

**McGrath Oil Wells 13-1A & 13-3**  
**Well Gas Check, Cellar & Sump Investigation**  
Rice Avenue Property  
Oxnard, CA

**March 13, 2020**

**Prepared For:**

**Mr. Clayton Dragoo**  
**Fisher Construction Group**  
625 Fisher Lane  
Burlington, WA 98233

**Prepared By:**

**Buena Resources, Inc.**  
P.O. Box 2040  
Santa Maria, CA 93457-2040

**Well Gas Check, Cellar & Sump Investigation**  
Rice Avenue Property  
Oxnard, CA

## **TABLE OF CONTENTS**

<b>1.0 Scope of Investigation:</b>	<b>1</b>
<b>2.0 Gas Check:</b>	<b>1</b>
<b>3.0 Removal of Cellar Concrete:</b>	<b>2</b>
<b>4.0 Soil Sampling of Cellar Excavation:</b>	<b>2-3</b>
<b>5.0 Sump Investigation</b>	<b>3</b>
<b>6.0 Discussion of Results</b>	<b>3-4</b>
<b>7.0 Conclusions:</b>	<b>4-5</b>

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**Appendix A Site Map, Sampling Map, DOGGR Map, Survey Results and Gas Check Results**

**Appendix B Laboratory Summary**

**Appendix C Laboratory Reports**

**Appendix D Site Photographs**

**Appendix E Statement of Qualifications**

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P.O. Box 2040  
Santa Maria, CA 93457-2040  
P: (805) 346-1766  
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March 13, 2020

**Mr. Clayton Dragoo**  
**Fisher Construction Group**  
625 Fisher Lane  
Burlington, WA 98233

**Subject: Gas Leak Well Head Check , Cellar & Sump Investigation for Oxnard Property located in Oxnard, CA**

**Dear Clayton:**

Buena Resources, Inc. has prepared this Site Report to summarize the field data from the well head gas leakage check, the laboratory data from the ten (10) samples that were taken from the cellar investigation and the results of our attempt to locate any sumps associated with these two oil wells, W13-1A & W13-3. This field work was completed on February 27 & 28 and March 2, 2020.

## **1.0 SCOPE OF INVESTIGATION:**

The intent of this investigation was to: 1) uncover and check the oil well cap and outside annulus of the well casing for methane leakage with a field OVA (organic vapor analyzer, 2) excavate a 10' x 10' area around the well head to a depth of 8' to check for both soil contamination from the oil well operation and concrete remnants from the cellar, 3) provide surveyed coordinates and elevation of the well head and 4) investigate both well sites for the presence of an oil sump associated with the development of the oil wells.

## **2.0 GAS CHECK:**

The well head was checked for leakage by Buena Personnel on February 28, 2020. The well head was checked with a Thermo TVA 1000b OVA. All readings stayed steady at 4.0 ppm, which appears to be background for this immediate area. Testing was witnessed by Justin LaForge, DOGGR Staff Engineering Geologist.

**3.0 REMOVAL OF CELLAR CONCRETE:**

Both oil wells had the bottom of the cellar present along with some remnants of the side walls of the cellar. Approximately one (1) ten-yard roll-off bin of concrete debris was excavated and shipped to Will Adams concrete recycle facility located west of Santa Maria for recycle.

**4.0 SOIL SAMPLING OF CELLAR EXCAVATION**

**4.1 Oil Well W13-1A**

Oily sands and drilling mud were discovered around the well head during the excavation process. Five (5) 10-yard bins of the crude impacted material were loaded and shipped to Pacific Petroleum's yard, pending profile analysis of the material. Our intent is to profile this material for disposal at the Santa Maria Regional Landfill as non-hazardous petroleum impacted soil.

Samples were taken from each side wall and the excavation bottom of the oil well from visually clean sand. The side wall samples were taken approximately 2' above the bottom of the excavation. The samples were analyzed for full range hydrocarbons (TPH) by EPA method 8015 for gasoline, diesel and motor oil ranges, CAM metals and Volatile Organic Compounds (VOCs). Soil samples taken were grab samples which and were sealed, labeled, placed in a cooler with ice and shipped to the laboratory. Analyses were completed according to the various methods specified according to SW-846 guidelines.

**4.2 Oil Well W13-3**

No impacted soils were discovered around the well head during the excavation process. All material appeared to be clean sandy soil. Samples were taken from each side wall and the excavation bottom of the oil well from visually clean sand. The side wall samples were taken approximately 2' above the bottom of the excavation. The samples were analyzed for full range hydrocarbons (TPH) by EPA method 8015 for gasoline, diesel and motor oil ranges, CAM metals and Volatile Organic Compounds (VOCs). Soil samples taken were grab samples which and were sealed, labeled, placed in a cooler with ice and shipped to the laboratory. Analyses were completed according to the various methods specified according to SW-846 guidelines.

**4.2 Sampling Maintenance and Security**

Upon collection, the sample containers were labeled in accordance with EPA protocols and chilled pending transportation to OEC, a State certified analytical laboratory located in Santa

## **BUENARESOURCES**

Maria, California following chain-of-custody procedures. All samples were recorded on Chain-of-Custody forms in ink and transferred to the laboratory according to EPA SW-846 protocol. Any changes or corrections were made by drawing a line through the error and initialing and dating the correction, then entering the correct information.

### **5.0 SUMP INVESTIGATION**

Trenches were placed as shown on the attached figures. We utilized an aerial photograph from October 1959 to aid in our trench placement. This photo showed both pad areas oriented in an east-west direction with the likely location at the W3-1A Oil Well on the westside as the pumping unit and tanks appear to be located on the east side. Well W3-3 likely had the access on the west side so the east side was the primary focus. No indication of sump material was found in any of the trenches. It is possible that the farmer requested that the material be removed from the site, as it appears they had lemon or orange trees planted on the property.

### **6.0 DISCUSSION OF RESULTS:**

#### Gas Check

As noted previously, all OVA results were very low and did not appear to exceed the background level as noted outside the well area. Mr. Justin LaForge, DOGGR Engineering Geologist, supervised the gas check and inspected the well heads.

#### Soil Sampling Results for Well 13-1A

The excavation sidewalls and bottom did have crude oil impacted soils which were removed along with the concrete bottom of the cellar. Five 10-yard bins of impacted soils were removed and shipped to PPC's yard in Santa Maria, pending profiling to the Santa Maria Regional Landfill. All sampling results for Total Petroleum Hydrocarbons and Volatile Organic Compounds were non-detect or below the method detection limit (MDL). CAM metal results were well below the cleanup thresholds and appear to be typical for background levels in this area.

#### Soil Sampling Results for Well 13-3

The excavation sidewalls and bottom appeared to be visually clean sandy soil with no visible impacts. The sampling results indicated that the hydrocarbon levels were non-detectable for three of the five samples and with the bottom and west wall reporting diesel level hydrocarbons

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at 79 mg/kg and 70 mg/kg, respectively. These two reported levels are below the action level for this diesel range of hydrocarbons. All samples reported no Volatile Organic Compound levels in any of the samples. CAM results were all below action level and typical for background levels for this area.

### **7.0 CONCLUSIONS:**

The site was excavated at the two Oil Well locations, W3-1A & W3-3. Both wells were checked for leakage at the well cap and along the exposed casing with no leaks noted. The area around each well head was excavated to expose at least 3' of the well casing to inspect for contamination and concrete cellar remnants. Both wells had the concrete cellar bottoms present which were removed and shipped to a recycle facility in Santa Maria, California.

Well 13-1A had crude oil impacted soils around the well extending about 7' below the top of the well. This material was removed and shipped to PPC's yard pending profiling for disposal. Confirmation samples were taken from the sidewalls and bottom of the excavation which were all below action levels and the site was backfilled. Well 13-3 had visually clean sidewalls and bottom, so no soils were excavated for disposal. All confirmation samples were below action levels and the site was backfilled.

Both well locations were trenched to at least 7' in various locations as shown of the attached figures to check for the presence of a drilling sump. Despite numerous trenches, no indication of a drilling sump was found at either location. We speculated that the farmer may have requested their removal at the time of the drilling as this was an active orchard. Based on the above results, it is our opinion that there is no further work required at either of these sites.

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Thank you for the opportunity to be of service. If you have any questions, please contact this office at (805) 346-1766.

Sincerely,  
Buena Resources, Inc.



Daniel P. Ringstmeyer, P.E. (043540)  
Owner/Engineer

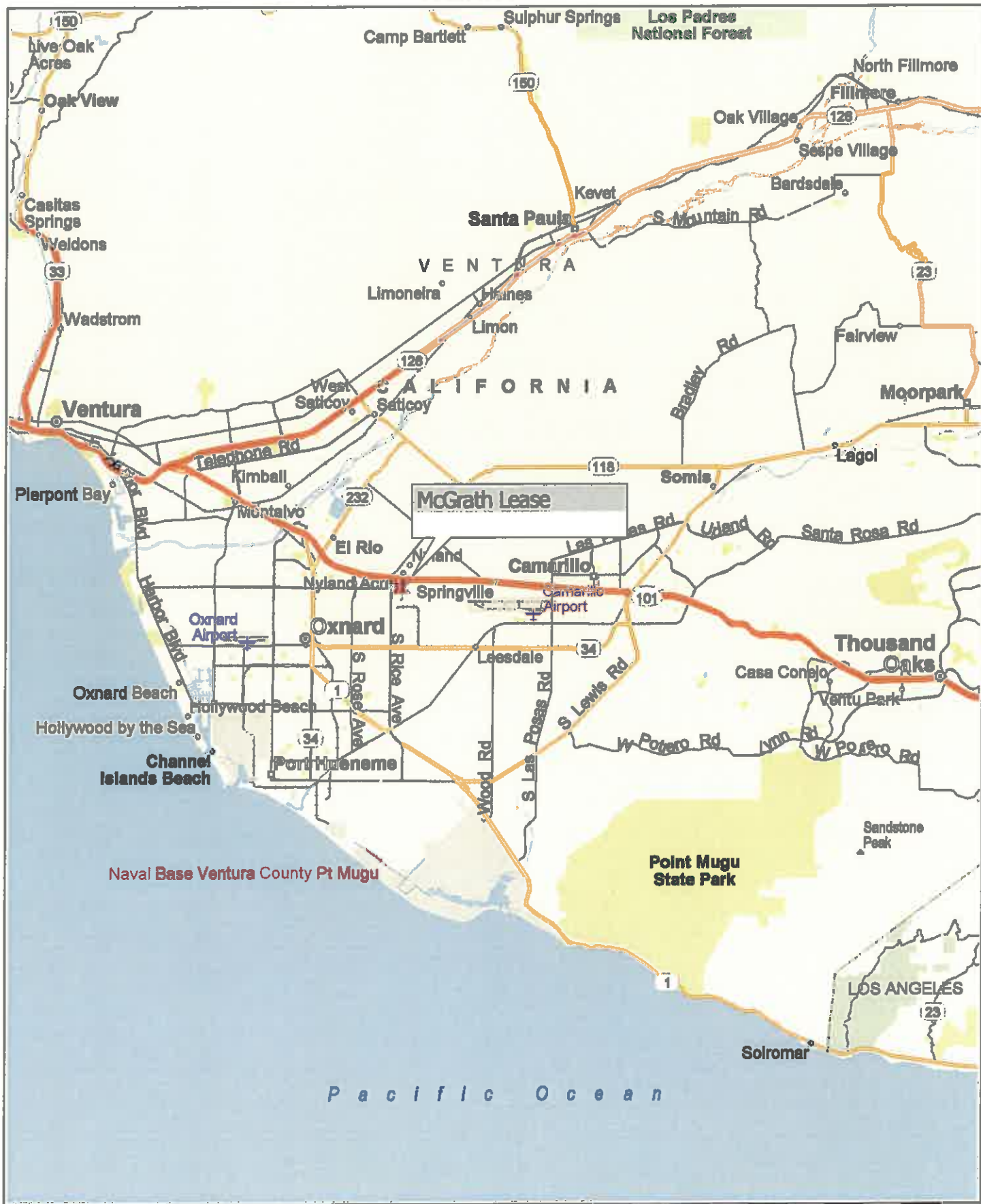


# **APPENDIX A**

**Site Map, Sampling Map & Misc. Figures**



# VICINITY MAP



0 ml 2 4 6 8 10

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 Certain mapping and direction data © 2012 NAVTEQ. All rights reserved. The Data for areas of Canada include information taken with permission from Canadian authorities, including: © Her Majesty the Queen in Right of Canada, © Queen's Printer for Ontario. NAVTEQ and NAVTEQ ON BOARD are trademarks of NAVTEQ. © 2012 Tele Atlas North America, Inc. All rights reserved. Tele Atlas and Tele Atlas North America are trademarks of Tele Atlas, Inc. © 2012 by Applied Geographic Solutions. All rights reserved. Portions © Copyright 2012 by Woodall Publications Corp. All rights reserved.



**Oxnard Property**  
**ASCS**  
**10/04/1959**

**buenaresources**

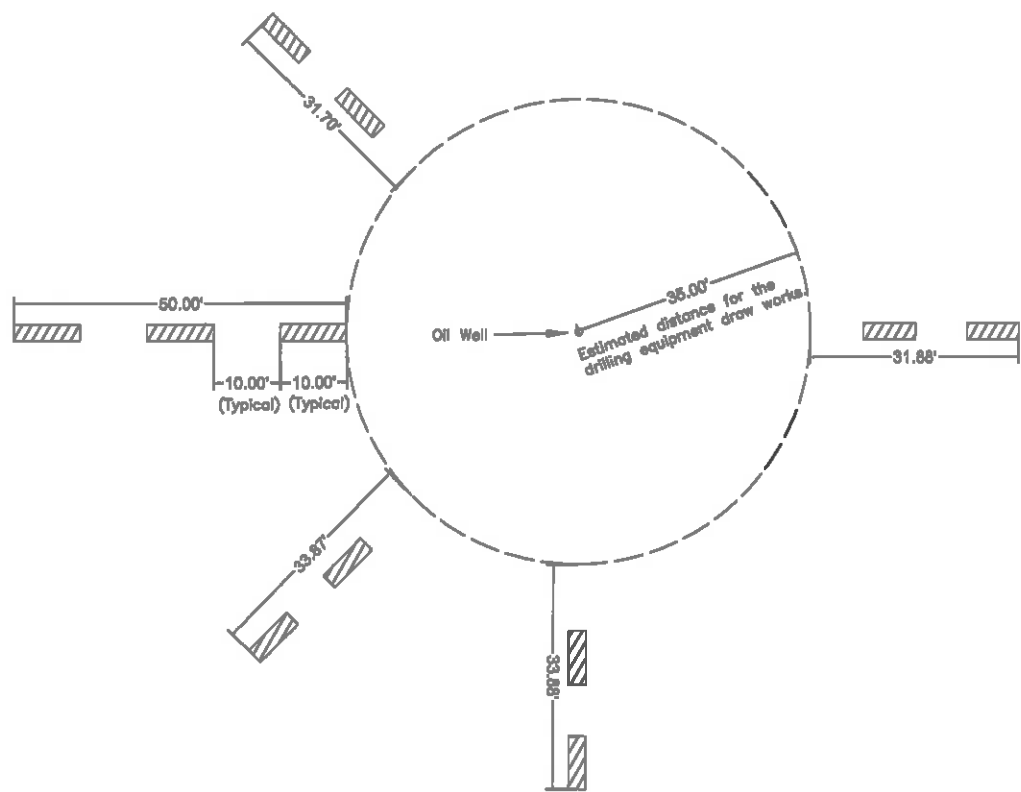
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# Site Aerial Map

DRAWN BY	DPR	DATE	3/2/2020	JOB NO.
CHECKED BY		SCALE		SHEET
				OF



C:\Users\Don\Documents\Drawings\2020\McGrath 13-1A.dwg 3-02-20 12:02:27 PM Don

**buenaresources**

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McGrath Site Trenches

Well W3-1A

DRAWN BY	DPR	DATE	3/2/20	JOB NO.
CHECKED BY		SCALE		SHEET
				OF



C:\Users\Den\Documents\Drawings\2020\McGrath\13-3.dwg 3-02-20 12:53:10 PM Den

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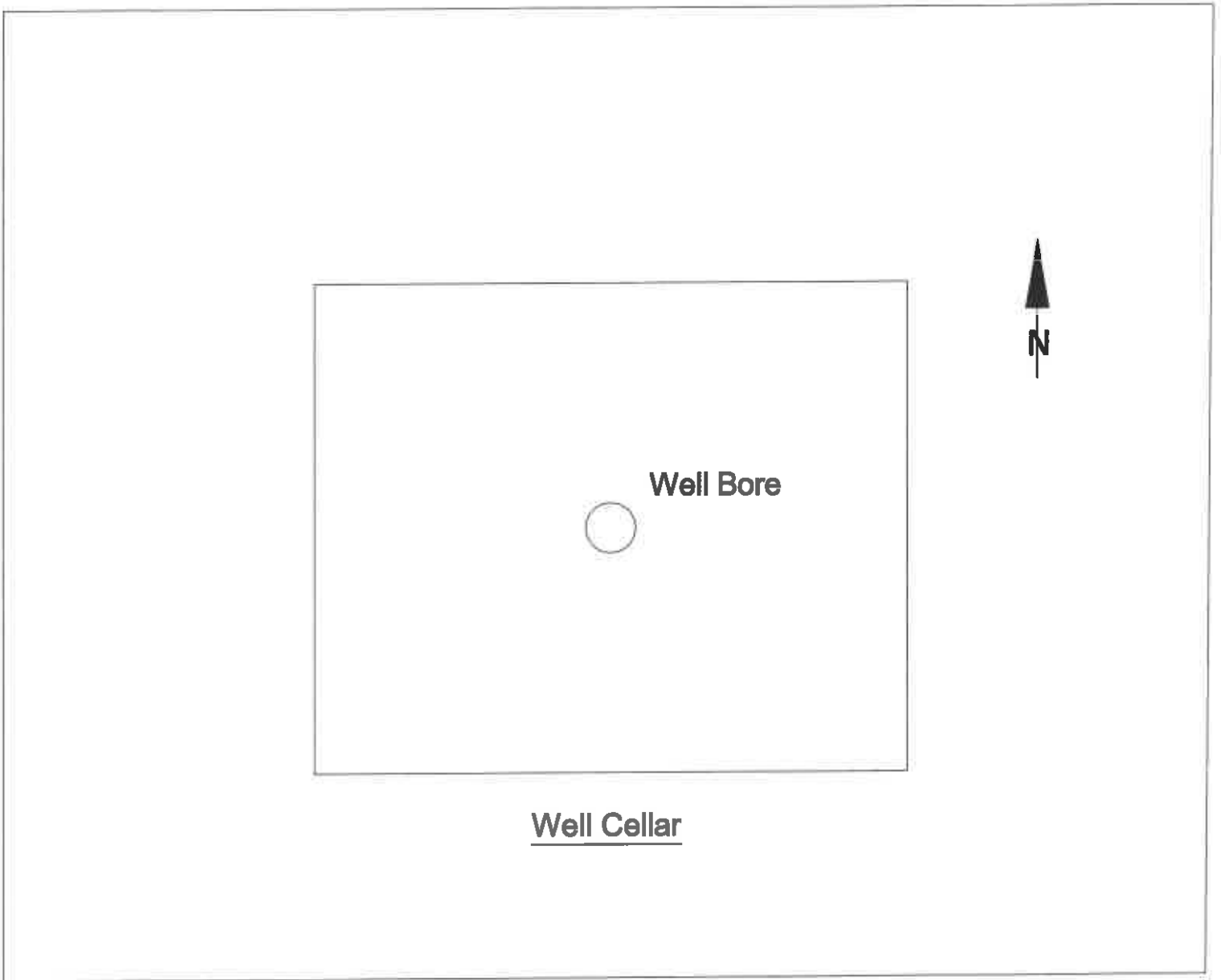
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McGrath Site Trenches

Well W3-3

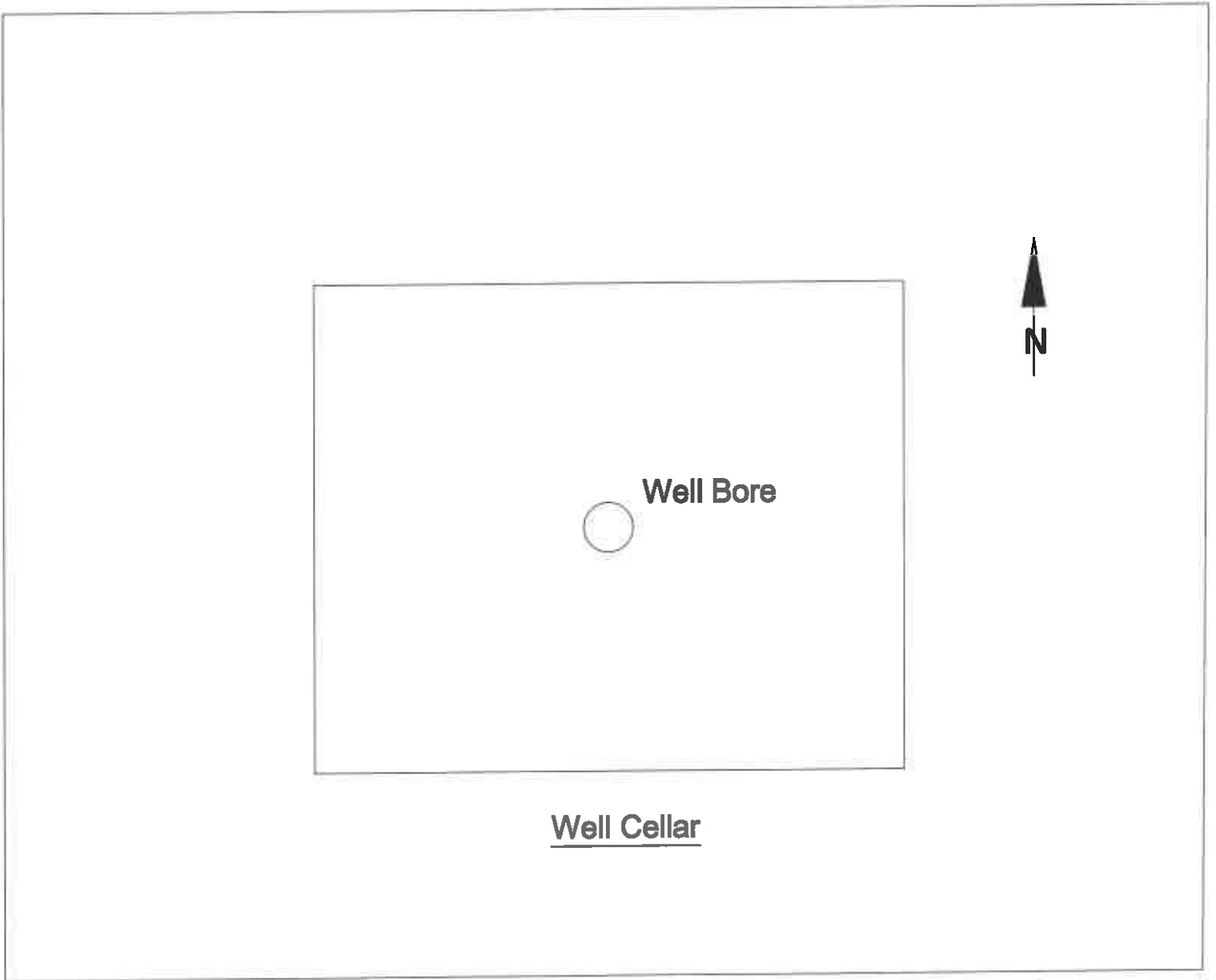
DRAWN BY	DATE	JOB NO.
DPR	3/2/20	
CHECKED BY	SCALE	SHEET
		OF



Lease: McGrath 13 Oil Well: McGrath 13-1A

Date: 02/28/2020

Notes: No Leaks Detected.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Lease: McGrath 13 Oil Well: McGrath 13-3

Date: 2/28/2020

Notes: No leaks detected.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Buena Resources, Inc.**  
**Oxnard McGrath Lease Oil Well Survey**  
**Mar-20**

<b>Shot</b>	<b>Northing</b>	<b>Westing</b>	<b>Elevation</b>	<b>Comments</b>
1	19090293	6216363	76.283	FD BM 7-79 RM 2
2	19087911	6216416	68.0223	FD 1.5IN IP W/TAG LS5983
3	19088253	6216761	63.9028	WELL 13-3
4	19088241	6216760	68.5388	NG
5	19088287	6217727	62.019	WELL 13-1A
6	19088279	6217741	66.5691	NG
7	19087877	6218252	66.0607	FD 2IN IP W/TAG LS 4755

# **APPENDIX B**

## **Laboratory Summary**



# Buena Resources, Inc.

## McGrath 13 Lease Cellar/Sump Project

### Laboratory Summary

February 28, 2020

Constituent	Cellar 13-1A					Cellar 13-3					CA Haz Levels TTLC/STLC	
	Bottom	East Wall	West Wall	South Wall	North Wall	Bottom	East Wall	West Wall	South Wall	North Wall		
Sample Depth												
Hydrocarbons-mg/kg												
TPH-Gasoline Range	<0.099	<0.099	<0.10	<0.10	<0.10	<0.10	<0.50	<0.099	<0.10	<0.10		
TPH-Diesel Range	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6	<7.6		100
TPH-Motor Oil Range	<40	<40	<40	<40	<40	79	<40	70	<40	<40		
Volatile Organic Compounds	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		
EPA 8260-ug/kg												
CAM Metals-mg/kg												
Antimony	<0.99	<0.98	<0.97	<0.96	<0.95	<0.96	<0.96	<0.98	<0.94	<0.97		500/15
Arsenic	9.6	3.2	3.3	2.4	3.3	6.8	4.6	5.8	4.4	7.1		500/5
Barium	76	69	81	36	59	230	110	800	230	240		10000/100
Beryllium	0.31	<0.24	0.31	<0.24	<0.24	<0.24	0.32	<0.25	<0.47	0.24		75/0.75
Cadmium	<0.15	<0.15	<0.15	<0.14	<0.14	<0.14	<0.14	<0.15	<0.24	<0.15		100/1
Chromium	13	8.2	10	4.2	8.1	9.5	12	8.7	9.2	10		2500/5
Cobalt	4.8	3.7	4.4	2	3	3.9	5.3	4	4.2	4.5		8000/80
Copper	8.3	8.7	10	3.5	8.6	19	12	13	9	9.1		2500/25
Lead	4.2	4.2	4.6	2.5	3.6	33	5.7	26	11	27		1000/5
Mercury	0.018	0.014	0.016	0.012	0.015	0.015	0.022	0.015	0.018	0.011		200.2; ESL 0.10 mg/kg
Molybdenum	4.2	2	1.8	1.4	2.1	0.8	2	0.84	1.1	1.2		3500/350
Nickel	13	11	13	5.9	8.8	10	16	10	11	12		2000/20
Selenium	<0.99	<0.98	<0.97	<0.96	<0.95	<0.96	<0.96	<0.98	<0.94	<0.97		100/1
Silver	<0.20	<0.20	<0.19	<0.19	<0.19	<0.19	<0.19	<0.20	<0.19	<0.19		500/5
Thallium	1.7	1.6	1.9	1.2	1.5	1.7	2.3	1.7	2	1.7		700/7
Vanadium	22	15	18	10	16	16	21	16	16	18		2400/24
Zinc	31	29	33	14	21	52	39	46	33	33		5000/250

# **APPENDIX C**

**Laboratory Reports & Chain of Custody Forms**

5 1 2 3 4



# Oilfield Environmental & Compliance, Inc.

Dan Ringstmeyer  
Buena Resources  
P.O. Box 2040  
Santa Maria, CA 93457-2040

Report: March 12, 2020 19:26

Work Order: 2001102

Project: Buena Resources  
Number: Vincente Lease

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on February 28, 2020 13:25 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

---

Meredith Sprister, Project Manager  
[msprister@oecusa.com](mailto:msprister@oecusa.com)



# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## SAMPLE SUMMARY

Sample ID	Laboratory ID	Client Matrix	Lab Matrix	Date Sampled	Date Received
Cellar W13-1A	2001102-01	Solid	Solid	02/27/20 14:16	02/28/20 13:25
13-3 Cellar-S.Wall	2001102-02	Solid	Solid	02/28/20 09:30	02/28/20 13:25
13-3 Cellar-Bottom	2001102-03	Solid	Solid	02/28/20 09:28	02/28/20 13:25
13-3 Cellar-W.Wall	2001102-04	Solid	Solid	02/28/20 09:33	02/28/20 13:25
13-3 Cellar-N.Wall	2001102-05	Solid	Solid	02/28/20 09:35	02/28/20 13:25
13-3 Cellar-E.Wall	2001102-06	Solid	Solid	02/28/20 09:32	02/28/20 13:25
13-1A Cellar-W.Wall	2001102-07	Solid	Solid	02/28/20 10:00	02/28/20 13:25
13-1A Cellar-E.Wall	2001102-08	Solid	Solid	02/28/20 10:02	02/28/20 13:25
13-1A Cellar-S.Wall	2001102-09	Solid	Solid	02/28/20 10:04	02/28/20 13:25
13-1A Cellar-N.Wall	2001102-10	Solid	Solid	02/28/20 10:05	02/28/20 13:25
13-1A Cellar-Bottom	2001102-11	Solid	Solid	02/28/20 11:28	02/28/20 13:25

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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## ANALYTICAL REPORT FOR SAMPLES 2001102-01 (Solid) Cellar W13-1A

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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### Total Metals by CVAA

<b>Mercury</b>	<b>0.013</b>	0.0081	0.075	mg/kg	1	BOB0869	02/29/20	03/03/20	EPA 7471A	J
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### Total Metals by ICP

<b>Antimony</b>	ND	0.91	2.3	mg/kg	1	BOB0854	02/28/20	03/03/20	EPA 6010B	
<b>Arsenic</b>	<b>2.5</b>	0.91	1.8	"	"	"	"	"	"	
<b>Barium</b>	<b>86</b>	0.46	0.91	"	"	"	"	"	"	
<b>Beryllium</b>	<b>0.23</b>	0.23	0.46	"	"	"	"	"	"	J
<b>Cadmium</b>	ND	0.14	0.23	"	"	"	"	"	"	
<b>Chromium</b>	<b>9.4</b>	0.23	0.46	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.0</b>	0.23	0.46	"	"	"	"	"	"	
<b>Copper</b>	<b>9.3</b>	0.46	0.91	"	"	"	"	"	"	
<b>Lead</b>	<b>4.3</b>	0.27	0.46	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>2.3</b>	0.23	0.46	"	"	"	"	"	"	
<b>Nickel</b>	<b>12</b>	0.091	0.23	"	"	"	"	"	"	
<b>Selenium</b>	ND	0.91	1.8	"	"	"	"	"	"	
<b>Silver</b>	ND	0.18	0.46	"	"	"	"	"	"	
<b>Thallium</b>	<b>1.2</b>	0.46	0.91	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	0.46	0.91	"	"	"	"	"	"	
<b>Zinc</b>	<b>30</b>	0.46	0.91	"	"	"	"	"	"	

### General Chemistry Parameters by EPA or APHA Standard Methods

<b>pH @ 25 C</b>	<b>7.98</b>	0.05	0.10	pH Units	1	BOC0007	03/02/20	03/02/20	EPA 9045	HT-pH
<b>pH Sample Temperature During Analysis</b>	<b>24</b>	1.0	1.0	°C	"	"	"	"	EPA 170.1/SM 2550B	
<b>Cyanide, reactive</b>	ND	0.167	0.500	mg/kg	"	BOC0008	03/02/20	03/02/20	SW846. 7.3	
<b>Sulfide, reactive</b>	ND	20.0	40.0	"	"	BOC0011	03/02/20	03/02/20	SW 846 7.3	
<b>Flashpoint</b>	>212	72	72	°F	"	BOC0201	03/09/20	03/09/20	EPA 1010M	

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## 2001102-01 (Solid) Cellar W13-1A

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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### Volatile Organic TPH by GC/FID

<b>TPH Gasoline (C5-C12)</b>	<b>34</b>	0.96	4.8	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	<b>D-04</b>
<i>Surrogate: 4-Bromofluorobenzene</i>			177 %	(10 - 193)		"	"	"	"	

### DIWET Semi-Volatile Organic TPH by GC/FID

<b>TPH Diesel (C13-C22)</b>	<b>1.2</b>	0.091	0.11	mg/L	1	B0C0207	03/09/20	03/10/20	DIWET/EPA 8015M	
<b>TPH Motor Oil (C23-C40)</b>	<b>0.24</b>	0.11	0.22	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			95 %	(45 - 143)		"	"	"	"	

### Semi-Volatile Organic TPH by GC/FID

<b>TPH Diesel (C13-C22)</b>	<b>240</b>	7.5	9.9	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	<b>D-04</b>
<b>TPH Motor Oil (C23-C40)</b>	<b>140</b>	40	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			107 %	(69 - 120)		"	"	"	"	

### DIWET/STLC/ZHE Volatile Organic Compounds by GC/FID

<b>TPH Gasoline (C5-C12)</b>	<b>730</b>	30	50	ug/L	1	B0C0069	03/04/20	03/04/20	DIWET/ZHE-EPA 8015M	<b>D-04</b>
<i>Surrogate: 4-Bromofluorobenzene</i>			108 %	(57 - 141)		"	"	"	"	

### Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.50	1.2	mg/kg	1000	B0C0071	03/04/20	03/04/20	EPA 8260B	
Bromobenzene	ND	0.50	1.2	"	"	"	"	"	"	
Bromochloromethane	ND	0.50	1.2	"	"	"	"	"	"	
Bromodichloromethane	ND	0.50	1.2	"	"	"	"	"	"	
Bromoform	ND	0.50	1.2	"	"	"	"	"	"	
Bromomethane	ND	0.50	1.2	"	"	"	"	"	"	
n-Butylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	1.2	"	"	"	"	"	"	
Chlorobenzene	ND	0.50	1.2	"	"	"	"	"	"	
Chloroethane	ND	0.50	1.2	"	"	"	"	"	"	
Chloroform	ND	0.50	1.2	"	"	"	"	"	"	
Chloromethane	ND	0.50	1.2	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.50	1.2	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.50	1.2	"	"	"	"	"	"	
Dibromochloromethane	ND	0.50	1.2	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.50	1.2	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	1.2	"	"	"	"	"	"	

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Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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### 2001102-01 (Solid) Cellar W13-1A

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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#### Volatile Organic Compounds by GC/MS (Continued)

EK-07

Dibromomethane	ND	0.50	1.2	mg/kg	1000	B0C0071	03/04/20	03/04/20	EPA 8260B	
1,2-Dichlorobenzene	ND	0.50	1.2	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.50	1.2	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.50	1.2	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	1.2	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	1.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	1.2	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	1.2	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	1.2	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	1.2	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.50	1.2	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.50	1.2	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.50	1.2	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.50	1.2	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	1.2	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	1.2	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.50	1.2	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.50	1.2	"	"	"	"	"	"	
Isopropylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
Methylene chloride	ND	0.50	1.2	"	"	"	"	"	"	
Methyl-t-butyl ether	ND	0.50	1.2	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.58</b>	0.50	1.2	"	"	"	"	"	"	
n-Propylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
Styrene	ND	0.50	1.2	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	1.2	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	1.2	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.50	1.2	"	"	"	"	"	"	
Toluene	ND	0.50	1.2	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.50	1.2	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.50	1.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	1.2	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	1.2	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.50	1.2	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.50	1.2	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.50	1.2	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	1.2	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	1.2	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-01 (Solid)**  
**Cellar W13-1A**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

R-07

Vinyl chloride	ND	0.50	1.2	mg/kg	1000	B0C0071	03/04/20	03/04/20	EPA 8260B	
Xylenes (total)	ND	0.50	1.2	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>			98 %	(70 - 142)		"	"	"	"	
<i>Surrogate: Toluene-d8</i>			99 %	(76 - 123)		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>			101 %	(81 - 120)		"	"	"	"	

**Organochlorine Pesticides by GC/ECD/ECD**

R-05

alpha-BHC	ND	0.015	0.030	mg/kg	10	B0C0143	03/05/20	03/06/20	EPA 8081A	
alpha-Chlordane	ND	0.015	0.030	"	"	"	"	"	"	
Aldrin	ND	0.015	0.030	"	"	"	"	"	"	
beta-BHC	ND	0.015	0.030	"	"	"	"	"	"	
delta-BHC	ND	0.015	0.030	"	"	"	"	"	"	
4,4'-DDD	ND	0.015	0.030	"	"	"	"	"	"	CCHI
4,4'-DDE	ND	0.015	0.030	"	"	"	"	"	"	
4,4'-DDT	ND	0.016	0.030	"	"	"	"	"	"	CCFL 8081
Dieldrin	ND	0.015	0.030	"	"	"	"	"	"	
Endosulfan I	ND	0.017	0.030	"	"	"	"	"	"	
Endosulfan II	ND	0.015	0.030	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.015	0.030	"	"	"	"	"	"	
Endrin	ND	0.015	0.030	"	"	"	"	"	"	
Endrin aldehyde	ND	0.015	0.030	"	"	"	"	"	"	
Endrin ketone	ND	0.016	0.030	"	"	"	"	"	"	
gamma-BHC	ND	0.015	0.030	"	"	"	"	"	"	
gamma-Chlordane	ND	0.015	0.030	"	"	"	"	"	"	
Heptachlor	ND	0.015	0.030	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.015	0.030	"	"	"	"	"	"	
Methoxychlor	ND	0.015	0.030	"	"	"	"	"	"	CCFL 8081
Chlordane (tech)	ND	0.10	0.20	"	"	"	"	"	"	
Toxaphene	ND	0.16	0.20	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>			124 %	(10 - 194)		"	"	"	"	
<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene</i>			77 %	(10 - 154)		"	"	"	"	

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Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-01 (Solid)  
Cellar W13-1A**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Polychlorinated Biphenyls by GC/ECD**

**C-01**

PCB-1016	ND	0.010	0.020	mg/kg	1	B0C0114	03/05/20	03/07/20	EPA 8082	
PCB-1221	ND	0.010	0.020	"	"	"	"	"	"	
PCB-1232	ND	0.010	0.020	"	"	"	"	"	"	
PCB-1242	ND	0.010	0.020	"	"	"	"	"	"	
PCB-1248	ND	0.010	0.020	"	"	"	"	"	"	
PCB-1254	ND	0.010	0.020	"	"	"	"	"	"	
PCB-1260	ND	0.010	0.020	"	"	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>			85 %	(25 - 162)		"	"	"	"	
<i>Surrogate: 2,4,5,6 Tetrachloro-m-xylene</i>			70 %	(20 - 138)		"	"	"	"	

**Semi-Volatile Organic Compounds by GC/MS**

**R-05**

Acenaphthene	ND	1.0	2.0	mg/kg	20	B0C0070	03/04/20	03/09/20	EPA 8270C	
Acenaphthylene	ND	1.0	2.0	"	"	"	"	"	"	
Aniline	ND	1.2	2.0	"	"	"	"	"	"	
Anthracene	ND	1.0	2.0	"	"	"	"	"	"	
Azobenzene	ND	1.0	2.0	"	"	"	"	"	"	
Benz (a) anthracene	ND	1.0	2.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	1.0	2.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	1.0	2.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	1.0	2.0	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1.8	2.0	"	"	"	"	"	"	
Benzoic acid	ND	1.0	2.0	"	"	"	"	"	"	
Benzyl alcohol	ND	1.0	2.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	1.0	2.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	1.0	2.0	"	"	"	"	"	"	
bis(2-Chloro-1-methylethyl)ether	ND	1.2	2.0	"	"	"	"	"	"	
Bis(2-ethylhexyl) phthalate	ND	1.0	2.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	1.0	2.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	1.0	2.0	"	"	"	"	"	"	
4-Chloroaniline	ND	1.0	2.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	1.0	2.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	1.0	2.0	"	"	"	"	"	"	
Chrysene	ND	1.0	2.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	1.2	2.0	"	"	"	"	"	"	
Dibenzofuran	ND	1.0	2.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	1.0	2.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.4	2.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.6	2.0	"	"	"	"	"	"	

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Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## 2001102-01 (Solid) Cellar W13-1A

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Semi-Volatile Organic Compounds by GC/MS (Continued)</b>										
1,4-Dichlorobenzene	ND	1.4	2.0	mg/kg	20	BOC0070	03/04/20	03/09/20	EPA 8270C	
3,3'-Dichlorobenzidine	ND	4.0	10	"	"	"	"	"	"	
Diethyl phthalate	ND	1.6	2.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	1.0	2.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	1.2	2.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1.0	2.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	1.0	2.0	"	"	"	"	"	"	
Fluoranthene	ND	1.0	2.0	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.50</b>	0.050	0.10	"	1	"	"	03/09/20	"	
Hexachlorobenzene	ND	1.0	2.0	"	20	"	"	03/09/20	"	
Hexachlorobutadiene	ND	1.2	2.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1.0	2.0	"	"	"	"	"	"	
Hexachloroethane	ND	1.6	2.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	1.2	2.0	"	"	"	"	"	"	
Isophorone	ND	1.0	2.0	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>2.2</b>	1.0	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	2.0	"	"	"	"	"	"	
2-Nitroaniline	ND	1.0	2.0	"	"	"	"	"	"	
3-Nitroaniline	ND	1.0	2.0	"	"	"	"	"	"	
4-Nitroaniline	ND	1.2	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	1.0	2.0	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	1.4	2.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.0	2.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	1.0	2.0	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>0.27</b>	0.050	0.10	"	1	"	"	03/09/20	"	
Pyrene	ND	1.0	2.0	"	20	"	"	03/09/20	"	
Carbazole	ND	1.0	2.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.4	2.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol (Parachlorometa cresol)	ND	1.0	2.0	"	"	"	"	"	"	
2-Chlorophenol	ND	1.2	2.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1.0	2.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1.0	2.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1.9	2.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1.9	2.0	"	"	"	"	"	"	
2-Methylphenol	ND	1.4	2.0	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	1.2	2.0	"	"	"	"	"	"	
2-Nitrophenol	ND	1.2	2.0	"	"	"	"	"	"	

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Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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## 2001102-01 (Solid) Cellar W13-1A

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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### Semi-Volatile Organic Compounds by GC/MS (Continued)

R-05

4-Nitrophenol	ND	1.0	2.0	mg/kg	20	B0C0070	03/04/20	03/09/20	EPA 8270C	
Pentachlorophenol	ND	1.0	2.0	"	"	"	"	"	"	"
Phenol	ND	1.2	2.0	"	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	1.0	2.0	"	"	"	"	"	"	"
Pyridine	ND	1.0	2.0	"	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	1.0	2.0	"	"	"	"	"	"	"
Surrogate: 2-Fluorophenol			71 %	(10 - 156)		"	"	"	"	"
Surrogate: Phenol-d5			59 %	(10 - 167)		"	"	"	"	"
Surrogate: Nitrobenzene-d5			72 %	(10 - 182)		"	"	"	"	"
Surrogate: 2-Fluorobiphenyl			51 %	(10 - 216)		"	"	"	"	"
Surrogate: 2,4,6-Tribromophenol			76 %	(10 - 160)		"	"	"	"	"
Surrogate: p-Terphenyl-d14			99 %	(12 - 180)		"	"	"	"	"

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Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
**2001102**  
03/12/2020 19:26

**2001102-02 (Solid)**  
**13-3 Cellar-S.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.018</b>	0.0096	0.088	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

<b>Antimony</b>	ND	0.94	2.4	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
<b>Arsenic</b>	<b>4.4</b>	0.94	1.9	"	"	"	"	"	"	"
<b>Barium</b>	<b>230</b>	0.47	0.94	"	"	"	"	"	"	"
<b>Beryllium</b>	ND	0.24	0.47	"	"	"	"	"	"	"
<b>Cadmium</b>	ND	0.14	0.24	"	"	"	"	"	"	"
<b>Chromium</b>	<b>9.2</b>	0.24	0.47	"	"	"	"	"	"	"
<b>Cobalt</b>	<b>4.2</b>	0.24	0.47	"	"	"	"	"	"	"
<b>Copper</b>	<b>9.0</b>	0.47	0.94	"	"	"	"	"	"	"
<b>Lead</b>	<b>11</b>	0.28	0.47	"	"	"	"	"	"	"
<b>Molybdenum</b>	<b>1.1</b>	0.24	0.47	"	"	"	"	"	"	"
<b>Nickel</b>	<b>11</b>	0.094	0.24	"	"	"	"	"	"	"
<b>Selenium</b>	ND	0.94	1.9	"	"	"	"	"	"	"
<b>Silver</b>	ND	0.19	0.47	"	"	"	"	"	"	"
<b>Thallium</b>	<b>2.0</b>	0.47	0.94	"	"	"	"	"	"	"
<b>Vanadium</b>	<b>16</b>	0.47	0.94	"	"	"	"	"	"	"
<b>Zinc</b>	<b>33</b>	0.47	0.94	"	"	"	"	"	"	"

**Volatile Organic TPH by GC/FID**

<b>TPH Gasoline (C5-C12)</b>	ND	0.10	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
<i>Surrogate: 4-Bromofluorobenzene</i>			93 %	(10 - 193)		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

<b>TPH Diesel (C13-C22)</b>	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
<b>TPH Motor Oil (C23-C40)</b>	ND	40	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			99 %	(69 - 120)		"	"	"	"	

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Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-02 (Solid)**  
**13-3 Cellar-S.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS**

Benzene	ND	0.0020	0.0050	mg/kg	1	BOC0072	03/04/20	03/05/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
**2001102**  
 03/12/2020 19:26

**2001102-02 (Solid)**  
**13-3 Cellar-S.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	B0C0072	03/04/20	03/05/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			94 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			98 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			102 %	(81 - 120)		"	"	"	"	

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
**2001102**  
03/12/2020 19:26

**2001102-03 (Solid)**  
**13-3 Cellar-Bottom**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.015</b>	0.0089	0.082	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

Antimony	ND	0.96	2.4	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
Arsenic	6.8	0.96	1.9	"	"	"	"	"	"	"
Barium	230	0.48	0.96	"	"	"	"	"	"	"
Beryllium	ND	0.24	0.48	"	"	"	"	"	"	"
Cadmium	ND	0.14	0.24	"	"	"	"	"	"	"
Chromium	9.5	0.24	0.48	"	"	"	"	"	"	"
Cobalt	3.9	0.24	0.48	"	"	"	"	"	"	"
Copper	19	0.48	0.96	"	"	"	"	"	"	"
Lead	33	0.29	0.48	"	"	"	"	"	"	"
Molybdenum	0.80	0.24	0.48	"	"	"	"	"	"	"
Nickel	10	0.096	0.24	"	"	"	"	"	"	"
Selenium	ND	0.96	1.9	"	"	"	"	"	"	"
Silver	ND	0.19	0.48	"	"	"	"	"	"	"
Thallium	1.7	0.48	0.96	"	"	"	"	"	"	"
Vanadium	16	0.48	0.96	"	"	"	"	"	"	"
Zinc	52	0.48	0.96	"	"	"	"	"	"	"

**Volatile Organic TPH by GC/FID**

TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
Surrogate: 4-Bromofluorobenzene			94 %	( 10 - 193 )		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
TPH Motor Oil (C23-C40)	79	40	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl			101 %	( 69 - 120 )		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

## 2001102-03 (Solid) 13-3 Cellar-Bottom

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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### Volatile Organic Compounds by GC/MS

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	0.0050	mg/kg	1	BOC0072	03/04/20	03/05/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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.

307 Roemer Way, Suite 300, Santa Maria, CA 93454

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-03 (Solid)  
13-3 Cellar-Bottom**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	B0C0072	03/04/20	03/05/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			94 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			98 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			103 %	(81 - 120)		"	"	"	"	

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## 2001102-04 (Solid) 13-3 Cellar-W.Wall

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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### Total Metals by CVAA

<b>Mercury</b>	<b>0.015</b>	0.0088	0.082	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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### Total Metals by ICP

<b>Antimony</b>	ND	0.98	2.5	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
<b>Arsenic</b>	<b>5.8</b>	0.98	2.0	"	"	"	"	"	"	
<b>Barium</b>	<b>800</b>	0.49	0.98	"	"	"	"	"	"	
<b>Beryllium</b>	ND	0.25	0.49	"	"	"	"	"	"	
<b>Cadmium</b>	ND	0.15	0.25	"	"	"	"	"	"	
<b>Chromium</b>	<b>8.7</b>	0.25	0.49	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.0</b>	0.25	0.49	"	"	"	"	"	"	
<b>Copper</b>	<b>13</b>	0.49	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>26</b>	0.29	0.49	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>0.84</b>	0.25	0.49	"	"	"	"	"	"	
<b>Nickel</b>	<b>10</b>	0.098	0.25	"	"	"	"	"	"	
<b>Selenium</b>	ND	0.98	2.0	"	"	"	"	"	"	
<b>Silver</b>	ND	0.20	0.49	"	"	"	"	"	"	
<b>Thallium</b>	<b>1.7</b>	0.49	0.98	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	0.49	0.98	"	"	"	"	"	"	
<b>Zinc</b>	<b>46</b>	0.49	0.98	"	"	"	"	"	"	

### Volatile Organic TPH by GC/FID

TPH Gasoline (C5-C12)	ND	0.099	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
<i>Surrogate: 4-Bromofluorobenzene</i>			92 %	(10 - 193)		"	"	"	"	

### Semi-Volatile Organic TPH by GC/FID

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
TPH Motor Oil (C23-C40)	<b>70</b>	40	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			98 %	(69 - 120)		"	"	"	"	

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincents Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-04 (Solid)  
13-3 Cellar-W.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	0.0049	mg/kg	1	BOC0072	03/04/20	03/05/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0049	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0049	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0049	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0049	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0049	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0049	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0049	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0049	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0049	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0049	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0049	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0049	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0049	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0049	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0049	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0049	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0049	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0049	"	"	"	"	"	"	

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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**2001102-04 (Solid)**  
**13-3 Cellar-W.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0049	mg/kg	1	B0C0072	03/04/20	03/05/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0049	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0049	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0049	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0049	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0049	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0049	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0049	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0049	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0049	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			95 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			99 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			102 %	(81 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincents Lease Project Manager: Dan Ringstmeier	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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**2001102-05 (Solid)  
13-3 Cellar-N.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.011</b>	0.0090	0.083	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

Antimony	ND	0.97	2.4	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
Arsenic	7.1	0.97	1.9	"	"	"	"	"	"	
Barium	240	0.48	0.97	"	"	"	"	"	"	
Beryllium	0.24	0.24	0.48	"	"	"	"	"	"	J
Cadmium	ND	0.15	0.24	"	"	"	"	"	"	
Chromium	10	0.24	0.48	"	"	"	"	"	"	
Cobalt	4.5	0.24	0.48	"	"	"	"	"	"	
Copper	9.1	0.48	0.97	"	"	"	"	"	"	
Lead	27	0.29	0.48	"	"	"	"	"	"	
Molybdenum	1.2	0.24	0.48	"	"	"	"	"	"	
Nickel	12	0.097	0.24	"	"	"	"	"	"	
Selenium	ND	0.97	1.9	"	"	"	"	"	"	
Silver	ND	0.19	0.48	"	"	"	"	"	"	
Thallium	1.7	0.48	0.97	"	"	"	"	"	"	
Vanadium	18	0.48	0.97	"	"	"	"	"	"	
Zinc	33	0.48	0.97	"	"	"	"	"	"	

**Volatile Organic TPH by GC/FID**

TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
Surrogate: 4-Bromofluorobenzene			92 %	(10 - 193)		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
TPH Motor Oil (C23-C40)	ND	40	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl			102 %	(69 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vicente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-05 (Solid)**  
**13-3 Cellar-N.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	0.0050	mg/kg	1	BOC0072	03/04/20	03/05/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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307 Roemer Way, Suite 300, Santa Maria, CA 93454

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vicente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-05 (Solid)**  
**13-3 Cellar-N.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	BOC0072	03/04/20	03/05/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			93 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			99 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			102 %	(81 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vicente Lease  
 Project Manager: Dan Ringstmeier

WO & Reported:  
 2001102  
 03/12/2020 19:26

## 2001102-06 (Solid) 13-3 Cellar-E-Wall

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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### Total Metals by CVAA

Mercury	0.022	0.0092	0.085	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	
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### Total Metals by ICP

Antimony	ND	0.95	2.4	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
Arsenic	4.6	0.95	1.9	"	"	"	"	"	"	
Barium	110	0.48	0.95	"	"	"	"	"	"	
Beryllium	0.32	0.24	0.48	"	"	"	"	"	"	J
Cadmium	ND	0.14	0.24	"	"	"	"	"	"	
Chromium	12	0.24	0.48	"	"	"	"	"	"	
Cobalt	5.3	0.24	0.48	"	"	"	"	"	"	
Copper	12	0.48	0.95	"	"	"	"	"	"	
Lead	5.7	0.29	0.48	"	"	"	"	"	"	
Molybdenum	2.0	0.24	0.48	"	"	"	"	"	"	
Nickel	16	0.095	0.24	"	"	"	"	"	"	
Selenium	ND	0.95	1.9	"	"	"	"	"	"	
Silver	ND	0.19	0.48	"	"	"	"	"	"	
Thallium	2.3	0.48	0.95	"	"	"	"	"	"	
Vanadium	21	0.48	0.95	"	"	"	"	"	"	
Zinc	39	0.48	0.95	"	"	"	"	"	"	

### Volatile Organic TPH by GC/FID

TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
Surrogate: 4-Bromofluorobenzene			89 %	(10 - 193)		"	"	"	"	

### Semi-Volatile Organic TPH by GC/FID

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
TPH Motor Oil (C23-C40)	ND	40	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl			103 %	(69 - 120)		"	"	"	"	

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.





# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeier	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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**2001102-06 (Solid)**  
**13-3 Cellar-E.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS**

Benzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-06 (Solid)**  
**13-3 Cellar-E.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	BOC0166	03/06/20	03/06/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	"
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	"
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	"
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	"
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	"
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	"
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	"
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	"
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	"
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	"
Surrogate: Dibromofluoromethane			94 %	(70 - 142)		"	"	"	"	"
Surrogate: Toluene-d8			95 %	(76 - 123)		"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			97 %	(81 - 120)		"	"	"	"	"

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-07 (Solid)  
13-1A Cellar-W.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.016</b>	0.010	0.096	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

Antimony	ND	0.97	2.4	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
Arsenic	3.3	0.97	1.9	"	"	"	"	"	"	
Barium	81	0.48	0.97	"	"	"	"	"	"	
Beryllium	0.31	0.24	0.48	"	"	"	"	"	"	J
Cadmium	ND	0.15	0.24	"	"	"	"	"	"	
Chromium	10	0.24	0.48	"	"	"	"	"	"	
Cobalt	4.4	0.24	0.48	"	"	"	"	"	"	
Copper	10	0.48	0.97	"	"	"	"	"	"	
Lead	4.6	0.29	0.48	"	"	"	"	"	"	
Molybdenum	1.8	0.24	0.48	"	"	"	"	"	"	
Nickel	13	0.097	0.24	"	"	"	"	"	"	
Selenium	ND	0.97	1.9	"	"	"	"	"	"	
Silver	ND	0.19	0.48	"	"	"	"	"	"	
Thallium	1.9	0.48	0.97	"	"	"	"	"	"	
Vanadium	18	0.48	0.97	"	"	"	"	"	"	
Zinc	33	0.48	0.97	"	"	"	"	"	"	

**Volatile Organic TPH by GC/FID**

TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
Surrogate: 4-Bromofluorobenzene			91 %	(10 - 193)		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
TPH Motor Oil (C23-C40)	ND	40	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl			102 %	(69 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincents Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-07 (Solid)**  
**13-1A Cellar-W.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeier	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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**2001102-07 (Solid)**  
**13-1A Cellar-W.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	BOC0166	03/06/20	03/06/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			92 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			95 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			91 %	(81 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
**2001102**  
03/12/2020 19:26

**2001102-08 (Solid)**  
**13-1A Cellar-E.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.014</b>	0.010	0.096	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

<b>Antimony</b>	ND	0.98	2.4	mg/kg	1	B0B0854	02/28/20	03/03/20	EPA 6010B	
<b>Arsenic</b>	<b>3.2</b>	0.98	2.0	"	"	"	"	"	"	
<b>Barium</b>	<b>69</b>	0.49	0.98	"	"	"	"	"	"	
<b>Beryllium</b>	ND	0.24	0.49	"	"	"	"	"	"	
<b>Cadmium</b>	ND	0.15	0.24	"	"	"	"	"	"	
<b>Chromium</b>	<b>8.2</b>	0.24	0.49	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.7</b>	0.24	0.49	"	"	"	"	"	"	
<b>Copper</b>	<b>8.7</b>	0.49	0.98	"	"	"	"	"	"	
<b>Lead</b>	<b>4.2</b>	0.29	0.49	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>2.0</b>	0.24	0.49	"	"	"	"	"	"	
<b>Nickel</b>	<b>11</b>	0.098	0.24	"	"	"	"	"	"	
<b>Selenium</b>	ND	0.98	2.0	"	"	"	"	"	"	
<b>Silver</b>	ND	0.20	0.49	"	"	"	"	"	"	
<b>Thallium</b>	<b>1.6</b>	0.49	0.98	"	"	"	"	"	"	
<b>Vanadium</b>	<b>15</b>	0.49	0.98	"	"	"	"	"	"	
<b>Zinc</b>	<b>29</b>	0.49	0.98	"	"	"	"	"	"	

**Volatile Organic TPH by GC/FID**

TPH Gasoline (C5-C12)	ND	0.099	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
<i>Surrogate: 4-Bromofluorobenzene</i>			91 %	( 10 - 193 )		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0067	03/04/20	03/04/20	EPA 8015M	
TPH Motor Oil (C23-C40)	ND	40	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			100 %	( 69 - 120 )		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-08 (Solid)  
13-1A Cellar-E-Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS**

Benzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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.



# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincente Lease  
 Project Manager: Dan Ringsmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-08 (Solid)**  
**13-1A Cellar-E. Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			93 %	( 70 - 142 )		"	"	"	"	
Surrogate: Toluene-d8			97 %	( 76 - 123 )		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			100 %	( 81 - 120 )		"	"	"	"	

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.





# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

**2001102-09 (Solid)**  
**13-1A Cellar-S.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.012</b>	0.0097	0.090	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

<b>Antimony</b>	ND	0.96	2.4	mg/kg	1	B0B0873	02/29/20	03/04/20	EPA 6010B	
<b>Arsenic</b>	<b>2.4</b>	0.96	1.9	"	"	"	"	"	"	"
<b>Barium</b>	<b>36</b>	0.48	0.96	"	"	"	"	"	"	"
<b>Beryllium</b>	ND	0.24	0.48	"	"	"	"	"	"	"
<b>Cadmium</b>	ND	0.14	0.24	"	"	"	"	"	"	"
<b>Chromium</b>	<b>4.2</b>	0.24	0.48	"	"	"	"	"	"	"
<b>Cobalt</b>	<b>2.0</b>	0.24	0.48	"	"	"	"	"	"	"
<b>Copper</b>	<b>3.5</b>	0.48	0.96	"	"	"	"	"	"	"
<b>Lead</b>	<b>2.5</b>	0.29	0.48	"	"	"	"	"	"	"
<b>Molybdenum</b>	<b>1.4</b>	0.24	0.48	"	"	"	"	"	"	"
<b>Nickel</b>	<b>5.9</b>	0.096	0.24	"	"	"	"	"	"	"
<b>Selenium</b>	ND	0.96	1.9	"	"	"	"	"	"	"
<b>Silver</b>	ND	0.19	0.48	"	"	"	"	"	"	"
<b>Thallium</b>	<b>1.2</b>	0.48	0.96	"	"	"	"	"	"	"
<b>Vanadium</b>	<b>10</b>	0.48	0.96	"	"	"	"	"	"	"
<b>Zinc</b>	<b>14</b>	0.48	0.96	"	"	"	"	"	"	"

**Volatile Organic TPH by GC/FID**

TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg	1	B0C0029	03/03/20	03/03/20	EPA 8015M	
Surrogate: 4-Bromofluorobenzene			95 %	(10 - 193)		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0092	03/04/20	03/05/20	EPA 8015M	
TPH Motor Oil (C23-C40)	ND	40	50	"	"	"	"	"	"	
Surrogate: o-Terphenyl			100 %	(69 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

**2001102-09 (Solid)**  
**13-1A Cellar-S.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatle Organic Compounds by GC/MS**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	0.0050	mg/kg	1	BOC0166	03/06/20	03/06/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincents Lease  
 Project Manager: Dan Ringtmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-09 (Solid)**  
**13-1A Cellar-S.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatle Organic Compounds by GC/MS (Continued)</b>										
Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			93 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			98 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			102 %	(81 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vicente Lease  
 Project Manager: Dan Ringstmeier

WO & Reported:  
**2001102**  
 03/12/2020 19:26

**2001102-10 (Solid)**  
**13-1A Cellar-N.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.015</b>	0.0088	0.081	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	5
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**Total Metals by ICP**

<b>Antimony</b>	ND	0.95	2.4	mg/kg	1	B0B0873	02/29/20	03/04/20	EPA 6010B	
<b>Arsenic</b>	<b>3.3</b>	0.95	1.9	"	"	"	"	"	"	
<b>Barium</b>	<b>59</b>	0.48	0.95	"	"	"	"	"	"	
<b>Beryllium</b>	ND	0.24	0.48	"	"	"	"	"	"	
<b>Cadmium</b>	ND	0.14	0.24	"	"	"	"	"	"	
<b>Chromium</b>	<b>8.1</b>	0.24	0.48	"	"	"	"	"	"	
<b>Cobalt</b>	<b>3.0</b>	0.24	0.48	"	"	"	"	"	"	
<b>Copper</b>	<b>8.6</b>	0.48	0.95	"	"	"	"	"	"	
<b>Lead</b>	<b>3.6</b>	0.29	0.48	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>2.1</b>	0.24	0.48	"	"	"	"	"	"	
<b>Nickel</b>	<b>8.8</b>	0.095	0.24	"	"	"	"	"	"	
<b>Selenium</b>	ND	0.95	1.9	"	"	"	"	"	"	
<b>Silver</b>	ND	0.19	0.48	"	"	"	"	"	"	
<b>Thallium</b>	<b>1.5</b>	0.48	0.95	"	"	"	"	"	"	
<b>Vanadium</b>	<b>16</b>	0.48	0.95	"	"	"	"	"	"	
<b>Zinc</b>	<b>21</b>	0.48	0.95	"	"	"	"	"	"	

**Volatile Organic TPH by GC/FID**

<b>TPH Gasoline (C5-C12)</b>	ND	0.10	0.50	mg/kg	1	B0C0161	03/06/20	03/07/20	EPA 8015M	
<i>Surrogate: 4-Bromofluorobenzene</i>			97 %	(10 - 193)		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

<b>TPH Diesel (C13-C22)</b>	ND	7.6	10	mg/kg	1	B0C0092	03/04/20	03/05/20	EPA 8015M	
<b>TPH Motor Oil (C23-C40)</b>	ND	40	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			102 %	(69 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## 2001102-10 (Solid) 13-1A Cellar-N.Wall

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organic Compounds by GC/MS</b>										
Benzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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**2001102-10 (Solid)**  
**13-1A Cellar-N.Wall**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			93 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			97 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			101 %	(81 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringtmeyer

WO & Reported:  
**2001102**  
03/12/2020 19:26

**2001102-11 (Solid)**  
**13-1A Cellar-Bottom**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Total Metals by CVAA**

<b>Mercury</b>	<b>0.018</b>	0.0097	0.090	mg/kg	1	B0B0869	02/29/20	03/03/20	EPA 7471A	J
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**Total Metals by ICP**

Antimony	ND	0.99	2.5	mg/kg	1	B0B0873	02/29/20	03/04/20	EPA 6010B	
<b>Arsenic</b>	<b>9.6</b>	0.99	2.0	"	"	"	"	"	"	
<b>Barium</b>	<b>76</b>	0.49	0.99	"	"	"	"	"	"	
<b>Beryllium</b>	<b>0.31</b>	0.25	0.49	"	"	"	"	"	"	J
Cadmium	ND	0.15	0.25	"	"	"	"	"	"	
<b>Chromium</b>	<b>13</b>	0.25	0.49	"	"	"	"	"	"	
<b>Cobalt</b>	<b>4.8</b>	0.25	0.49	"	"	"	"	"	"	
<b>Copper</b>	<b>8.3</b>	0.49	0.99	"	"	"	"	"	"	
<b>Lead</b>	<b>4.2</b>	0.30	0.49	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>4.2</b>	0.25	0.49	"	"	"	"	"	"	
<b>Nickel</b>	<b>13</b>	0.099	0.25	"	"	"	"	"	"	
Selenium	ND	0.99	2.0	"	"	"	"	"	"	
Silver	ND	0.20	0.49	"	"	"	"	"	"	
<b>Thallium</b>	<b>1.7</b>	0.49	0.99	"	"	"	"	"	"	
<b>Vanadium</b>	<b>22</b>	0.49	0.99	"	"	"	"	"	"	
<b>Zinc</b>	<b>31</b>	0.49	0.99	"	"	"	"	"	"	

**Volatile Organic TPH by GC/FID**

TPH Gasoline (C5-C12)	ND	0.099	0.50	mg/kg	1	B0C0161	03/06/20	03/07/20	EPA 8015M	
<i>Surrogate: 4-Bromofluorobenzene</i>			97 %	( 10 - 193 )		"	"	"	"	

**Semi-Volatile Organic TPH by GC/FID**

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg	1	B0C0092	03/04/20	03/05/20	EPA 8015M	
TPH Motor Oil (C23-C40)	ND	40	50	"	"	"	"	"	"	
<i>Surrogate: o-Terphenyl</i>			103 %	( 69 - 120 )		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincente Lease  
 Project Manager: Dan Ringstmeier

WO & Reported:  
 2001102  
 03/12/2020 19:26

**2001102-11 (Solid)**  
**13-1A Cellar-Bottom**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatle Organic Compounds by GC/MS**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Bromobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromoform	ND	0.0020	0.0050	"	"	"	"	"	"	
Bromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Chlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloroform	ND	0.0020	0.0050	"	"	"	"	"	"	
Chloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	"	"	"	"	"	
Dibromomethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0020	0.0050	"	"	"	"	"	"	
4-Isopropyl Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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**2001102-11 (Solid)  
13-1A Cellar-Bottom**

Analyte	Result	MDL	RL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organic Compounds by GC/MS (Continued)**

Isopropylbenzene	ND	0.0020	0.0050	mg/kg	1	B0C0166	03/06/20	03/06/20	EPA 8260B	
Methylene chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0020	0.0050	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Styrene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichloroethene (TCE)	ND	0.0020	0.0050	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"	"	"	"	"	"	
Vinyl chloride	ND	0.0020	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0020	0.0050	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane			91 %	(70 - 142)		"	"	"	"	
Surrogate: Toluene-d8			97 %	(76 - 123)		"	"	"	"	
Surrogate: 4-Bromofluorobenzene			101 %	(81 - 120)		"	"	"	"	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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## Total Metals by CVAA - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0B0869 - EPA 7471A Preparation: EPA 7471A Prep 02/29/20 09:57</b>											
<b>Blank (B0B0869-BLK1)</b>											
Mercury	ND	0.011	0.10	mg/kg							
<b>LCS (B0B0869-BS1)</b>											
Mercury	0.748	0.011	0.10	mg/kg	0.833		90	85-115			
<b>LCS Dup (B0B0869-BSD1)</b>											
Mercury	0.783	0.011	0.10	mg/kg	0.833		94	85-115	5	20	
<b>Duplicate (B0B0869-DUP1)</b>											
Mercury	0.0160	0.010	0.097	mg/kg		0.0179			11	20	J
<b>Matrix Spike (B0B0869-MS1)</b>											
Mercury	0.662	0.0083	0.077	mg/kg	0.639	0.0179	101	75-125			
<b>Matrix Spike Dup (B0B0869-MSD1)</b>											
Mercury	0.567	0.010	0.095	mg/kg	0.789	0.0179	70	75-125	16	20	QM-07
<b>Post Spike (B0B0869-PS1)</b>											
Mercury	5.80			ug/L	5.00	0.135	113	85-115			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0854 - EPA 6010B Preparation: EPA 3050B 02/28/20 14:54

### Blank (B0B0854-BLK1)

Analyzed: 03/02/20 23:31

Antimony	ND	1.0	2.5	mg/kg							
Arsenic	ND	1.0	2.0	"							
Barium	ND	0.50	1.0	"							
Beryllium	ND	0.25	0.50	"							
Cadmium	ND	0.15	0.25	"							
Chromium	ND	0.25	0.50	"							
Cobalt	ND	0.25	0.50	"							
Copper	ND	0.50	1.0	"							
Lead	ND	0.30	0.50	"							
Molybdenum	ND	0.25	0.50	"							
Nickel	ND	0.10	0.25	"							
Selenium	ND	1.0	2.0	"							
Silver	ND	0.20	0.50	"							
Thallium	ND	0.50	1.0	"							
Vanadium	ND	0.50	1.0	"							
Zinc	ND	0.50	1.0	"							

### LCS (B0B0854-BS1)

Analyzed: 03/02/20 23:03

Antimony	97.2	1.0	2.5	mg/kg	100		97	80-120
Arsenic	97.8	1.0	2.0	"	100		98	80-120
Barium	99.4	0.50	1.0	"	100		99	80-120
Beryllium	98.7	0.25	0.50	"	100		99	80-120
Cadmium	99.6	0.15	0.25	"	100		100	80-120
Chromium	99.0	0.25	0.50	"	100		99	80-120
Cobalt	102	0.25	0.50	"	100		102	80-120
Copper	102	0.50	1.0	"	100		102	80-120
Lead	102	0.30	0.50	"	100		102	80-120
Molybdenum	98.0	0.25	0.50	"	100		98	80-120
Nickel	100	0.10	0.25	"	100		100	80-120
Selenium	96.1	1.0	2.0	"	100		96	80-120
Silver	5.00	0.20	0.50	"	5.00		100	80-120
Thallium	85.1	0.50	1.0	"	100		85	80-120
Vanadium	99.2	0.50	1.0	"	100		99	80-120
Zinc	99.2	0.50	1.0	"	100		99	80-120

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0854 - EPA 6010B Preparation: EPA 3050B 02/28/20 14:54

### LCS Dup (B0B0854-BSD1)

Analyzed: 03/02/20 23:06

Antimony	97.2	1.0	2.5	mg/kg	100		97	80-120	0.05	20	
Arsenic	97.0	1.0	2.0	"	100		97	80-120	0.7	20	
Barium	97.8	0.50	1.0	*	100		98	80-120	2	20	
Beryllium	97.2	0.25	0.50	*	100		97	80-120	2	20	
Cadmium	98.8	0.15	0.25	*	100		99	80-120	0.8	20	
Chromium	98.4	0.25	0.50	*	100		98	80-120	0.6	20	
Cobalt	101	0.25	0.50	*	100		101	80-120	0.8	20	
Copper	102	0.50	1.0	*	100		102	80-120	0.5	20	
Lead	101	0.30	0.50	*	100		101	80-120	0.9	20	
Molybdenum	98.4	0.25	0.50	*	100		98	80-120	0.3	20	
Nickel	99.7	0.10	0.25	*	100		100	80-120	0.8	20	
Selenium	96.0	1.0	2.0	*	100		96	80-120	0.05	20	
Silver	4.92	0.20	0.50	*	5.00		98	80-120	2	20	
Thallium	83.9	0.50	1.0	*	100		84	80-120	1	20	
Vanadium	99.5	0.50	1.0	*	100		100	80-120	0.4	20	
Zinc	98.6	0.50	1.0	*	100		99	80-120	0.6	20	

### Duplicate (B0B0854-DUP1)

Source: 2001102-02

Analyzed: 03/02/20 23:18

Antimony	ND	0.99	2.5	mg/kg	ND					20	
Arsenic	4.62	0.99	2.0	*	4.42				4	20	
Barium	158	0.49	0.99	*	231				38	20	QR-04
Beryllium	0.316	0.25	0.49	*	ND					20	J
Cadmium	ND	0.15	0.25	*	ND					20	
Chromium	9.56	0.25	0.49	*	9.20				4	20	
Cobalt	4.58	0.25	0.49	*	4.24				8	20	
Copper	11.7	0.49	0.99	*	9.01				26	20	QR-04
Lead	11.1	0.30	0.49	*	11.2				0.9	20	
Molybdenum	1.58	0.25	0.49	*	1.12				34	20	QR-04
Nickel	11.8	0.099	0.25	*	11.1				6	20	
Selenium	ND	0.99	2.0	*	ND					20	
Silver	ND	0.20	0.49	*	ND					20	
Thallium	ND	0.49	0.99	*	1.99					20	
Vanadium	19.4	0.49	0.99	*	15.9				20	20	
Zinc	35.2	0.49	0.99	*	32.5				8	20	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0854 - EPA 6010B Preparation: EPA 3050B 02/28/20 14:54

### Matrix Spike (B0B0854-MS1)

Source: 2001102-02

Analyzed: 03/02/20 23:08

Antimony	36.6	0.94	2.3	mg/kg	93.6	ND	39	10-96			
Arsenic	96.5	0.94	1.9	"	93.6	4.42	98	81-119			
Barium	257	0.47	0.94	"	93.6	231	27	37-174			QM-07
Beryllium	91.5	0.23	0.47	"	93.6	ND	98	81-117			
Cadmium	89.5	0.14	0.23	"	93.6	ND	96	79-114			
Chromium	105	0.23	0.47	"	93.6	9.20	102	68-137			
Cobalt	95.9	0.23	0.47	"	93.6	4.24	98	77-116			
Copper	107	0.47	0.94	"	93.6	9.01	105	78-128			
Lead	98.7	0.28	0.47	"	93.6	11.2	93	71-124			
Molybdenum	89.3	0.23	0.47	"	93.6	1.12	94	67-114			
Nickel	103	0.094	0.23	"	93.6	11.1	99	70-123			
Selenium	87.4	0.94	1.9	"	93.6	ND	93	73-118			
Silver	4.21	0.19	0.47	"	4.68	ND	90	54-130			
Thallium	66.3	0.47	0.94	"	93.6	1.99	69	69-117			
Vanadium	118	0.47	0.94	"	93.6	15.9	109	75-132			
Zinc	129	0.47	0.94	"	93.6	32.5	103	58-140			

### Matrix Spike Dup (B0B0854-MSD1)

Source: 2001102-02

Analyzed: 03/02/20 23:11

Antimony	43.3	0.98	2.4	mg/kg	97.8	ND	44	10-96	17	20	
Arsenic	103	0.98	2.0	"	97.8	4.42	101	81-119	7	20	
Barium	302	0.49	0.98	"	97.8	231	72	37-174	16	20	
Beryllium	97.9	0.24	0.49	"	97.8	ND	100	81-117	7	20	
Cadmium	96.2	0.15	0.24	"	97.8	ND	98	79-114	7	20	
Chromium	109	0.24	0.49	"	97.8	9.20	102	68-137	4	20	
Cobalt	102	0.24	0.49	"	97.8	4.24	100	77-116	6	20	
Copper	113	0.49	0.98	"	97.8	9.01	107	78-128	6	20	
Lead	106	0.29	0.49	"	97.8	11.2	97	71-124	7	20	
Molybdenum	96.3	0.24	0.49	"	97.8	1.12	97	67-114	8	20	
Nickel	108	0.098	0.24	"	97.8	11.1	99	70-123	4	20	
Selenium	95.3	0.98	2.0	"	97.8	ND	98	73-118	9	20	
Silver	4.61	0.20	0.49	"	4.89	ND	94	54-130	9	20	
Thallium	75.4	0.49	0.98	"	97.8	1.99	75	69-117	13	20	
Vanadium	122	0.49	0.98	"	97.8	15.9	108	75-132	3	20	
Zinc	132	0.49	0.98	"	97.8	32.5	102	58-140	3	20	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0854 - EPA 6010B Preparation: EPA 3050B 02/28/20 14:54

Post Spike (B0B0854-PS1)	Source: 2001102-02	Analyzed: 03/02/20 23:13									
Antimony	1.98			mg/L	2.00	0.00486	99	75-125			
Arsenic	1.97			"	2.00	0.0929	94	75-125			
Barium	5.94			"	2.00	4.86	54	75-125			QL-02
Beryllium	1.84			"	2.00	0.00486	92	75-125			
Cadmium	1.81			"	2.00	-0.00536	90	75-125			
Chromium	2.01			"	2.00	0.193	91	75-125			
Cobalt	1.91			"	2.00	0.0891	91	75-125			
Copper	2.13			"	2.00	0.189	97	75-125			
Lead	2.06			"	2.00	0.235	91	75-125			
Molybdenum	1.98			"	2.00	0.0235	98	75-125			
Nickel	2.02			"	2.00	0.234	89	75-125			
Selenium	1.82			"	2.00	-0.0309	91	75-125			
Silver	0.0878			"	0.100	-0.0100	88	75-125			
Thallium	1.47			"	2.00	0.0418	71	75-125			QL-02
Vanadium	2.23			"	2.00	0.334	95	75-125			
Zinc	2.50			"	2.00	0.683	91	75-125			

Batch B0B0873 - EPA 6010B Preparation: EPA 3050B 02/29/20 10:46

Blank (B0B0873-BLK1)	Analyzed: 03/04/20 11:52										
Antimony	ND	1.0	2.5	mg/kg							
Arsenic	ND	1.0	2.0	"							
Barium	ND	0.50	1.0	"							
Beryllium	ND	0.25	0.50	"							
Cadmium	ND	0.15	0.25	"							
Chromium	ND	0.25	0.50	"							
Cobalt	ND	0.25	0.50	"							
Copper	ND	0.50	1.0	"							
Lead	ND	0.30	0.50	"							
Molybdenum	ND	0.25	0.50	"							
Nickel	ND	0.10	0.25	"							
Selenium	ND	1.0	2.0	"							
Silver	ND	0.20	0.50	"							
Thallium	ND	0.50	1.0	"							
Vanadium	ND	0.50	1.0	"							
Zinc	ND	0.50	1.0	"							

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<b>Buena Resources</b> P.O. Box 2040 Santa Maria CA, 93457-2040	<b>Project: Buena Resources</b> Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	<b>WO &amp; Reported:</b> <b>2001102</b> 03/12/2020 19:26
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## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0873 - EPA 6010B Preparation: EPA 3050B 02/29/20 10:46

### LCS (B0B0873-BS1)

Analyzed: 03/04/20 11:41

Antimony	99.2	1.0	2.5	mg/kg	100		99	80-120			
Arsenic	96.8	1.0	2.0	"	100		97	80-120			
Barium	98.9	0.50	1.0	"	100		99	80-120			
Beryllium	97.4	0.25	0.50	"	100		97	80-120			
Cadmium	100	0.15	0.25	"	100		100	80-120			
Chromium	99.4	0.25	0.50	"	100		99	80-120			
Cobalt	101	0.25	0.50	"	100		101	80-120			
Copper	102	0.50	1.0	"	100		102	80-120			
Lead	102	0.30	0.50	"	100		102	80-120			
Molybdenum	99.0	0.25	0.50	"	100		99	80-120			
Nickel	100	0.10	0.25	"	100		100	80-120			
Selenium	96.9	1.0	2.0	"	100		97	80-120			
Silver	4.92	0.20	0.50	"	5.00		98	80-120			
Thallium	99.4	0.50	1.0	"	100		99	80-120			
Vanadium	99.4	0.50	1.0	"	100		99	80-120			
Zinc	99.4	0.50	1.0	"	100		99	80-120			

### LCS Dup (B0B0873-BSD1)

Analyzed: 03/04/20 11:57

Antimony	97.7	1.0	2.5	mg/kg	100		98	80-120	2	20	
Arsenic	95.8	1.0	2.0	"	100		96	80-120	1	20	
Barium	98.4	0.50	1.0	"	100		98	80-120	0.5	20	
Beryllium	97.0	0.25	0.50	"	100		97	80-120	0.3	20	
Cadmium	99.3	0.15	0.25	"	100		99	80-120	0.7	20	
Chromium	98.4	0.25	0.50	"	100		98	80-120	1	20	
Cobalt	100	0.25	0.50	"	100		100	80-120	0.8	20	
Copper	101	0.50	1.0	"	100		101	80-120	1	20	
Lead	101	0.30	0.50	"	100		101	80-120	1	20	
Molybdenum	98.5	0.25	0.50	"	100		98	80-120	0.5	20	
Nickel	99.4	0.10	0.25	"	100		99	80-120	0.9	20	
Selenium	96.2	1.0	2.0	"	100		96	80-120	0.8	20	
Silver	4.88	0.20	0.50	"	5.00		98	80-120	0.9	20	
Thallium	100	0.50	1.0	"	100		100	80-120	0.8	20	
Vanadium	98.8	0.50	1.0	"	100		99	80-120	0.6	20	
Zinc	98.8	0.50	1.0	"	100		99	80-120	0.6	20	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0873 - EPA 6010B Preparation: EPA 3050B 02/29/20 10:46

Duplicate (B0B0873-DUP1)	Source: 2001102-09			Analyzed: 03/04/20 12:10							
Antimony	ND	0.97	2.4	mg/kg	ND					20	
Arsenic	1.63	0.97	1.9	"	2.43				39	20	QR-04, J
Barium	38.2	0.48	0.97	"	35.9				6	20	
Beryllium	ND	0.24	0.48	"	ND					20	
Cadmium	ND	0.14	0.24	"	ND					20	
Chromium	4.96	0.24	0.48	"	4.17				17	20	
Cobalt	1.85	0.24	0.48	"	1.99				7	20	
Copper	3.85	0.48	0.97	"	3.50				10	20	
Lead	2.43	0.29	0.48	"	2.53				4	20	
Molybdenum	0.981	0.24	0.48	"	1.44				38	20	QR-04
Nickel	5.67	0.097	0.24	"	5.88				4	20	
Selenium	ND	0.97	1.9	"	ND					20	
Silver	ND	0.19	0.48	"	ND					20	
Thallium	1.03	0.48	0.97	"	1.23				17	20	
Vanadium	9.84	0.48	0.97	"	10.2				4	20	
Zinc	13.5	0.48	0.97	"	14.4				6	20	

Matrix Spike (B0B0873-MS1)	Source: 2001102-09			Analyzed: 03/04/20 12:00							
Antimony	57.9	0.91	2.3	mg/kg	91.0	ND	64	10-96			
Arsenic	92.4	0.91	1.8	"	91.0	2.43	99	81-119			
Barium	133	0.45	0.91	"	91.0	35.9	107	37-174			
Beryllium	88.8	0.23	0.45	"	91.0	ND	98	81-117			
Cadmium	87.8	0.14	0.23	"	91.0	ND	96	79-114			
Chromium	96.8	0.23	0.45	"	91.0	4.17	102	68-137			
Cobalt	89.0	0.23	0.45	"	91.0	1.99	96	77-116			
Copper	97.9	0.45	0.91	"	91.0	3.50	104	78-128			
Lead	91.3	0.27	0.45	"	91.0	2.53	98	71-124			
Molybdenum	89.1	0.23	0.45	"	91.0	1.44	96	67-114			
Nickel	92.4	0.091	0.23	"	91.0	5.88	95	70-123			
Selenium	87.4	0.91	1.8	"	91.0	ND	96	73-118			
Silver	4.33	0.18	0.45	"	4.55	ND	95	54-130			
Thallium	91.9	0.45	0.91	"	91.0	1.23	100	69-117			
Vanadium	106	0.45	0.91	"	91.0	10.2	105	75-132			
Zinc	103	0.45	0.91	"	91.0	14.4	98	58-140			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Total Metals by ICP - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0B0873 - EPA 6010B Preparation: EPA 3050B 02/29/20 10:46

Matrix Spike Dup (B0B0873-MSD1)	Source: 2001102-09			Analyzed: 03/04/20 12:02							
Antimony	63.3	0.95	2.4	mg/kg	95.3	ND	66	10-96	9	20	
Arsenic	94.6	0.95	1.9	"	95.3	2.43	97	81-119	2	20	
Barium	130	0.48	0.95	"	95.3	35.9	99	37-174	2	20	
Beryllium	90.7	0.24	0.48	"	95.3	ND	95	81-117	2	20	
Cadmium	90.3	0.14	0.24	"	95.3	ND	95	79-114	3	20	
Chromium	99.0	0.24	0.48	"	95.3	4.17	100	68-137	2	20	
Cobalt	91.4	0.24	0.48	"	95.3	1.99	94	77-116	3	20	
Copper	98.9	0.48	0.95	"	95.3	3.50	100	78-128	1	20	
Lead	93.4	0.29	0.48	"	95.3	2.53	95	71-124	2	20	
Molybdenum	91.8	0.24	0.48	"	95.3	1.44	95	67-114	3	20	
Nickel	94.6	0.095	0.24	"	95.3	5.88	93	70-123	2	20	
Selenium	90.3	0.95	1.9	"	95.3	ND	95	73-118	3	20	
Silver	4.47	0.19	0.48	"	4.77	ND	94	54-130	3	20	
Thallium	93.5	0.48	0.95	"	95.3	1.23	97	69-117	2	20	
Vanadium	106	0.48	0.95	"	95.3	10.2	100	75-132	0.5	20	
Zinc	105	0.48	0.95	"	95.3	14.4	95	58-140	2	20	

Post Spike (B0B0873-PS1)	Source: 2001102-09		Analyzed: 03/04/20 12:05								
Antimony	2.00		mg/L	2.00	0.000496	100	75-125				
Arsenic	2.00		"	2.00	0.0500	98	75-125				
Barium	2.70		"	2.00	0.738	98	75-125				
Beryllium	1.93		"	2.00	0.00298	96	75-125				
Cadmium	1.92		"	2.00	-0.00327	96	75-125				
Chromium	2.07		"	2.00	0.0857	99	75-125				
Cobalt	1.95		"	2.00	0.0409	95	75-125				
Copper	2.09		"	2.00	0.0719	101	75-125				
Lead	2.00		"	2.00	0.0521	97	75-125				
Molybdenum	2.01		"	2.00	0.0297	99	75-125				
Nickel	2.01		"	2.00	0.121	94	75-125				
Selenium	1.92		"	2.00	-0.0117	96	75-125				
Silver	0.0966		"	0.100	-0.00308	97	75-125				
Thallium	1.83		"	2.00	0.0253	90	75-125				
Vanadium	2.22		"	2.00	0.211	101	75-125				
Zinc	2.22		"	2.00	0.296	96	75-125				

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## General Chemistry Parameters by EPA or APHA Standard Methods - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B0C0007 - EPA 9045 Preparation: EPA 9045 pH Prep 03/02/20 08:52

<b>LCS (B0C0007-BS1)</b> pH @ 25 C	4.02	0.05	0.10	pH Units	4.00		100	90-110			Analyzed: 03/02/20 08:52
<b>LCS (B0C0007-BS2)</b> pH @ 25 C	7.03	0.05	0.10	pH Units	7.00		100	90-110			Analyzed: 03/02/20 08:52
<b>LCS (B0C0007-BS3)</b> pH @ 25 C	9.95	0.05	0.10	pH Units	10.0		100	90-110			Analyzed: 03/02/20 08:52
<b>LCS (B0C0007-BS4)</b> pH @ 25 C	12.05	0.05	0.10	pH Units	12.0		100	90-110			Analyzed: 03/02/20 08:52
<b>Duplicate (B0C0007-DUP1)</b> pH @ 25 C	8.26	0.05	0.10	pH Units		8.17			1	10	Source: 2001078-01 Analyzed: 03/02/20 08:52
pH Sample Temperature During Analysis	23.5	1.0	1.0	°C		23.6			0.4	10	
<b>Duplicate (B0C0007-DUP2)</b> pH @ 25 C	8.09	0.05	0.10	pH Units		8.21			1	10	Source: 2001078-14 Analyzed: 03/02/20 08:52
pH Sample Temperature During Analysis	23.5	1.0	1.0	°C		23.6			0.4	10	

### Batch B0C0008 - SW846. 7.3 Preparation: EPA 9030 03/02/20 09:04

<b>Blank (B0C0008-BLK1)</b> Cyanide, reactive	ND	0.167	0.500	mg/kg							Analyzed: 03/02/20 16:57
<b>LCS (B0C0008-BS1)</b> Cyanide, reactive	1.43	0.167	0.500	mg/kg	8.00		18	5-42			Analyzed: 03/02/20 16:57
<b>Duplicate (B0C0008-DUP1)</b> Cyanide, reactive	ND	0.167	0.500	mg/kg		ND				20	Source: 2001083-01 Analyzed: 03/02/20 16:57

### Batch B0C0011 - SW 846 7.3 Preparation: EPA 9030 03/02/20 09:11

<b>Blank (B0C0011-BLK1)</b> Sulfide, reactive	ND	20.0	40.0	mg/kg							Analyzed: 03/02/20 09:11
<b>LCS (B0C0011-BS1)</b> Sulfide, reactive	106	20.0	40.0	mg/kg	250		42	9-105			Analyzed: 03/02/20 09:11

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vincente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
**2001102**  
 03/12/2020 19:26

## General Chemistry Parameters by EPA or APHA Standard Methods - Quality Control

Analyte	Result	MDL	RL	Units	Spikes Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0C0011 - SW 846 7.3 Preparation: EPA 9030 03/02/20 09:11</b>											
<b>Duplicate (B0C0011-DUP1)</b>	<b>Source: 2001083-01</b>		<b>Analyzed: 03/02/20 09:11</b>								
Sulfide, reactive	ND	20.0	40.0	mg/kg		ND				20	
<b>Batch B0C0201 - EPA 1010M Preparation: EPA 1010 Prep 03/09/20 09:06</b>											
<b>Blank (B0C0201-BLK1)</b>	<b>Analyzed: 03/09/20 09:06</b>										
Flashpoint	>212	72	72	°F							
<b>LCS (B0C0201-BS1)</b>	<b>Analyzed: 03/09/20 09:06</b>										
Flashpoint	84	72	72	°F	81.0		104	95-105			
<b>LCS (B0C0201-BS2)</b>	<b>Analyzed: 03/09/20 09:06</b>										
Flashpoint	138	72	72	°F	133		104	95-105			
<b>Duplicate (B0C0201-DUP1)</b>	<b>Source: 2001121-01</b>		<b>Analyzed: 03/09/20 09:06</b>								
Flashpoint	150	72	72	°F		150			0	10	

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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## Volatile Organic TPH by GC/FID - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC Level	%REC Limits	RPD	RPD Limit	Notes
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### Batch B0C0029 - EPA 8015M Preparation: EPA 5035/5030B MEOH GC 03/03/20 07:58

<b>Blank (B0C0029-BLK1)</b> Analyzed: 03/03/20 10:03											
TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg							
Surrogate: 4-Bromofluorobenzene			0.122	"	0.125		98	10-193			
<b>LCS (B0C0029-BS1)</b> Analyzed: 03/03/20 08:53											
TPH Gasoline (C5-C12)	0.572	0.10	0.50	mg/kg	0.500		114	40-170			
Surrogate: 4-Bromofluorobenzene			0.113	"	0.125		90	10-193			
<b>LCS Dup (B0C0029-BSD1)</b> Analyzed: 03/03/20 09:24											
TPH Gasoline (C5-C12)	0.622	0.10	0.50	mg/kg	0.499		125	40-170	8	20	
Surrogate: 4-Bromofluorobenzene			0.110	"	0.125		88	10-193			
<b>Duplicate (B0C0029-DUP1)</b> Source: 2001117-03 Analyzed: 03/03/20 16:22											
TPH Gasoline (C5-C12)	0.727	0.099	0.50	mg/kg		0.700			4	20	
Surrogate: 4-Bromofluorobenzene			0.170	"	0.124		137	10-193			
<b>Matrix Spike (B0C0029-MS1)</b> Source: 2001102-03 Analyzed: 03/04/20 02:14											
TPH Gasoline (C5-C12)	0.411	0.10	0.50	mg/kg	0.499	ND	82	10-185			J
Surrogate: 4-Bromofluorobenzene			0.117	"	0.125		94	10-193			
<b>Matrix Spike Dup (B0C0029-MSD1)</b> Source: 2001102-03 Analyzed: 03/04/20 02:45											
TPH Gasoline (C5-C12)	0.407	0.099	0.50	mg/kg	0.497	ND	82	10-185	1	20	J
Surrogate: 4-Bromofluorobenzene			0.114	"	0.124		92	10-193			

### Batch B0C0161 - EPA 8015M Preparation: EPA 5035/5030B MEOH GC 03/06/20 09:11

<b>Blank (B0C0161-BLK1)</b> Analyzed: 03/06/20 10:58											
TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg							
Surrogate: 4-Bromofluorobenzene			0.120	"	0.125		97	10-193			
<b>LCS (B0C0161-BS1)</b> Analyzed: 03/06/20 09:48											
TPH Gasoline (C5-C12)	0.626	0.099	0.50	mg/kg	0.496		126	40-170			
Surrogate: 4-Bromofluorobenzene			0.111	"	0.124		90	10-193			
<b>LCS Dup (B0C0161-BSD1)</b> Analyzed: 03/06/20 10:19											
TPH Gasoline (C5-C12)	0.614	0.099	0.50	mg/kg	0.497		124	40-170	2	20	
Surrogate: 4-Bromofluorobenzene			0.111	"	0.124		89	10-193			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringtmeyer

WO & Reported:  
**2001102**  
03/12/2020 19:26

## Volatile Organic TPH by GC/FID - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0161 - EPA 8015M Preparation: EPA 5035/5030B MEOH GC 03/06/20 09:11

Duplicate (B0C0161-DUP1)	Source: 2001185-09RE1		Analyzed: 03/06/20 16:10								
TPH Gasoline (C5-C12)	ND	0.10	0.50	mg/kg		ND					20
Surrogate: 4-Bromofluorobenzene			0.119	"	0.125		95	10-193			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## DIWET Semi-Volatile Organic TPH by GC/FID - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0207 - DIWET/EPA 8015M Preparation: EPA 3510C 03/09/20 09:44

<b>Blank (B0C0207-BLK2)</b>											
Analyzed: 03/09/20 15:19											
TPH Diesel (C13-C22)	ND	0.084	0.10	mg/L							
TPH Motor Oil (C23-C40)	ND	0.10	0.20	"							
Surrogate: o-Terphenyl			0.167	"	0.204		82	45-143			
<b>LCS (B0C0207-BS1)</b>											
Analyzed: 03/09/20 14:35											
TPH Diesel (C13-C22)	0.757	0.041	0.050	mg/L	1.00		76	23-102			
TPH Motor Oil (C23-C40)	0.919	0.050	0.10	"	1.00		92	74-129			
Surrogate: o-Terphenyl			0.106	"	0.100		106	45-143			
<b>LCS Dup (B0C0207-BSD1)</b>											
Analyzed: 03/09/20 14:50											
TPH Diesel (C13-C22)	0.733	0.041	0.050	mg/L	1.00		73	23-102	3	20	
TPH Motor Oil (C23-C40)	0.923	0.050	0.10	"	1.00		92	74-129	0.4	20	
Surrogate: o-Terphenyl			0.100	"	0.100		100	45-143			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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### Semi-Volatile Organic TPH by GC/FID - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0C0067 - EPA 8015M** Preparation: EPA 3550C 03/04/20 10:10

<b>Blank (B0C0067-BLK1)</b>											
Analyzed: 03/04/20 15:31											
TPH Diesel (C13-C22)	ND	7.6	10	mg/kg							
TPH Motor Oil (C23-C40)	ND	40	50	"							
Surrogate: o-Terphenyl			51.2	"	49.9		103	69-120			
<b>LCS (B0C0067-BS1)</b>											
Analyzed: 03/04/20 14:20											
TPH Diesel (C13-C22)	464	7.6	10	mg/kg	498		93	75-111			
TPH Motor Oil (C23-C40)	505	40	50	"	498		102	89-121			
Surrogate: o-Terphenyl			50.7	"	49.8		102	69-120			
<b>LCS Dup (B0C0067-BSD1)</b>											
Analyzed: 03/04/20 14:35											
TPH Diesel (C13-C22)	464	7.6	10	mg/kg	498		93	75-111	0.2	20	
TPH Motor Oil (C23-C40)	517	40	50	"	498		104	89-121	2	20	
Surrogate: o-Terphenyl			51.0	"	49.8		102	69-120			
<b>Duplicate (B0C0067-DUP1)</b>											
Source: 2001103-01 Analyzed: 03/04/20 15:45											
TPH Diesel (C13-C22)	ND	7.6	10	mg/kg		ND					20
TPH Motor Oil (C23-C40)	ND	40	50	"		ND					20
Surrogate: o-Terphenyl			51.6	"	49.8		104	69-120			
<b>Matrix Spike (B0C0067-MS1)</b>											
Source: 2001103-01 Analyzed: 03/04/20 14:49											
TPH Diesel (C13-C22)	467	7.5	9.9	mg/kg	496	ND	94	47-145			
TPH Motor Oil (C23-C40)	530	40	50	"	496	ND	107	64-154			
Surrogate: o-Terphenyl			50.2	"	49.6		101	69-120			
<b>Matrix Spike Dup (B0C0067-MSD1)</b>											
Source: 2001103-01 Analyzed: 03/04/20 15:17											
TPH Diesel (C13-C22)	473	7.6	10	mg/kg	500	ND	95	47-145	1	20	
TPH Motor Oil (C23-C40)	525	40	50	"	500	ND	105	64-154	1	20	
Surrogate: o-Terphenyl			50.5	"	50.0		101	69-120			

**Batch B0C0092 - EPA 8015M** Preparation: EPA 3550C 03/04/20 13:10

<b>Blank (B0C0092-BLK1)</b>											
Analyzed: 03/05/20 00:56											
TPH Diesel (C13-C22)	ND	7.6	9.9	mg/kg							
TPH Motor Oil (C23-C40)	ND	40	50	"							
Surrogate: o-Terphenyl			50.5	"	49.7		102	69-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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## Semi-Volatile Organic TPH by GC/FID - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0092 - EPA 8015M Preparation: EPA 3550C 03/04/20 13:10

### LCS (B0C0092-BS1)

Analyzed: 03/04/20 23:59

TPH Diesel (C13-C22)	454	7.6	9.9	mg/kg	497		91	75-111			
TPH Motor Oil (C23-C40)	471	40	50	"	497		95	89-121			
Surrogate: o-Terphenyl			49.7	"	49.7		100	69-120			

### LCS Dup (B0C0092-BSD1)

Analyzed: 03/05/20 00:13

TPH Diesel (C13-C22)	465	7.6	10	mg/kg	498		93	75-111	2	20	
TPH Motor Oil (C23-C40)	470	40	50	"	498		94	89-121	0.3	20	
Surrogate: o-Terphenyl			50.0	"	49.8		100	69-120			

### Duplicate (B0C0092-DUP1)

Source: 2001102-09

Analyzed: 03/05/20 01:10

TPH Diesel (C13-C22)	ND	7.6	10	mg/kg		ND					20
TPH Motor Oil (C23-C40)	ND	40	50	"		ND					20
Surrogate: o-Terphenyl			50.8	"	49.8		102	69-120			

### Matrix Spike (B0C0092-MS1)

Source: 2001102-09

Analyzed: 03/05/20 00:27

TPH Diesel (C13-C22)	507	7.6	10	mg/kg	500	ND	101	47-145			
TPH Motor Oil (C23-C40)	522	40	50	"	500	ND	104	64-154			
Surrogate: o-Terphenyl			51.1	"	50.0		102	69-120			

### Matrix Spike Dup (B0C0092-MSD1)

Source: 2001102-09

Analyzed: 03/05/20 00:41

TPH Diesel (C13-C22)	456	7.6	10	mg/kg	499	ND	92	47-145	11	20	
TPH Motor Oil (C23-C40)	458	40	50	"	499	ND	92	64-154	13	20	
Surrogate: o-Terphenyl			50.0	"	49.9		100	69-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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## DIWET/STLC/ZHE Volatile Organic Compounds by GC/FID - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0C0069 - DIWET/ZHE-EPA 8015M Preparation: EPA 5030B Leachate 03/04/20 08:10</b>											
<b>Blank (B0C0069-BLK1)</b>											
Analyzed: 03/04/20 10:39											
TPH Gasoline (C5-C12)	ND	30	50	ug/L							
Surrogate: 4-Bromofluorobenzene			120	"	125		96	57-141			
<b>LCS (B0C0069-BS1)</b>											
Analyzed: 03/04/20 09:19											
TPH Gasoline (C5-C12)	606	30	50	ug/L	500		121	41-144			
Surrogate: 4-Bromofluorobenzene			110	"	125		88	57-141			
<b>LCS Dup (B0C0069-BSD1)</b>											
Analyzed: 03/04/20 09:50											
TPH Gasoline (C5-C12)	596	30	50	ug/L	500		119	41-144	2	20	
Surrogate: 4-Bromofluorobenzene			113	"	125		90	57-141			
<b>Duplicate (B0C0069-DUP1)</b>											
Source: 2001101-03 Analyzed: 03/04/20 14:07											
TPH Gasoline (C5-C12)	1050	30	50	ug/L		1140			8	20	
Surrogate: 4-Bromofluorobenzene			106	"	125		85	57-141			
<b>Matrix Spike (B0C0069-MS1)</b>											
Source: 2001101-01 Analyzed: 03/04/20 16:12											
TPH Gasoline (C5-C12)	1570	30	50	ug/L	500	1180	78	37-162			
Surrogate: 4-Bromofluorobenzene			94.9	"	125		76	57-141			
<b>Matrix Spike Dup (B0C0069-MSD1)</b>											
Source: 2001101-01 Analyzed: 03/04/20 16:43											
TPH Gasoline (C5-C12)	1370	30	50	ug/L	500	1180	38	37-162	14	20	
Surrogate: 4-Bromofluorobenzene			97.7	"	125		78	57-141			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0071 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:20

Blank (B0C0071-BLK1)				Analyzed: 03/04/20 09:54							
Benzene	ND	0.10	0.25	mg/kg							
Bromobenzene	ND	0.10	0.25	"							
Bromochloromethane	ND	0.10	0.25	"							
Bromodichloromethane	ND	0.10	0.25	"							
Bromoform	ND	0.10	0.25	"							
Bromomethane	ND	0.10	0.25	"							
n-Butylbenzene	ND	0.10	0.25	"							
sec-Butylbenzene	ND	0.10	0.25	"							
tert-Butylbenzene	ND	0.10	0.25	"							
Carbon tetrachloride	ND	0.10	0.25	"							
Chlorobenzene	ND	0.10	0.25	"							
Chloroethane	ND	0.10	0.25	"							
Chloroform	ND	0.10	0.25	"							
Chloromethane	ND	0.10	0.25	"							
2-Chlorotoluene	ND	0.10	0.25	"							
4-Chlorotoluene	ND	0.10	0.25	"							
Dibromochloromethane	ND	0.10	0.25	"							
1,2-Dibromo-3-chloropropane	ND	0.10	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.10	0.25	"							
Dibromomethane	ND	0.10	0.25	"							
1,2-Dichlorobenzene	ND	0.10	0.25	"							
1,3-Dichlorobenzene	ND	0.10	0.25	"							
1,4-Dichlorobenzene	ND	0.10	0.25	"							
Dichlorodifluoromethane	ND	0.10	0.25	"							
1,1-Dichloroethane	ND	0.10	0.25	"							
1,2-Dichloroethane	ND	0.10	0.25	"							
1,1-Dichloroethene	ND	0.10	0.25	"							
cis-1,2-Dichloroethene	ND	0.10	0.25	"							
trans-1,2-Dichloroethene	ND	0.10	0.25	"							
1,2-Dichloropropane	ND	0.10	0.25	"							
1,3-Dichloropropane	ND	0.10	0.25	"							
2,2-Dichloropropane	ND	0.10	0.25	"							CCHI
1,1-Dichloropropene	ND	0.10	0.25	"							
cis-1,3-Dichloropropene	ND	0.10	0.25	"							
trans-1,3-Dichloropropene	ND	0.10	0.25	"							
Ethylbenzene	ND	0.10	0.25	"							
Hexachlorobutadiene	ND	0.10	0.25	"							
4-Isopropyl Toluene	ND	0.10	0.25	"							
Isopropylbenzene	ND	0.10	0.25	"							
Methylene chloride	ND	0.10	0.25	"							
Methyl-t-butyl ether	ND	0.10	0.25	"							
Naphthalene	ND	0.10	0.25	"							

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0071 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:20

### Blank (B0C0071-BLK1)

Analyzed: 03/04/20 09:54

n-Propylbenzene	ND	0.10	0.25	mg/kg							
Styrene	ND	0.10	0.25	"							
1,1,1,2-Tetrachloroethane	ND	0.10	0.25	"							
1,1,2,2-Tetrachloroethane	ND	0.10	0.25	"							
Tetrachloroethene (PCE)	ND	0.10	0.25	"							
Toluene	ND	0.10	0.25	"							
1,2,3-Trichlorobenzene	ND	0.10	0.25	"							
1,2,4-Trichlorobenzene	ND	0.10	0.25	"							
1,1,1-Trichloroethane	ND	0.10	0.25	"							
1,1,2-Trichloroethane	ND	0.10	0.25	"							
Trichloroethene (TCE)	ND	0.10	0.25	"							
Trichlorofluoromethane	ND	0.10	0.25	"							
1,2,3-Trichloropropane	ND	0.10	0.25	"							
1,2,4-Trimethylbenzene	ND	0.10	0.25	"							
1,3,5-Trimethylbenzene	ND	0.10	0.25	"							
Vinyl chloride	ND	0.10	0.25	"							
Xylenes (total)	ND	0.10	0.25	"							
Surrogate: Dibromofluoromethane			0.0483	"	0.0499		97	70-142			
Surrogate: Toluene-d8			0.0486	"	0.0499		97	76-123			
Surrogate: 4-Bromofluorobenzene			0.0481	"	0.0499		96	81-120			

### LCS (B0C0071-BS1)

Analyzed: 03/04/20 08:57

Benzene	2.40	0.10	0.25	mg/kg	1.99		120	73-136			
Chlorobenzene	2.41	0.10	0.25	"	1.99		121	78-134			
1,1-Dichloroethene	2.57	0.10	0.25	"	1.99		129	46-169			
Toluene	2.60	0.10	0.25	"	1.99		131	73-135			
Trichloroethene (TCE)	2.63	0.10	0.25	"	1.99		132	76-139			
Surrogate: Dibromofluoromethane			0.0462	"	0.0498		93	70-142			
Surrogate: Toluene-d8			0.0496	"	0.0498		100	76-123			
Surrogate: 4-Bromofluorobenzene			0.0485	"	0.0498		97	81-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0071 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:20

### LCS Dup (B0C0071-BSD1)

Analyzed: 03/04/20 16:32

Benzene	2.24	0.10	0.25	mg/kg	2.00		112	73-136	7	20	
Chlorobenzene	2.16	0.10	0.25	"	2.00		108	78-134	11	20	
1,1-Dichloroethene	2.42	0.10	0.25	"	2.00		121	46-169	6	20	
Toluene	2.35	0.10	0.25	"	2.00		118	73-135	10	20	
Trichloroethene (TCE)	2.44	0.10	0.25	"	2.00		122	76-139	8	20	
Surrogate: Dibromofluoromethane			0.0469	"	0.0499		94	70-142			
Surrogate: Toluene-d8			0.0487	"	0.0499		98	76-123			
Surrogate: 4-Bromofluorobenzene			0.0486	"	0.0499		97	81-120			

### Duplicate (B0C0071-DUP1)

Source: 2001101-01

Analyzed: 03/04/20 13:15

Benzene	ND	0.50	1.2	mg/kg		ND				20	
Bromobenzene	ND	0.50	1.2	"		ND				20	
Bromochloromethane	ND	0.50	1.2	"		ND				20	
Bromodichloromethane	ND	0.50	1.2	"		ND				20	
Bromoform	ND	0.50	1.2	"		ND				20	
Bromomethane	ND	0.50	1.2	"		ND				20	
n-Butylbenzene	ND	0.50	1.2	"		ND				20	
sec-Butylbenzene	ND	0.50	1.2	"		ND				20	
tert-Butylbenzene	ND	0.50	1.2	"		ND				20	
Carbon tetrachloride	ND	0.50	1.2	"		ND				20	
Chlorobenzene	ND	0.50	1.2	"		ND				20	
Chloroethane	ND	0.50	1.2	"		ND				20	
Chloroform	ND	0.50	1.2	"		ND				20	
Chloromethane	ND	0.50	1.2	"		ND				20	
2-Chlorotoluene	ND	0.50	1.2	"		ND				20	
4-Chlorotoluene	ND	0.50	1.2	"		ND				20	
Dibromochloromethane	ND	0.50	1.2	"		ND				20	
1,2-Dibromo-3-chloropropane	ND	0.50	1.2	"		ND				20	
1,2-Dibromoethane (EDB)	ND	0.50	1.2	"		ND				20	
Dibromomethane	ND	0.50	1.2	"		ND				20	
1,2-Dichlorobenzene	ND	0.50	1.2	"		ND				20	
1,3-Dichlorobenzene	ND	0.50	1.2	"		ND				20	
1,4-Dichlorobenzene	ND	0.50	1.2	"		ND				20	
Dichlorodifluoromethane	ND	0.50	1.2	"		ND				20	
1,1-Dichloroethane	ND	0.50	1.2	"		ND				20	
1,2-Dichloroethane	ND	0.50	1.2	"		ND				20	
1,1-Dichloroethene	ND	0.50	1.2	"		ND				20	
cis-1,2-Dichloroethene	ND	0.50	1.2	"		ND				20	
trans-1,2-Dichloroethene	ND	0.50	1.2	"		ND				20	
1,2-Dichloropropane	ND	0.50	1.2	"		ND				20	
1,3-Dichloropropane	ND	0.50	1.2	"		ND				20	
2,2-Dichloropropane	ND	0.50	1.2	"		ND				20	CCHI

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0071 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:20

Duplicate (B0C0071-DUP1)	Source: 2001101-01		Analyzed: 03/04/20 13:15								
1,1-Dichloropropene	ND	0.50	1.2	mg/kg		ND				20	
cis-1,3-Dichloropropene	ND	0.50	1.2	"		ND				20	
trans-1,3-Dichloropropene	ND	0.50	1.2	"		ND				20	
Ethylbenzene	ND	0.50	1.2	"		ND				20	
Hexachlorobutadiene	ND	0.50	1.2	"		ND				20	
4-Isopropyl Toluene	ND	0.50	1.2	"		ND				20	
Isopropylbenzene	ND	0.50	1.2	"		ND				20	
Methylene chloride	ND	0.50	1.2	"		ND				20	
Methyl-t-butyl ether	ND	0.50	1.2	"		ND				20	
Naphthalene	0.619	0.50	1.2	"		0.593			4	20	J
n-Propylbenzene	ND	0.50	1.2	"		ND				20	
Styrene	ND	0.50	1.2	"		ND				20	
1,1,1,2-Tetrachloroethane	ND	0.50	1.2	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.50	1.2	"		ND				20	
Tetrachloroethene (PCE)	ND	0.50	1.2	"		ND				20	
Toluene	ND	0.50	1.2	"		ND				20	
1,2,3-Trichlorobenzene	ND	0.50	1.2	"		ND				20	
1,2,4-Trichlorobenzene	ND	0.50	1.2	"		ND				20	
1,1,1-Trichloroethane	ND	0.50	1.2	"		ND				20	
1,1,2-Trichloroethane	ND	0.50	1.2	"		ND				20	
Trichloroethene (TCE)	ND	0.50	1.2	"		ND				20	
Trichlorofluoromethane	ND	0.50	1.2	"		ND				20	
1,2,3-Trichloropropane	ND	0.50	1.2	"		ND				20	
1,2,4-Trimethylbenzene	ND	0.50	1.2	"		ND				20	
1,3,5-Trimethylbenzene	ND	0.50	1.2	"		ND				20	
Vinyl chloride	ND	0.50	1.2	"		ND				20	
Xylenes (total)	ND	0.50	1.2	"		ND				20	
Surrogate: Dibromofluoromethane			0.0475	"	0.0499		95	70-142			
Surrogate: Toluene-d8			0.0496	"	0.0499		99	76-123			
Surrogate: 4-Bromofluorobenzene			0.0503	"	0.0499		101	81-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0071 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:20

Matrix Spike (B0C0071-MS1)	Source: 2001101-03			Analyzed: 03/04/20 22:11							
Benzene	10.9	0.50	1.3	mg/kg	10.0	ND	108	39-154			
Chlorobenzene	10.3	0.50	1.3	"	10.0	ND	102	43-149			
1,1-Dichloroethene	11.0	0.50	1.3	"	10.0	ND	109	10-190			
Toluene	11.5	0.50	1.3	"	10.0	ND	114	36-154			
Trichloroethene (TCE)	11.8	0.50	1.3	"	10.0	ND	118	21-190			
Surrogate: Dibromofluoromethane			0.0494	"	0.0502		98	70-142			
Surrogate: Toluene-d8			0.0516	"	0.0502		103	76-123			
Surrogate: 4-Bromofluorobenzene			0.0516	"	0.0502		103	81-120			

Batch B0C0072 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:25

Blank (B0C0072-BLK1)	Analyzed: 03/04/20 17:03							
Benzene	ND	0.0020	0.0050	mg/kg				
Bromobenzene	ND	0.0020	0.0050	"				
Bromochloromethane	ND	0.0020	0.0050	"				
Bromodichloromethane	ND	0.0020	0.0050	"				
Bromoform	ND	0.0020	0.0050	"				
Bromomethane	ND	0.0020	0.0050	"				
n-Butylbenzene	ND	0.0020	0.0050	"				
sec-Butylbenzene	ND	0.0020	0.0050	"				
tert-Butylbenzene	ND	0.0020	0.0050	"				
Carbon tetrachloride	ND	0.0020	0.0050	"				
Chlorobenzene	ND	0.0020	0.0050	"				
Chloroethane	ND	0.0020	0.0050	"				
Chloroform	ND	0.0020	0.0050	"				
Chloromethane	ND	0.0020	0.0050	"				
2-Chlorotoluene	ND	0.0020	0.0050	"				
4-Chlorotoluene	ND	0.0020	0.0050	"				
Dibromochloromethane	ND	0.0020	0.0050	"				
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"				
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"				
Dibromomethane	ND	0.0020	0.0050	"				
1,2-Dichlorobenzene	ND	0.0020	0.0050	"				
1,3-Dichlorobenzene	ND	0.0020	0.0050	"				
1,4-Dichlorobenzene	ND	0.0020	0.0050	"				
Dichlorodifluoromethane	ND	0.0020	0.0050	"				
1,1-Dichloroethane	ND	0.0020	0.0050	"				
1,2-Dichloroethane	ND	0.0020	0.0050	"				
1,1-Dichloroethene	ND	0.0020	0.0050	"				
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"				
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"				
1,2-Dichloropropane	ND	0.0020	0.0050	"				

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.

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmsyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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### Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0C0072 - EPA 8260B** Preparation: EPA 5035/5030B MEOH 03/04/20 08:25

**Blank (B0C0072-BLK1)**

Analyzed: 03/04/20 17:03

1,3-Dichloropropane	ND	0.0020	0.0050	mg/kg							
2,2-Dichloropropane	ND	0.0020	0.0050	"							
1,1-Dichloropropene	ND	0.0020	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"							
Ethylbenzene	ND	0.0020	0.0050	"							
Hexachlorobutadiene	ND	0.0020	0.0050	"							
4-Isopropyl Toluene	ND	0.0020	0.0050	"							
Isopropylbenzene	ND	0.0020	0.0050	"							
Methylene chloride	ND	0.0020	0.0050	"							
Naphthalene	ND	0.0020	0.0050	"							
n-Propylbenzene	ND	0.0020	0.0050	"							
Styrene	ND	0.0020	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"							
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"							
Toluene	ND	0.0020	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"							
1,1,1-Trichloroethane	ND	0.0020	0.0050	"							
1,1,2-Trichloroethane	ND	0.0020	0.0050	"							
Trichloroethene (TCE)	ND	0.0020	0.0050	"							
Trichlorofluoromethane	ND	0.0020	0.0050	"							
1,2,3-Trichloropropane	ND	0.0020	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"							
Vinyl chloride	ND	0.0020	0.0050	"							
Xylenes (total)	ND	0.0020	0.0050	"							
Surrogate: Dibromofluoromethane			0.0476	"	0.0499		95	70-142			
Surrogate: Toluene-d8			0.0489	"	0.0499		98	76-123			
Surrogate: 4-Bromofluorobenzene			0.0503	"	0.0499		101	81-120			

*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.*



# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0072 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:25

### LCS (B0C0072-BS1)

Analyzed: 03/04/20 08:46

Benzene	0.0352	0.0020	0.0050	mg/kg	0.0398		88	73-136			
Chlorobenzene	0.0465	0.0020	0.0050	"	0.0398		117	78-134			
1,1-Dichloroethene	0.0350	0.0020	0.0050	"	0.0398		88	46-169			
Toluene	0.0407	0.0020	0.0050	"	0.0398		102	73-135			
Trichloroethene (TCE)	0.0412	0.0020	0.0050	"	0.0398		104	76-139			
Surrogate: Dibromofluoromethane			0.0491	"	0.0498		99	70-142			
Surrogate: Toluene-d8			0.0492	"	0.0498		99	76-123			
Surrogate: 4-Bromofluorobenzene			0.0518	"	0.0498		104	81-120			

### LCS Dup (B0C0072-BSD1)

Analyzed: 03/04/20 09:16

Benzene	0.0363	0.0020	0.0050	mg/kg	0.0398		91	73-136	3	20	
Chlorobenzene	0.0483	0.0020	0.0050	"	0.0398		122	78-134	4	20	
1,1-Dichloroethene	0.0366	0.0020	0.0050	"	0.0398		92	46-169	4	20	
Toluene	0.0426	0.0020	0.0050	"	0.0398		107	73-135	5	20	
Trichloroethene (TCE)	0.0423	0.0020	0.0050	"	0.0398		106	76-139	3	20	
Surrogate: Dibromofluoromethane			0.0492	"	0.0497		99	70-142			
Surrogate: Toluene-d8			0.0489	"	0.0497		98	76-123			
Surrogate: 4-Bromofluorobenzene			0.0520	"	0.0497		105	81-120			

### Duplicate (B0C0072-DUP1)

Source: 2001078-30

Analyzed: 03/05/20 00:42

Benzene	ND	0.0020	0.0050	mg/kg		ND					20
Bromobenzene	ND	0.0020	0.0050	"		ND					20
Bromochloromethane	ND	0.0020	0.0050	"		ND					20
Bromodichloromethane	ND	0.0020	0.0050	"		ND					20
Bromoform	ND	0.0020	0.0050	"		ND					20
Bromomethane	ND	0.0020	0.0050	"		ND					20
n-Butylbenzene	ND	0.0020	0.0050	"		ND					20
sec-Butylbenzene	ND	0.0020	0.0050	"		ND					20
tert-Butylbenzene	ND	0.0020	0.0050	"		ND					20
Carbon tetrachloride	ND	0.0020	0.0050	"		ND					20
Chlorobenzene	ND	0.0020	0.0050	"		ND					20
Chloroethane	ND	0.0020	0.0050	"		ND					20
Chloroform	ND	0.0020	0.0050	"		ND					20
Chloromethane	ND	0.0020	0.0050	"		ND					20
2-Chlorotoluene	ND	0.0020	0.0050	"		ND					20
4-Chlorotoluene	ND	0.0020	0.0050	"		ND					20
Dibromochloromethane	ND	0.0020	0.0050	"		ND					20
1,2-Dibromo-3-chloropropane	0.00778	0.0020	0.0050	"		ND					20
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"		ND					20
Dibromomethane	ND	0.0020	0.0050	"		ND					20
1,2-Dichlorobenzene	ND	0.0020	0.0050	"		ND					20
1,3-Dichlorobenzene	ND	0.0020	0.0050	"		ND					20

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0072 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:25

Duplicate (B0C0072-DUP1)	Source: 2001078-30			Analyzed: 03/05/20 00:42							
1,4-Dichlorobenzene	ND	0.0020	0.0050	mg/kg		ND					20
Dichlorodifluoromethane	ND	0.0020	0.0050	"		ND					20
1,1-Dichloroethane	ND	0.0020	0.0050	"		ND					20
1,2-Dichloroethane	ND	0.0020	0.0050	"		ND					20
1,1-Dichloroethene	ND	0.0020	0.0050	"		ND					20
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"		ND					20
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"		ND					20
1,2-Dichloropropane	ND	0.0020	0.0050	"		ND					20
1,3-Dichloropropane	ND	0.0020	0.0050	"		ND					20
2,2-Dichloropropane	ND	0.0020	0.0050	"		ND					20
1,1-Dichloropropene	ND	0.0020	0.0050	"		ND					20
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"		ND					20
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"		ND					20
Ethylbenzene	ND	0.0020	0.0050	"		ND					20
Hexachlorobutadiene	ND	0.0020	0.0050	"		ND					20
4-Isopropyl Toluene	ND	0.0020	0.0050	"		ND					20
Isopropylbenzene	ND	0.0020	0.0050	"		ND					20
Methylene chloride	ND	0.0020	0.0050	"		ND					20
Naphthalene	ND	0.0020	0.0050	"		ND					20
n-Propylbenzene	ND	0.0020	0.0050	"		ND					20
Styrene	ND	0.0020	0.0050	"		ND					20
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"		ND					20
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"		ND					20
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"		ND					20
Toluene	ND	0.0020	0.0050	"		ND					20
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"		ND					20
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"		ND					20
1,1,1-Trichloroethane	ND	0.0020	0.0050	"		ND					20
1,1,2-Trichloroethane	ND	0.0020	0.0050	"		ND					20
Trichloroethene (TCE)	ND	0.0020	0.0050	"		ND					20
Trichlorofluoromethane	ND	0.0020	0.0050	"		ND					20
1,2,3-Trichloropropane	ND	0.0020	0.0050	"		ND					20
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"		ND					20
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"		ND					20
Vinyl chloride	ND	0.0020	0.0050	"		ND					20
Xylenes (total)	ND	0.0020	0.0050	"		ND					20
Surrogate: Dibromofluoromethane			0.0476	"	0.0499		95	70-142			
Surrogate: Toluene-d8			0.0493	"	0.0499		99	76-123			
Surrogate: 4-Bromofluorobenzene			0.0507	"	0.0499		102	81-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC Level	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0072 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/04/20 08:25

Matrix Spike (B0C0072-MS1)	Source: 2001078-29	Analyzed: 03/05/20 07:18		OTWN
Benzene	0.0306	0.0020	0.0049 mg/kg	0.0395 ND 78 39-154
Chlorobenzene	0.0253	0.0020	0.0049 "	0.0395 ND 64 43-149
1,1-Dichloroethene	0.0346	0.0020	0.0049 "	0.0395 ND 88 10-190
Toluene	0.0259	0.0020	0.0049 "	0.0395 ND 66 36-154
Trichloroethene (TCE)	0.0303	0.0020	0.0049 "	0.0395 ND 77 21-190
Surrogate: Dibromofluoromethane			0.0485 "	0.0494 98 70-142
Surrogate: Toluene-d8			0.0487 "	0.0494 99 76-123
Surrogate: 4-Bromofluorobenzene			0.0516 "	0.0494 104 81-120

Batch B0C0166 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/06/20 09:33

Blank (B0C0166-BLK1)	Analyzed: 03/06/20 12:14	
Benzene	ND	0.0020 0.0050 mg/kg
Bromobenzene	ND	0.0020 0.0050 "
Bromochloromethane	ND	0.0020 0.0050 "
Bromodichloromethane	ND	0.0020 0.0050 "
Bromoform	ND	0.0020 0.0050 "
Bromomethane	ND	0.0020 0.0050 "
n-Butylbenzene	ND	0.0020 0.0050 "
sec-Butylbenzene	ND	0.0020 0.0050 "
tert-Butylbenzene	ND	0.0020 0.0050 "
Carbon tetrachloride	ND	0.0020 0.0050 "
Chlorobenzene	ND	0.0020 0.0050 "
Chloroethane	ND	0.0020 0.0050 "
Chloroform	ND	0.0020 0.0050 "
Chloromethane	ND	0.0020 0.0050 "
2-Chlorotoluene	ND	0.0020 0.0050 "
4-Chlorotoluene	ND	0.0020 0.0050 "
Dibromochloromethane	ND	0.0020 0.0050 "
1,2-Dibromo-3-chloropropane	ND	0.0020 0.0050 "
1,2-Dibromoethane (EDB)	ND	0.0020 0.0050 "
Dibromomethane	ND	0.0020 0.0050 "
1,2-Dichlorobenzene	ND	0.0020 0.0050 "
1,3-Dichlorobenzene	ND	0.0020 0.0050 "
1,4-Dichlorobenzene	ND	0.0020 0.0050 "
Dichlorodifluoromethane	ND	0.0020 0.0050 "
1,1-Dichloroethane	ND	0.0020 0.0050 "
1,2-Dichloroethane	ND	0.0020 0.0050 "
1,1-Dichloroethene	ND	0.0020 0.0050 "
cis-1,2-Dichloroethene	ND	0.0020 0.0050 "
trans-1,2-Dichloroethene	ND	0.0020 0.0050 "
1,2-Dichloropropane	ND	0.0020 0.0050 "

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch BOC0166 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/06/20 09:33

**Blank (BOC0166-BLK1)**

Analyzed: 03/06/20 12:14

1,3-Dichloropropane	ND	0.0020	0.0050	mg/kg							
2,2-Dichloropropane	ND	0.0020	0.0050	"							
1,1-Dichloropropene	ND	0.0020	0.0050	"							
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"							
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"							
Ethylbenzene	ND	0.0020	0.0050	"							
Hexachlorobutadiene	ND	0.0020	0.0050	"							
4-Isopropyl Toluene	ND	0.0020	0.0050	"							
Isopropylbenzene	ND	0.0020	0.0050	"							
Methylene chloride	ND	0.0020	0.0050	"							
Naphthalene	ND	0.0020	0.0050	"							
n-Propylbenzene	ND	0.0020	0.0050	"							
Styrene	ND	0.0020	0.0050	"							
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"							
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"							
Tetrachloroethene (PCE)	ND	0.0020	0.0050	"							
Toluene	ND	0.0020	0.0050	"							
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"							
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"							
1,1,1-Trichloroethane	ND	0.0020	0.0050	"							
1,1,2-Trichloroethane	ND	0.0020	0.0050	"							
Trichloroethene (TCE)	ND	0.0020	0.0050	"							
Trichlorofluoromethane	ND	0.0020	0.0050	"							
1,2,3-Trichloropropane	ND	0.0020	0.0050	"							
1,2,4-Trimethylbenzene	ND	0.0020	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0020	0.0050	"							
Vinyl chloride	ND	0.0020	0.0050	"							
Xylenes (total)	ND	0.0020	0.0050	"							
Surrogate: Dibromofluoromethane			0.0469	"	0.0502		93	70-142			
Surrogate: Toluene-d8			0.0488	"	0.0502		97	76-123			
Surrogate: 4-Bromofluorobenzene			0.0517	"	0.0502		103	81-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0166 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/06/20 09:33

**LCS (B0C0166-BS1)**

Analyzed: 03/06/20 10:12

Benzene	0.0356	0.0020	0.0050	mg/kg	0.0397		90	73-136			
Chlorobenzene	0.0485	0.0020	0.0050	"	0.0397		122	78-134			
1,1-Dichloroethene	0.0364	0.0020	0.0050	"	0.0397		92	46-169			
Toluene	0.0421	0.0020	0.0050	"	0.0397		106	73-135			
Trichloroethene (TCE)	0.0416	0.0020	0.0050	"	0.0397		105	76-139			
Surrogate: Dibromofluoromethane			0.0487	"	0.0496		98	70-142			
Surrogate: Toluene-d8			0.0485	"	0.0496		98	76-123			
Surrogate: 4-Bromofluorobenzene			0.0516	"	0.0496		104	81-120			

**LCS Dup (B0C0166-BSD1)**

Analyzed: 03/06/20 10:42

Benzene	0.0354	0.0020	0.0050	mg/kg	0.0401		88	73-136	0.7	20	
Chlorobenzene	0.0484	0.0020	0.0050	"	0.0401		121	78-134	0.2	20	
1,1-Dichloroethene	0.0360	0.0020	0.0050	"	0.0401		90	46-169	1	20	
Toluene	0.0418	0.0020	0.0050	"	0.0401		104	73-135	0.6	20	
Trichloroethene (TCE)	0.0415	0.0020	0.0050	"	0.0401		104	76-139	0.3	20	
Surrogate: Dibromofluoromethane			0.0489	"	0.0501		98	70-142			
Surrogate: Toluene-d8			0.0489	"	0.0501		98	76-123			
Surrogate: 4-Bromofluorobenzene			0.0527	"	0.0501		105	81-120			

**Duplicate (B0C0166-DUP1)**

Source: 2001168-02

Analyzed: 03/06/20 17:59

Benzene	ND	0.0020	0.0050	mg/kg	ND						20
Bromobenzene	ND	0.0020	0.0050	"	ND						20
Bromochloromethane	ND	0.0020	0.0050	"	ND						20
Bromodichloromethane	ND	0.0020	0.0050	"	ND						20
Bromoform	ND	0.0020	0.0050	"	ND						20
Bromomethane	ND	0.0020	0.0050	"	ND						20
n-Butylbenzene	0.0104	0.0020	0.0050	"	0.0119				13	20	ISlowA
sec-Butylbenzene	0.0269	0.0020	0.0050	"	0.0267				0.8	20	ISlowA
tert-Butylbenzene	ND	0.0020	0.0050	"	ND					20	ISlowA
Carbon tetrachloride	ND	0.0020	0.0050	"	ND					20	
Chlorobenzene	ND	0.0020	0.0050	"	ND					20	
Chloroethane	ND	0.0020	0.0050	"	ND					20	
Chloroform	ND	0.0020	0.0050	"	ND					20	
Chloromethane	ND	0.0020	0.0050	"	ND					20	
2-Chlorotoluene	ND	0.0020	0.0050	"	ND					20	ISlowA
4-Chlorotoluene	ND	0.0020	0.0050	"	ND					20	ISlowA
Dibromochloromethane	ND	0.0020	0.0050	"	ND					20	
1,2-Dibromo-3-chloropropane	ND	0.0020	0.0050	"	ND					20	ISlowA
1,2-Dibromoethane (EDB)	ND	0.0020	0.0050	"	ND					20	
Dibromomethane	ND	0.0020	0.0050	"	ND					20	
1,2-Dichlorobenzene	ND	0.0020	0.0050	"	ND					20	ISlowA
1,3-Dichlorobenzene	ND	0.0020	0.0050	"	ND					20	ISlowA

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincents Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0166 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/06/20 09:33

Duplicate (B0C0166-DUP1)	Source: 2001168-02			Analyzed: 03/06/20 17:59							
1,4-Dichlorobenzene	ND	0.0020	0.0050	mg/kg		ND				20	ISlowA
Dichlorodifluoromethane	ND	0.0020	0.0050	"		ND				20	
1,1-Dichloroethane	ND	0.0020	0.0050	"		ND				20	
1,2-Dichloroethane	ND	0.0020	0.0050	"		ND				20	
1,1-Dichloroethene	ND	0.0020	0.0050	"		ND				20	
cis-1,2-Dichloroethene	ND	0.0020	0.0050	"		ND				20	
trans-1,2-Dichloroethene	ND	0.0020	0.0050	"		ND				20	
1,2-Dichloropropane	ND	0.0020	0.0050	"		ND				20	
1,3-Dichloropropane	ND	0.0020	0.0050	"		ND				20	
2,2-Dichloropropane	ND	0.0020	0.0050	"		ND				20	
1,1-Dichloropropene	ND	0.0020	0.0050	"		ND				20	
cis-1,3-Dichloropropene	ND	0.0020	0.0050	"		ND				20	
trans-1,3-Dichloropropene	ND	0.0020	0.0050	"		ND				20	
Ethylbenzene	0.0542	0.0020	0.0050	"		0.0544			0.4	20	
Hexachlorobutadiene	ND	0.0020	0.0050	"		ND				20	ISlowA
4-Isopropyl Toluene	0.00863	0.0020	0.0050	"		0.00838			3	20	ISlowA
Isopropylbenzene	0.00238	0.0020	0.0050	"		0.00237			0.2	20	J
Methylene chloride	ND	0.0020	0.0050	"		ND				20	
Naphthalene	0.0290	0.0020	0.0050	"		0.0266			8	20	ISlowA
n-Propylbenzene	0.00879	0.0020	0.0050	"		0.00850			3	20	ISlowA
Styrene	0.00950	0.0020	0.0050	"		0.00905			5	20	
1,1,1,2-Tetrachloroethane	ND	0.0020	0.0050	"		ND				20	
1,1,2,2-Tetrachloroethane	ND	0.0020	0.0050	"		ND				20	ISlowA
Tetrachloroethene (PCE)	0.0684	0.0020	0.0050	"		0.0689			0.8	20	
Toluene	0.00590	0.0020	0.0050	"		0.00585			0.9	20	
1,2,3-Trichlorobenzene	ND	0.0020	0.0050	"		ND				20	ISlowA
1,2,4-Trichlorobenzene	ND	0.0020	0.0050	"		ND				20	ISlowA
1,1,1-Trichloroethane	0.0634	0.0020	0.0050	"		0.0646			2	20	
1,1,2-Trichloroethane	ND	0.0020	0.0050	"		ND				20	
Trichloroethene (TCE)	ND	0.0020	0.0050	"		ND				20	
Trichlorofluoromethane	ND	0.0020	0.0050	"		ND				20	
1,2,3-Trichloropropane	ND	0.0020	0.0050	"		ND				20	ISlowA
1,2,4-Trimethylbenzene	0.0632	0.0020	0.0050	"		0.0620			2	20	ISlowA
1,3,5-Trimethylbenzene	0.0263	0.0020	0.0050	"		0.0261			1	20	ISlowA
Vinyl chloride	ND	0.0020	0.0050	"		ND				20	
Xylenes (total)	0.427	0.0020	0.0050	"		0.427				0.03	20
Surrogate: Dibromofluoromethane			0.0515	"	0.0495		104	70-142			
Surrogate: Toluene-d8			0.0366	"	0.0495		74	76-123			S-03
Surrogate: 4-Bromofluorobenzene			0.0331	"	0.0495		67	81-120			S-03

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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## Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0166 - EPA 8260B Preparation: EPA 5035/5030B MEOH 03/06/20 09:33

Matrix Spike (B0C0166-MS1)	Source: 2001168-03			Analyzed: 03/07/20 02:40							
Benzene	0.0292	0.0020	0.0050	mg/kg	0.0400	0.0128	41	39-154			
Chlorobenzene	0.0316	0.0020	0.0050	"	0.0400	ND	79	43-149			
1,1-Dichloroethene	0.0296	0.0020	0.0050	"	0.0400	0.0139	39	10-190			
Toluene	0.0334	0.0020	0.0050	"	0.0400	0.0333	0.3	36-154			QM-07
Trichloroethene (TCE)	0.0275	0.0020	0.0050	"	0.0400	ND	69	21-190			
Surrogate: Dibromofluoromethane			0.0518	"	0.0500		104	70-142			
Surrogate: Toluene-d8			0.0459	"	0.0500		92	76-123			
Surrogate: 4-Bromofluorobenzene			0.0431	"	0.0500		86	81-120			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Organochlorine Pesticides by GC/ECD/ECD - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0143 - EPA 8081A Preparation: EPA 3550C 03/05/20 13:51

Blank (B0C0143-BLK1)				Analyzed: 03/06/20 14:20				C-06			
alpha-BHC	ND	0.0015	0.0030	mg/kg							
alpha-Chlordane	ND	0.0015	0.0030	"							
Aldrin	ND	0.0015	0.0030	"							
beta-BHC	ND	0.0015	0.0030	"							
delta-BHC	ND	0.0015	0.0030	"							
4,4'-DDD	ND	0.0015	0.0030	"							CCHI
4,4'-DDE	ND	0.0015	0.0030	"							
4,4'-DDT	ND	0.0016	0.0030	"							CCFL 3081
Dieldrin	ND	0.0015	0.0030	"							
Endosulfan I	ND	0.0017	0.0030	"							
Endosulfan II	ND	0.0015	0.0030	"							
Endosulfan sulfate	ND	0.0015	0.0030	"							
Endrin	ND	0.0015	0.0030	"							
Endrin aldehyde	ND	0.0015	0.0030	"							
Endrin ketone	ND	0.0016	0.0030	"							
gamma-BHC	ND	0.0015	0.0030	"							
gamma-Chlordane	ND	0.0015	0.0030	"							
Heptachlor	ND	0.0015	0.0030	"							
Heptachlor epoxide	ND	0.0015	0.0030	"							
Methoxychlor	ND	0.0015	0.0030	"							
Chlordane (tech)	ND	0.010	0.020	"							
Toxaphene	ND	0.016	0.020	"							
Surrogate: Decachlorobiphenyl			0.00775	"	0.00832		93	10-194			
Surrogate: 2,4,5,6 Tetrachloro-m-xylene			0.00581	"	0.00832		70	10-154			

LCS (B0C0143-BS1)				Analyzed: 03/06/20 13:20				C-06			
alpha-BHC	0.00480	0.0015	0.0030	mg/kg	0.00666		72	40-96			
alpha-Chlordane	0.00590	0.0015	0.0030	"	0.00666		89	54-104			
Aldrin	0.00467	0.0015	0.0030	"	0.00666		70	39-98			
beta-BHC	0.00531	0.0015	0.0030	"	0.00666		80	51-116			
delta-BHC	0.00487	0.0015	0.0030	"	0.00666		73	46-112			
4,4'-DDD	0.00582	0.0015	0.0030	"	0.00666		87	58-116			
4,4'-DDE	0.00623	0.0015	0.0030	"	0.00666		94	59-112			
4,4'-DDT	0.00704	0.0016	0.0030	"	0.00666		106	61-137			
Dieldrin	0.00598	0.0015	0.0030	"	0.00666		90	54-114			
Endosulfan I	0.00600	0.0017	0.0030	"	0.00666		90	56-110			
Endosulfan II	0.00617	0.0015	0.0030	"	0.00666		93	58-115			
Endosulfan sulfate	0.00651	0.0015	0.0030	"	0.00666		98	65-122			
Endrin	0.00670	0.0015	0.0030	"	0.00666		101	63-120			
Endrin aldehyde	0.00593	0.0015	0.0030	"	0.00666		89	54-105			
Endrin ketone	0.00638	0.0016	0.0030	"	0.00666		96	61-117			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

## Organochlorine Pesticides by GC/ECD/ECD - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%RBC	%RBC Limits	RPD	RPD Limit	Notes
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Batch B0C0143 - EPA 8081A Preparation: EPA 3550C 03/05/20 13:51

LCS (B0C0143-BS1)											
Analyzed: 03/06/20 13:20											
gamma-BHC	0.00491	0.0015	0.0030	mg/kg	0.00666		74	43-101			C-06
gamma-Chlordane	0.00580	0.0015	0.0030	"	0.00666		87	52-105			
Heptachlor	0.00548	0.0015	0.0030	"	0.00666		82	39-119			
Heptachlor epoxide	0.00611	0.0015	0.0030	"	0.00666		92	53-106			
Methoxychlor	0.00740	0.0015	0.0030	"	0.00666		111	67-149			
Surrogate: Decachlorobiphenyl			0.00758	"	0.00833		91	10-194			
Surrogate: 2,4,5,6 Tetrachloro-m-xylene			0.00530	"	0.00833		64	10-154			

LCS Dup (B0C0143-BS1)											
Analyzed: 03/06/20 13:40											
alpha-BHC	0.00469	0.0015	0.0030	mg/kg	0.00665		70	40-96	2	25	C-06
alpha-Chlordane	0.00565	0.0015	0.0030	"	0.00665		85	54-104	4	25	
Aldrin	0.00475	0.0015	0.0030	"	0.00665		71	39-98	2	25	
beta-BHC	0.00587	0.0015	0.0030	"	0.00665		88	51-116	10	25	
delta-BHC	0.00507	0.0015	0.0030	"	0.00665		76	46-112	4	25	
4,4'-DDD	0.00578	0.0015	0.0030	"	0.00665		87	58-116	0.7	25	
4,4'-DDE	0.00603	0.0015	0.0030	"	0.00665		91	59-112	3	25	
4,4'-DDT	0.00698	0.0016	0.0030	"	0.00665		105	61-137	0.8	25	
Dieldrin	0.00582	0.0015	0.0030	"	0.00665		87	54-114	3	25	
Endosulfan I	0.00572	0.0017	0.0030	"	0.00665		86	56-110	5	25	
Endosulfan II	0.00587	0.0015	0.0030	"	0.00665		88	58-115	5	25	
Endosulfan sulfate	0.00639	0.0015	0.0030	"	0.00665		96	65-122	2	25	
Endrin	0.00647	0.0015	0.0030	"	0.00665		97	63-120	3	25	
Endrin aldehyde	0.00594	0.0015	0.0030	"	0.00665		89	54-105	0.1	25	
Endrin ketone	0.00635	0.0016	0.0030	"	0.00665		95	61-117	0.5	25	
gamma-BHC	0.00492	0.0015	0.0030	"	0.00665		74	43-101	0.2	25	
gamma-Chlordane	0.00553	0.0015	0.0030	"	0.00665		83	52-105	5	25	
Heptachlor	0.00563	0.0015	0.0030	"	0.00665		85	39-119	3	25	
Heptachlor epoxide	0.00579	0.0015	0.0030	"	0.00665		87	53-106	5	25	
Methoxychlor	0.00744	0.0015	0.0030	"	0.00665		112	67-149	0.6	25	
Surrogate: Decachlorobiphenyl			0.00758	"	0.00832		91	10-194			
Surrogate: 2,4,5,6 Tetrachloro-m-xylene			0.00522	"	0.00832		63	10-154			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: 2001102 03/12/2020 19:26
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## Organochlorine Pesticides by GC/ECD/ECD - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0143 - EPA 8081A Preparation: EPA 3550C 03/05/20 13:51

Duplicate (B0C0143-DUP1)	Source: 2001102-01			Analyzed: 03/06/20 16:54							
alpha-BHC	ND	0.015	0.030	mg/kg		ND					25
alpha-Chlordane	ND	0.015	0.030	"		ND					25
Aldrin	ND	0.015	0.030	"		ND					25
beta-BHC	ND	0.015	0.030	"		ND					25
delta-BHC	ND	0.015	0.030	"		ND					25
4,4'-DDD	ND	0.015	0.030	"		ND					25
4,4'-DDE	ND	0.015	0.030	"		ND					25
4,4'-DDT	ND	0.016	0.030	"		ND					25
Dieldrin	ND	0.015	0.030	"		ND					25
Endosulfan I	ND	0.017	0.030	"		ND					25
Endosulfan II	ND	0.015	0.030	"		ND					25
Endosulfan sulfate	ND	0.015	0.030	"		ND					25
Endrin	ND	0.015	0.030	"		ND					25
Endrin aldehyde	ND	0.015	0.030	"		ND					25
Endrin ketone	ND	0.016	0.030	"		ND					25
gamma-BHC	ND	0.015	0.030	"		ND					25
gamma-Chlordane	ND	0.015	0.030	"		ND					25
Heptachlor	ND	0.015	0.030	"		ND					25
Heptachlor epoxide	ND	0.015	0.030	"		ND					25
Methoxychlor	ND	0.015	0.030	"		ND					25
Surrogate: Decachlorobiphenyl			0.00819	"	0.00831		99	10-194			
Surrogate: 2,4,5,6 Tetrachloro-m-xylene			0.00482	"	0.00831		58	10-154			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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## Polychlorinated Biphenyls by GC/ECD - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0114 - EPA 8082 Preparation: EPA 3550C 03/05/20 08:16

Blank (B0C0114-BLK1)		Analyzed: 03/06/20 19:00						C-01, C-06		
PCB-1016	ND	0.010	0.020	mg/kg						
PCB-1221	ND	0.010	0.020	"						
PCB-1232	ND	0.010	0.020	"						
PCB-1242	ND	0.010	0.020	"						
PCB-1248	ND	0.010	0.020	"						
PCB-1254	ND	0.010	0.020	"						
PCB-1260	ND	0.010	0.020	"						

Surrogate: Decachlorobiphenyl

0.00695 " 0.00833 83 25-162

Surrogate: 2,4,5,6 Tetrachloro-m-xylene

0.00521 " 0.00833 63 20-138

LCS (B0C0114-BS1)		Analyzed: 03/06/20 18:22						C-01, C-06		
PCB-1016	0.0514	0.010	0.020	mg/kg	0.0666		77	50-110		
PCB-1260	0.0550	0.010	0.020	"	0.0666		83	54-125		
Surrogate: Decachlorobiphenyl					0.00665		80	25-162		
Surrogate: 2,4,5,6 Tetrachloro-m-xylene					0.00475		57	20-138		

LCS Dup (B0C0114-BSD1)		Analyzed: 03/06/20 18:35						C-01, C-06		
PCB-1016	0.0538	0.010	0.020	mg/kg	0.0665		81	50-110	4	30
PCB-1260	0.0569	0.010	0.020	"	0.0665		86	54-125	3	30
Surrogate: Decachlorobiphenyl					0.00687		83	25-162		
Surrogate: 2,4,5,6 Tetrachloro-m-xylene					0.00517		62	20-138		

Duplicate (B0C0114-DUP1)		Source: 2001185-04		Analyzed: 03/06/20 19:38						
PCB-1016	ND	0.010	0.020	mg/kg		ND				30
PCB-1221	ND	0.010	0.020	"		ND				30
PCB-1232	ND	0.010	0.020	"		ND				30
PCB-1242	ND	0.010	0.020	"		ND				30
PCB-1248	ND	0.010	0.020	"		ND				30
PCB-1254	ND	0.010	0.020	"		ND				30
PCB-1260	ND	0.010	0.020	"		ND				30
Surrogate: Decachlorobiphenyl					0.00752		90	25-162		
Surrogate: 2,4,5,6 Tetrachloro-m-xylene					0.00539		65	20-138		

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Polychlorinated Biphenyls by GC/ECD - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0114 - EPA 8082 Preparation: EPA 3550C 03/05/20 08:16

Matrix Spike (B0C0114-MS1)		Source: 2001185-04		Analyzed: 03/07/20 00:32							
PCB-1016	0.0545	0.010	0.020	mg/kg	0.0666	ND	82	42-121			
PCB-1260	0.0480	0.010	0.020	"	0.0666	ND	72	42-130			
Surrogate: Decachlorobiphenyl			0.00421	"	0.00833		51	25-162			
Surrogate: 2,4,5,6 Tetrachloro-m-xylene			0.00541	"	0.00833		65	20-138			
Matrix Spike Dup (B0C0114-MSD1)		Source: 2001185-04		Analyzed: 03/07/20 00:45							
PCB-1016	0.0544	0.010	0.020	mg/kg	0.0666	ND	82	42-121	0.1	30	
PCB-1260	0.0499	0.010	0.020	"	0.0666	ND	75	42-130	4	30	
Surrogate: Decachlorobiphenyl			0.00517	"	0.00832		62	25-162			
Surrogate: 2,4,5,6 Tetrachloro-m-xylene			0.00554	"	0.00832		67	20-138			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
 P.O. Box 2040  
 Santa Maria CA, 93457-2040

Project: Buena Resources  
 Project Number: Vicente Lease  
 Project Manager: Dan Ringstmeyer

WO & Reported:  
 2001102  
 03/12/2020 19:26

## Semi-Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0070 - EPA 8270C Preparation: EPA 3550C MS 03/04/20 08:16

Blank (B0C0070-BLK1)

Analyzed: 03/05/20 17:58

Acenaphthene	ND	0.050	0.10	mg/kg							
Acenaphthylene	ND	0.050	0.10	"							
Aniline	ND	0.060	0.10	"							
Anthracene	ND	0.050	0.10	"							
Azobenzene	ND	0.050	0.10	"							
Benz (a) anthracene	ND	0.050	0.10	"							
Benzo (b) fluoranthene	ND	0.050	0.10	"							
Benzo (k) fluoranthene	ND	0.050	0.10	"							
Benzo (a) pyrene	ND	0.050	0.10	"							
Benzo (g,h,i) perylene	ND	0.090	0.10	"							
Benzoic acid	0.0666	0.050	0.10	"							B-07, J
Benzyl alcohol	ND	0.050	0.10	"							
Bis(2-chloroethoxy)methane	ND	0.050	0.10	"							
Bis(2-chloroethyl)ether	ND	0.050	0.10	"							
bis(2-Chloro-1-methylethyl)ether	ND	0.060	0.10	"							
Bis(2-ethylhexyl) phthalate	ND	0.050	0.10	"							
4-Bromophenyl phenyl ether	ND	0.050	0.10	"							
Butyl benzyl phthalate	ND	0.050	0.10	"							
4-Chloroaniline	ND	0.050	0.10	"							
2-Chloronaphthalene	ND	0.050	0.10	"							
4-Chlorophenyl phenyl ether	ND	0.050	0.10	"							
Chrysene	ND	0.050	0.10	"							
Dibenz (a,h) anthracene	ND	0.060	0.10	"							
Dibenzofuran	ND	0.050	0.10	"							
Di-n-butyl phthalate	ND	0.050	0.10	"							
1,2-Dichlorobenzene	ND	0.070	0.10	"							
1,3-Dichlorobenzene	ND	0.080	0.10	"							
1,4-Dichlorobenzene	ND	0.070	0.10	"							
3,3'-Dichlorobenzidine	ND	0.20	0.50	"							
Diethyl phthalate	ND	0.080	0.10	"							
Dimethyl phthalate	ND	0.050	0.10	"							
2,4-Dinitrotoluene	ND	0.060	0.10	"							
2,6-Dinitrotoluene	ND	0.050	0.10	"							
Di-n-octyl phthalate	ND	0.050	0.10	"							
Fluoranthene	ND	0.050	0.10	"							
Fluorene	ND	0.050	0.10	"							
Hexachlorobenzene	ND	0.050	0.10	"							
Hexachlorobutadiene	ND	0.060	0.10	"							
Hexachlorocyclopentadiene	ND	0.050	0.10	"							
Hexachloroethane	ND	0.080	0.10	"							
Indeno (1,2,3-cd) pyrene	ND	0.060	0.10	"							
Isophorone	ND	0.050	0.10	"							

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vincente Lease Project Manager: Dan Ringstmeyer	WO & Reported: <b>2001102</b> 03/12/2020 19:26
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## Semi-Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0070 - EPA 8270C Preparation: EPA 3550C MS 03/04/20 08:16

Blank (B0C0070-BLK1)

Analyzed: 03/05/20 17:58

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	ND	0.050	0.10	mg/kg							
Naphthalene	ND	0.050	0.10	"							
2-Nitroaniline	ND	0.050	0.10	"							
3-Nitroaniline	ND	0.050	0.10	"							
4-Nitroaniline	ND	0.060	0.25	"							
Nitrobenzene	ND	0.050	0.10	"							
N-Nitrosodimethylamine	ND	0.070	0.10	"							
N-Nitrosodi-n-propylamine	ND	0.050	0.10	"							
N-Nitrosodiphenylamine	ND	0.050	0.10	"							
Phenanthrene	ND	0.050	0.10	"							
Pyrene	ND	0.050	0.10	"							
Carbazole	ND	0.050	0.10	"							
1,2,4-Trichlorobenzene	ND	0.070	0.10	"							
4-Chloro-3-methylphenol (Parachlorometa cresol)	ND	0.050	0.10	"							
2-Chlorophenol	ND	0.060	0.10	"							
2,4-Dichlorophenol	ND	0.050	0.10	"							
2,4-Dimethylphenol	ND	0.050	0.10	"							
2,4-Dinitrophenol	ND	0.097	0.10	"							
4,6-Dinitro-2-methylphenol	ND	0.095	0.10	"							
2-Methylphenol	ND	0.070	0.10	"							
3 & 4-Methylphenol	ND	0.060	0.10	"							
2-Nitrophenol	ND	0.060	0.10	"							
4-Nitrophenol	ND	0.050	0.10	"							
Pentachlorophenol	ND	0.050	0.10	"							
Phenol	ND	0.060	0.10	"							
2,4,5-Trichlorophenol	ND	0.050	0.10	"							
Pyridine	ND	0.050	0.10	"							
2,4,6-Trichlorophenol	ND	0.050	0.10	"							
Surrogate: 2-Fluorophenol			2.00	"	2.66		75	10-156			
Surrogate: Phenol-d5			2.06	"	2.66		77	10-167			
Surrogate: Nitrobenzene-d5			2.21	"	2.66		83	10-182			
Surrogate: 2-Fluorobiphenyl			2.04	"	2.66		77	10-216			
Surrogate: 2,4,6-Tribromophenol			2.14	"	2.66		81	10-160			
Surrogate: p-Terphenyl-d14			2.28	"	2.66		86	12-180			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Semi-Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0070 - EPA 8270C Preparation: EPA 3550C MS 03/04/20 08:16

### LCS (B0C0070-BS1)

Analyzed: 03/05/20 17:00

Acenaphthene	1.26	0.050	0.10	mg/kg	1.66		76	56-130			
1,4-Dichlorobenzene	1.26	0.070	0.10	"	1.66		76	54-104			
2,4-Dinitrotoluene	1.27	0.060	0.10	"	1.66		76	67-119			
N-Nitrosodi-n-propylamine	1.22	0.050	0.10	"	1.66		73	66-120			
Pyrene	1.59	0.050	0.10	"	1.66		96	52-122			
1,2,4-Trichlorobenzene	1.49	0.070	0.10	"	1.66		90	64-103			
4-Chloro-3-methylphenol (Parachlorometa cresol)	1.46	0.050	0.10	"	1.66		88	70-123			
2-Chlorophenol	1.35	0.060	0.10	"	1.66		81	61-106			
4-Nitrophenol	1.02	0.050	0.10	"	1.66		61	54-135			
Pentachlorophenol	1.55	0.050	0.10	"	1.66		93	50-109			
Phenol	1.18	0.060	0.10	"	1.66		71	60-109			
Surrogate: 2-Fluorophenol			1.02	"	2.66		38	10-156			
Surrogate: Phenol-d5			1.36	"	2.66		51	10-167			
Surrogate: Nitrobenzene-d5			1.50	"	2.66		56	10-182			
Surrogate: 2-Fluorobiphenyl			1.46	"	2.66		55	10-216			
Surrogate: 2,4,6-Tribromophenol			2.09	"	2.66		79	10-160			
Surrogate: p-Terphenyl-d14			2.18	"	2.66		82	12-180			

### LCS Dup (B0C0070-BSD1)

Analyzed: 03/05/20 17:29

Acenaphthene	1.29	0.050	0.10	mg/kg	1.66		77	56-130	2	30	
1,4-Dichlorobenzene	1.29	0.070	0.10	"	1.66		77	54-104	2	30	
2,4-Dinitrotoluene	1.27	0.060	0.10	"	1.66		76	67-119	0.02	30	
N-Nitrosodi-n-propylamine	1.26	0.050	0.10	"	1.66		76	66-120	3	30	
Pyrene	1.56	0.050	0.10	"	1.66		94	52-122	2	30	
1,2,4-Trichlorobenzene	1.56	0.070	0.10	"	1.66		94	64-103	4	30	
4-Chloro-3-methylphenol (Parachlorometa cresol)	1.49	0.050	0.10	"	1.66		90	70-123	2	30	
2-Chlorophenol	1.40	0.060	0.10	"	1.66		84	61-106	4	30	
4-Nitrophenol	1.14	0.050	0.10	"	1.66		68	54-135	11	30	
Pentachlorophenol	1.54	0.050	0.10	"	1.66		92	50-109	1	30	
Phenol	1.25	0.060	0.10	"	1.66		75	60-109	6	30	
Surrogate: 2-Fluorophenol			1.48	"	2.66		55	10-156			
Surrogate: Phenol-d5			1.71	"	2.66		64	10-167			
Surrogate: Nitrobenzene-d5			1.86	"	2.66		70	10-182			
Surrogate: 2-Fluorobiphenyl			1.63	"	2.66		61	10-216			
Surrogate: 2,4,6-Tribromophenol			2.10	"	2.66		79	10-160			
Surrogate: p-Terphenyl-d14			2.12	"	2.66		79	12-180			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Semi-Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0070 - EPA 8270C Preparation: EPA 3550C MS 03/04/20 08:16

Duplicate (B0C9070-DUP1)	Source: 2001101-01		Analyzed: 03/09/20 12:25							
Acenaphthene	ND	0.75	1.5	mg/kg		ND				30
Acenaphthylene	ND	0.75	1.5	"		ND				30
Aniline	ND	0.90	1.5	"		ND				30
Anthracene	ND	0.75	1.5	"		ND				30
Azobenzene	ND	0.75	1.5	"		ND				30
Benz (a) anthracene	ND	0.75	1.5	"		ND				30
Benzo (b) fluoranthene	ND	0.75	1.5	"		ND				30
Benzo (k) fluoranthene	ND	0.75	1.5	"		ND				30
Benzo (a) pyrene	ND	0.75	1.5	"		ND				30
Benzo (g,h,i) perylene	ND	1.3	1.5	"		ND				30
Benzoic acid	ND	0.75	1.5	"		ND				30
Benzyl alcohol	ND	0.75	1.5	"		ND				30
Bis(2-chloroethoxy)methane	ND	0.75	1.5	"		ND				30
Bis(2-chloroethyl)ether	ND	0.75	1.5	"		ND				30
bis(2-Chloro-1-methylethyl)ether	ND	0.90	1.5	"		ND				30
Bis(2-ethylhexyl) phthalate	ND	0.75	1.5	"		ND				30
4-Bromophenyl phenyl ether	ND	0.75	1.5	"		ND				30
Butyl benzyl phthalate	ND	0.75	1.5	"		ND				30
4-Chloroaniline	ND	0.75	1.5	"		ND				30
2-Chloronaphthalene	ND	0.75	1.5	"		ND				30
4-Chlorophenyl phenyl ether	ND	0.75	1.5	"		ND				30
Chrysene	ND	0.75	1.5	"		ND				30
Dibenz (a,h) anthracene	ND	0.90	1.5	"		ND				30
Dibenzofuran	ND	0.75	1.5	"		ND				30
Di-n-butyl phthalate	ND	0.75	1.5	"		ND				30
1,2-Dichlorobenzene	ND	1.0	1.5	"		ND				30
1,3-Dichlorobenzene	ND	1.2	1.5	"		ND				30
1,4-Dichlorobenzene	ND	1.0	1.5	"		ND				30
3,3'-Dichlorobenzidine	ND	3.0	7.5	"		ND				30
Diethyl phthalate	ND	1.2	1.5	"		ND				30
Dimethyl phthalate	ND	0.75	1.5	"		ND				30
2,4-Dinitrotoluene	ND	0.90	1.5	"		ND				30
2,6-Dinitrotoluene	ND	0.75	1.5	"		ND				30
Di-n-octyl phthalate	ND	0.75	1.5	"		ND				30
Fluoranthene	ND	0.75	1.5	"		ND				30
Fluorene	ND	0.75	1.5	"		ND				30
Hexachlorobenzene	ND	0.75	1.5	"		ND				30
Hexachlorobutadiene	ND	0.90	1.5	"		ND				30
Hexachlorocyclopentadiene	ND	0.75	1.5	"		ND				30
Hexachloroethane	ND	1.2	1.5	"		ND				30
Indeno (1,2,3-cd) pyrene	ND	0.90	1.5	"		ND				30
Isophorone	ND	0.75	1.5	"		ND				30

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vicente Lease  
Project Manager: Dan Ringstmeyer

WO & Reported:  
2001102  
03/12/2020 19:26

## Semi-Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0070 - EPA 8270C Preparation: EPA 3550C MS 03/04/20 08:16

Duplicate (B0C0070-DUP1)	Source: 2001101-01			Analyzed: 03/09/20 12:25						
2-Methylnaphthalene	ND	0.75	1.5	mg/kg		0.758				30
Naphthalene	ND	0.75	1.5	"		ND				30
2-Nitroaniline	ND	0.75	1.5	"	*	ND				30
3-Nitroaniline	ND	0.75	1.5	"	*	ND				30
4-Nitroaniline	ND	0.90	3.7	"	*	ND				30
Nitrobenzene	ND	0.75	1.5	"	*	ND				30
N-Nitrosodimethylamine	ND	1.0	1.5	"		ND				30
N-Nitrosodi-n-propylamine	ND	0.75	1.5	"		ND				30
N-Nitrosodiphenylamine	ND	0.75	1.5	"		ND				30
Phenanthrene	ND	0.75	1.5	"		ND				30
Pyrene	ND	0.75	1.5	"		ND				30
Carbazole	ND	0.75	1.5	"		ND				30
1,2,4-Trichlorobenzene	ND	1.0	1.5	"		ND				30
4-Chloro-3-methylphenol (Parachlorometa cresol)	ND	0.75	1.5	"		ND				30
2-Chlorophenol	ND	0.90	1.5	"		ND				30
2,4-Dichlorophenol	ND	0.75	1.5	"		ND				30
2,4-Dimethylphenol	ND	0.75	1.5	"		ND				30
2,4-Dinitrophenol	ND	1.5	1.5	"		ND				30
4,6-Dinitro-2-methylphenol	ND	1.4	1.5	"		ND				30
2-Methylphenol	ND	1.0	1.5	"		ND				30
3 & 4-Methylphenol	ND	0.90	1.5	"		ND				30
2-Nitrophenol	ND	0.90	1.5	"		ND				30
4-Nitrophenol	ND	0.75	1.5	"		ND				30
Pentachlorophenol	ND	0.75	1.5	"		ND				30
Phenol	ND	0.90	1.5	"		ND				30
Pyridine	ND	0.75	1.5	"		ND				30
2,4,5-Trichlorophenol	ND	0.75	1.5	"		ND				30
2,4,6-Trichlorophenol	ND	0.75	1.5	"		ND				30
Surrogate: 2-Fluorophenol			1.66	"	2.67		62	10-156		
Surrogate: Phenol-d5			1.61	"	2.67		61	10-167		
Surrogate: Nitrobenzene-d5			1.62	"	2.67		61	10-182		
Surrogate: 2-Fluorobiphenyl			1.53	"	2.67		58	10-216		
Surrogate: 2,4,6-Tribromophenol			1.57	"	2.67		59	10-160		
Surrogate: p-Terphenyl-d14			2.21	"	2.67		83	12-180		

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# Oilfield Environmental & Compliance, Inc.

Buena Resources P.O. Box 2040 Santa Maria CA, 93457-2040	Project: Buena Resources Project Number: Vicente Lease Project Manager: Dan Ringstmeier	WO & Reported: 2001102 03/12/2020 19:26
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## Semi-Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B0C0070 - EPA 8270C Preparation: EPA 3550C MS 03/04/20 08:16

Matrix Spike (B0C0070-MS1)	Source: 2001101-01	Analyzed: 03/09/20 12:56									
Acenaphthene	1.59	0.75	1.5	mg/kg	1.67	ND	96	37-146			
1,4-Dichlorobenzene	1.61	1.0	1.5	"	1.67	ND	97	25-130			
2,4-Dinitrotoluene	ND	0.90	1.5	"	1.67	ND		34-132			QM-12
N-Nitrosodi-n-propylamine	ND	0.75	1.5	"	1.67	ND		53-125			QM-12
Pyrene	1.66	0.75	1.5	"	1.67	ND	100	16-155			
1,2,4-Trichlorobenzene	1.61	1.0	1.5	"	1.67	ND	97	18-148			
4-Chloro-3-methylphenol (Parachlorometa cresol)	1.09	0.75	1.5	"	1.67	ND	66	17-153			J
2-Chlorophenol	1.45	0.90	1.5	"	1.67	ND	87	27-138			J
4-Nitrophenol	ND	0.75	1.5	"	1.67	ND		10-157			QM-12
Pentachlorophenol	ND	0.75	1.5	"	1.67	ND		10-189			QM-12
Phenol	1.13	0.90	1.5	"	1.67	ND	68	25-137			J
Surrogate: 2-Fluorophenol			1.47	"	2.66		55	10-156			
Surrogate: Phenol-d5			1.49	"	2.66		56	10-167			
Surrogate: Nitrobenzene-d5			1.80	"	2.66		68	10-182			
Surrogate: 2-Fluorobiphenyl			1.31	"	2.66		49	10-216			
Surrogate: 2,4,6-Tribromophenol			1.39	"	2.66		52	10-160			
Surrogate: p-Terphenyl-d14			2.15	"	2.66		81	12-180			

Matrix Spike Dup (B0C0070-MSD1)	Source: 2001101-01	Analyzed: 03/09/20 13:27									
Acenaphthene	1.51	0.75	1.5	mg/kg	1.66	ND	91	37-146	6	30	
1,4-Dichlorobenzene	1.57	1.0	1.5	"	1.66	ND	95	25-130	3	30	
2,4-Dinitrotoluene	ND	0.90	1.5	"	1.66	ND		34-132		30	QM-12
N-Nitrosodi-n-propylamine	ND	0.75	1.5	"	1.66	ND		53-125		30	QM-12
Pyrene	1.75	0.75	1.5	"	1.66	ND	105	16-155	5	30	
1,2,4-Trichlorobenzene	1.48	1.0	1.5	"	1.66	ND	89	18-148	8	30	J
4-Chloro-3-methylphenol (Parachlorometa cresol)	0.988	0.75	1.5	"	1.66	ND	59	17-153	10	30	J
2-Chlorophenol	1.29	0.90	1.5	"	1.66	ND	78	27-138	12	30	J
4-Nitrophenol	ND	0.75	1.5	"	1.66	ND		10-157		30	QM-12
Pentachlorophenol	ND	0.75	1.5	"	1.66	ND		10-189		30	QM-12
Phenol	1.25	0.90	1.5	"	1.66	ND	75	25-137	10	30	J
Surrogate: 2-Fluorophenol			1.56	"	2.66		59	10-156			
Surrogate: Phenol-d5			1.57	"	2.66		59	10-167			
Surrogate: Nitrobenzene-d5			1.74	"	2.66		65	10-182			
Surrogate: 2-Fluorobiphenyl			1.51	"	2.66		57	10-216			
Surrogate: 2,4,6-Tribromophenol			1.49	"	2.66		56	10-160			
Surrogate: p-Terphenyl-d14			2.26	"	2.66		85	12-180			

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# Oilfield Environmental & Compliance, Inc.

Buena Resources  
P.O. Box 2040  
Santa Maria CA, 93457-2040

Project: Buena Resources  
Project Number: Vincente Lease  
Project Manager: Dan Ringstmeier

WO & Reported:  
2001102  
03/12/2020 19:26

## Notes and Definitions

- OTWN This sample was analyzed outside of the 12 hour tuning window specified in the method.
- B-07 The method blank (MB) contains target analyte above the MDL or RL, however the sample result for this analyte is ND. Data is not impacted.
- C-01 To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665, which is specific to hydrocarbon contamination.
- C-06 To reduce matrix interference, the sample extract has undergone pentane clean-up, which is specific to contamination from high molecular weight material (asphaltenes).
- CCFL 8081 Target analyte exceeded 15% deviation in bracketing CCV. Per EPA 8081A, calibration was verified by <15% average deviation for all targets. The CCV response for this analyte was low.
- CCHI The CCV for this analyte failed high. Analyte result is ND. Data is not impacted.
- D-04 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- HT-pH Water pH should be analyzed within 15 minutes of sampling. Soil pH should be analyzed as soon as possible.
- >212 >212
- J Detected but below the RL/PQL; therefore, result is an estimated concentration.
- TMP3 Temperature [Out-Acceptable] Direct from Field
- QL-02 The spike recovery is outside the control limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery and/or RPD values.
- QM-12 The spike recoveries for the MS and/or MSD are not available due to sample dilution required from high analyte concentration and/or matrix interference(s).
- QR-04 The RPD exceeded the QC control limits.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- R-07 Reporting limits are at or below state/federal hazardous waste criteria limits.
- S-03 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ISlowA The internal standard associated with this analyte fails the method criteria on the low side. Results may be biased high.
- MDL Method Detection Limit
- RL Reporting Limit (Quantitation Limit)
- ND Analyte NOT DETECTED at or above the method limit (MDL)
- RPD Relative Percent Difference

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.



**Oilfield Environmental and Compliance**  
 307 Roemer Way Suite 300, Santa Maria, CA 93454  
 Phone: (805) 922-4772 Fax: (805) 925-3376 www.oecusa.com

**CHAIN OF CUSTODY**

101 Addison Way, Taft, CA 93268  
 Phone: (805) 762-9143

<b>Company:</b> Buena Resources, Inc. <b>Address:</b> P.O. Box 2040 <b>City/State/Zip:</b> Santa Maria, CA 93457-2040 <b>Phone:</b> 805-346-1766 <b>Report To:</b> D. Ringstamyer <b>Report Format(s):</b> FAX <input type="checkbox"/> PDF <input type="checkbox"/> 5 Days (std) <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day <input type="checkbox"/> ASAP <input type="checkbox"/> <b>Turnaround Time:</b> 10 Days <input type="checkbox"/> 5 Days (std) <input type="checkbox"/> 3 Days <input type="checkbox"/> 2 Days <input type="checkbox"/> 1 Day <input type="checkbox"/> ASAP <input type="checkbox"/> <small>NOTE: Samples received after 4:00PM will be considered as received the next business day</small>		<b>Project Name/ID:</b> Vincente Lease <b>Site:</b> <b>Analysis Requested:</b> 9081 Pesticides 8082 PCBs 8270 SIMMS + SM Profile		<b>Special Instructions:</b> cc report to						
<b>email:</b> <a href="mailto:Dan@buena-res.com">Dan@buena-res.com</a> <b>Sampler:</b> D. Ringstamyer <b>Col/LIFT EDF:</b> <input type="checkbox"/> EDD <input type="checkbox"/>		<b>Client Sample ID</b>		<b>Matrix Key*:</b> A = air / vapor AQ = aqueous DW = drinking water F = fish GW = ground water P = product / oil PW = product water S = solid / sediment SW = surface water WWP = wipe WWT = waste water						
<b>OEC Sample ID</b> 2001102 - 01 -02 -03 -04 -05 -06 -07 -08 -09 -10 -11 -12	<b>Date/Time Sampled</b> 2/16/13 2/16/13 9:30 9:30 9:35 9:32 10:00 10:02 10:04 10:05 11:28	<b>Matrix# (see key) / Cont.</b> S / 1 S / 1 S / 1 S / 1 S / 1 S / 1 S / 1 S / 1 S / 1 S / 1 S / 1	<b>Client Sample ID</b> Cellar W 13-1A 13-3 Cellar - S. Wall 13-3 Cellar - Bottom 13-3 Cellar - W. Wall SEE NOTES BELOW 13-3 Cellar - N. Wall 13-3 Cellar - E. Wall 13-1A Cellar - W. Wall 13-1A Cellar - S. Wall 13-1A Cellar - N. Wall 13-1A Cellar - Bottom	<b>TPH g/dm by 8015</b> X X X X X X X X X X X	<b>VOCA by 8280B</b> X X X X X X X X X X X	<b>CAMS</b> X X X X X X X X X X X	<b>9081 Pesticides</b> X X X X X X X X X X X X	<b>8082 PCBs</b> X X X X X X X X X X X X	<b>8270 SIMMS</b> X X X X X X X X X X X X	<b>Special Instructions:</b> See Below
<b>Relinquished By:</b> <i>[Signature]</i> Date: 2/16/13 Time: 1:25p		<b>Received By:</b> <i>[Signature]</i> Date: 2/18/13 Time: 1:25p		<b>Comments/POK:</b> Ticket # 148 IF TPH-g or d-100 ppm; Then analyze for VOCs by 8260b IF TPH d or m-100 ppm; then analyze for 8270 SIMMS IF total TPH >100; then analyze for pesticides and CAMS						



# Sample Receipt

Web Order Receipt is Empty

Work Order

2001102

Refresh

Client Name

Buena Resources

Temp °C

14.8

Refrigerator(s)

IS, V001

Login

02/28/2020  
13:25

COC Received

02/28/2020  
13:25

Refrigerated Container, Acceptable Range 0°C to 8°C (See Exceptions Menu Below)

## Sample Transport

- OEC Courier/Sampler
- Delivery (Other than OEC)
- Custody Seals  None Present
- Cooler(s)  Present, Intact
- Sample(s)  Present Intact
- After Hours Drop Off
- Shipment Carrier
- Present, Not Intact
- Present, Not Intact
- None
- None

## Condition/Preservation

- Received On Ice Within Range (Acceptable)
- Received Outside Range (Acceptable)
- Direct from Field on Ice
- Ambient: Air or Filler Matrix
- Received Ambient, Placed on Ice
- Sample Temperature Acceptable for Analysis
- Received Outside Range [Exception]\*
- Insufficient Ice or Unknown
- Excessive Free Liquid
- Completed COCs Received with Sample(s)  Yes  No
- Correct Container(s) Preserve for Analysis  Yes  No
- Container(s) Intact and Good Condition  Yes  No
- Container Label(s) Consistent with COC  Yes  No
- OEC Preservation Added\*\*  Yes  No
- Sample Quantity Sufficient  Yes  No

Containers, COC Changes, And/OR Corrections

Container ID (COC)	Container Description	Home	Matrix	Preservative	pt-/Chlorine /Sulfur	Comments
01A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
01B	20mL VOA	Fridge 8 - Walk-In	Solid			
02A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
02B	20mL VOA	Fridge 8 - Walk-In	Solid			
03A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
03B	20mL VOA	Fridge 8 - Walk-In	Solid			
04A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
04B	20mL VOA	Fridge 8 - Walk-In	Solid			
05A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
05B	20mL VOA	Fridge 8 - Walk-In	Solid			
06A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
06B	20mL VOA	Fridge 8 - Walk-In	Solid			
07A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
07B	20mL VOA	Fridge 8 - Walk-In	Solid			
08A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
08B	20mL VOA	Fridge 8 - Walk-In	Solid			
09A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
09B	20mL VOA	Fridge 8 - Walk-In	Solid			
10A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
10B	20mL VOA	Fridge 8 - Walk-In	Solid			
11A	16oz Glass WM	Fridge 8 - Walk-In	Solid			
11B	20mL VOA	Fridge 8 - Walk-In	Solid			

Receipt Login By: JPS-02/28/20 02:16

Receipt Reviewed By: JPS-02/28/20 02:40

### Case Narrative

Example 1102-01 Sampling date and time listed as 02/28/20 02:18, COC says 02/27/20 02:18. Will contact client for corrections.

# **APPENDIX D**

## **Site Photographs**



Excavating Well 13-3.



Trenching for the sump at well 13-3.







**Trench sidewall at well 13-3.**



**Removed soil from the trenches at well 13-3.**





Trenching at Well 13-3.



Material on top of RCP near 13-1A.





RCP near Well 13-1A.



Crude oil at Well 13-1A.





Impacted soil  
at Well 13-1A.



Well 13-3





Well 13-3



Sidewalls at well 13-3





Sidewalls at well 13-3



Well 13-1A





Sidewalls  
at well 13-1A



Breaking out  
concrete floor





Excavating soils  
at well 13-1A



Loading concrete  
into bin

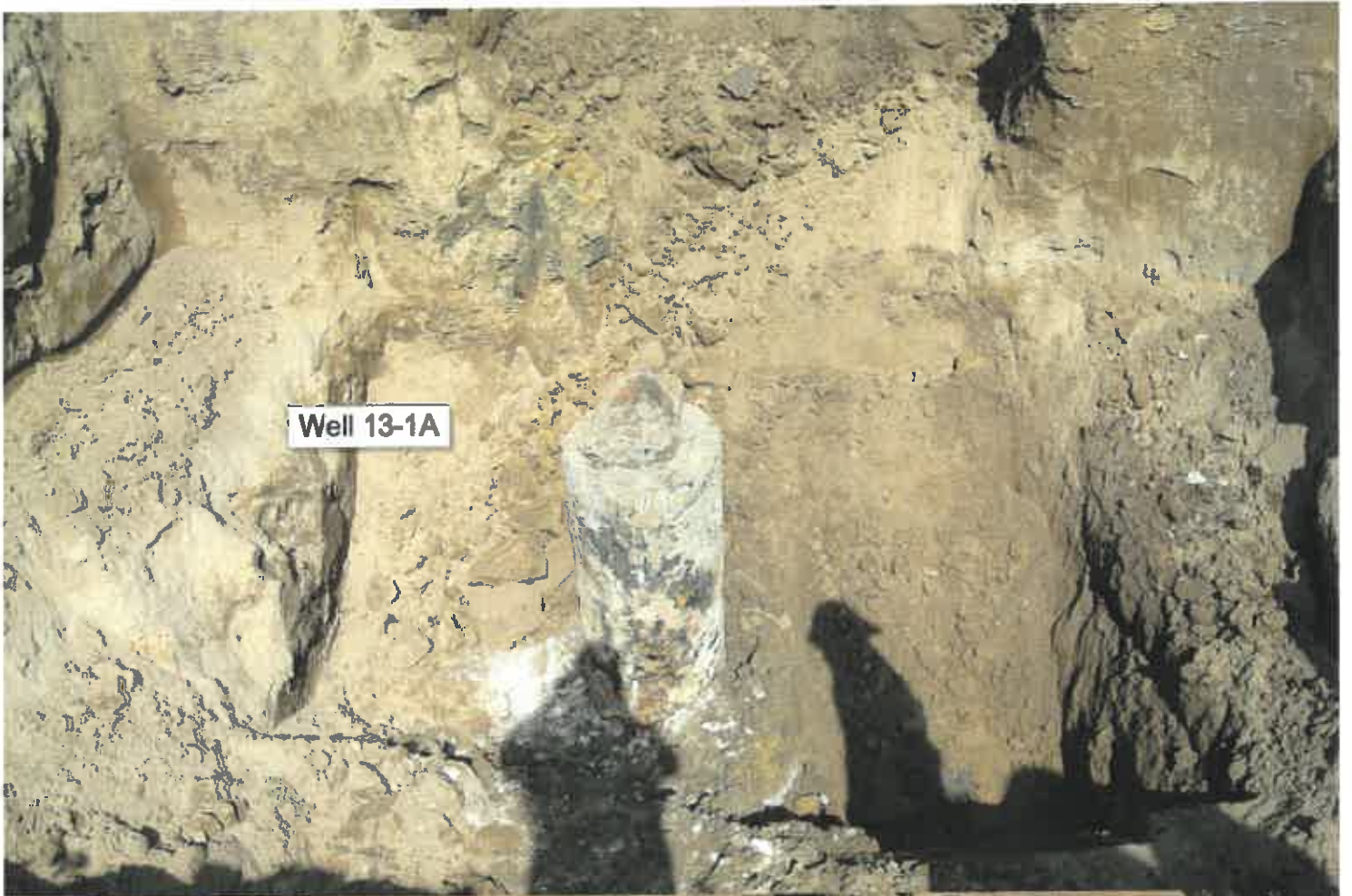


Loading impacted soils into bin



DOGGR Inspector  
Justin LaForge





Well 13-1A



Sampling bottom of Well 13-1A





**Ramping down to  
get bottom soils at  
well 13-1A**

# **APPENDIX E**

## **Statement of Qualifications**

## **STATEMENT OF QUALIFICATIONS**

**Buena Resources, Inc.** is a locally owned and operated full-service environmental company providing environmental consulting, field services and analytical services. Our environmental professionals are experienced in Phase I assessment, Phase II subsurface investigations and Phase III remediation. Our staff consists of professional engineers and environmental technicians. All of our field personnel are OSHA 40 hour trained to perform environmental work when hazardous chemicals are involved. Clients for whom we've performed our services include major oil company, large utilities, industrial facilities, lending institutions, real estate developers and property owners and sellers.

The following professionals performed work related to this project:

**Mr. Daniel Ringstmeyer** is a Registered Professional Engineer, Colorado and California, Registered Environmental Assessor, Certified OSHA 40-Hour Trained worker, 8-Hour Trained Haz-mat Supervisor and a licensed California General Engineering Contractor. Mr. Ringstmeyer holds a bachelors of science in civil engineering from the South Dakota State University. He is the Founder/Owner and Principal Engineer of **Buena Resources, Inc.** and **CIRRUS Environmental, Inc.** He is the Principle Engineer responsible for all work performed by the environmental consulting/contracting firm. Mr. Ringstmeyer has conducted Phase I ESA assessments, Phase II subsurface investigations and Phase III remediation projects for sites throughout California and Mexico. He has designed and managed many successful remediation projects utilizing soil vapor extraction/thermal oxidation, bioremediation, groundwater pump and treat, and carbon adsorption throughout California and Mexico including the closure of a large Class I TSD Landfill facility. He has also directly been responsible for the closure of several idled oil fields and illegal agriculture landfills.