.
- Lead agency workplan concurrence - required for regulated cleanup sites.
- Off-site work - encroachment permit for work in municipal right-of-way; access agreement for work on private property.

UPON COMPLETION OF WORK:

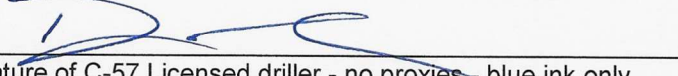
- Well identification number must be displayed on the well box/monument.
- State Water Well Completion Report (form DWR 188) must be submitted within 60 days of completion of work.

CERTIFICATES OF INSURANCE:

- A Currently effective General Liability Certificate of Insurance is on file with Humboldt County Division of Environmental Health, endorsed to include the Humboldt County Division of Environmental Health named as additional insured.
- A Currently effective Worker's Compensation Certificate of Insurance is on file with Humboldt County Division of Environmental Health, endorsed to include the Humboldt County Division of Environmental Health named as additional insured.

I hereby agree to comply with all laws, ordinances and regulations of the County of Humboldt Division of Environmental Health (DEH) and State of California pertaining to water well construction. I acknowledge this application will become a permit only after workplan concurrence by the lead agency with regulatory jurisdiction (DEH, North Coast Regional Water Quality Control Board, Department of Toxic Substances Control / California Environmental Protection Agency). I understand this permit is not transferable and expires one hundred twenty (120) days from the date of permit approval. I will notify DEH at (707) 445-6215 Five (5) working days prior to commencing this work.


For well installation/destruction, I will submit a State Water Well Completion Report (form DWR 188) within 60 days of completion of work to obtain final approval of this permit.

 12/15/2021
Signature of C-57 Licensed driller - no proxies - blue ink only Date

If paid by Credit Card: Date and amount paid 11/24/2021 \$177 Confirmation #: 08841Q

DO NOT WRITE BELOW THIS LINE - FOR AGENCY USE ONLY

* FOR OFFICE USE ONLY *		
Amount Paid <input type="checkbox"/> Cash \$ <input type="checkbox"/> Check #	Receipt Number	O.P. confirmed by: JAG
FA#	SR # 0002331	IN#

PLAN APPROVED  DATE 12/17/2021

WORK APPROVED _____ DATE _____

NON-TRANSFERABLE

WHEN APPROVED, THIS IS YOUR PERMIT