



P. O. Box 7192 (zip 71137-7192)
1000 Grimmett Dr.
Shreveport, LA 71107
Phone: (318) 222-2424
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May 6, 2019

Mr. Todd Emmert
Elm Springs, Inc.
P. O. Box 58
Shongaloo, LA 71072-0058

Re: LDNR – April 13, 2019 Air Sampling Project
Davis Property
Israelite Road
DeSoto Parish, LA

Dear Mr. Emmert:

Approach Environmental, LLC (Approach Environmental) was retained by the Louisiana Department of Natural Resources (LDNR) to collect air samples at the referenced property due to reported “bubbling” at the ground surface after rainfall during the afternoon of April 13, 2019. Please refer to the following GoogleEarth aerial photo depicting the location of the Davis Property.



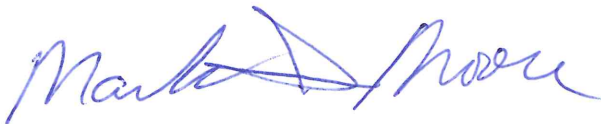
Davis Property

The sampling activities included observation and documentation of site conditions (observations were made with flashlight and truck headlights due to darkness), obtaining GPS Coordinates (via hand-held GPS) and air sampling. Upon arrival on-site, one (1) sample point was determined based on observation of bubbles seeping from the ground surface. The sample point was basically the same as the “South” sample location from the March 24, 2019, sampling event. Duplicate samples were collected from the sampling point using laboratory-specific containers in accordance with laboratory and method-specific sampling protocol. The samples were collected by an experienced Environmental Scientist that was present and assisted with the March 24, 2019, sampling event. The sample locations are depicted on the previous GoogleEarth aerial photograph.

A new 5-gallon bucket with pre-drilled holes in the base was placed over the bubbles seeping from the surface water and allowed to fill with the gas for approximately 5 minutes to be sure that an adequate amount of sample was to be obtained. A new, decontaminated, hand pump was attached to the pre-drilled hole in the bucket and pumped for approximately 30 seconds to purge the pump. A sample bag was, then, attached to the end of the pump and pumped until the gas bag was properly filled with enough sample. This process was completed with new tubing, bucket and pump. Each gas bag was labeled with the proper sampling documentation. Samples were submitted to IsoTech Laboratory for Hydrocarbon analysis according to GPA method 2261-13. The analytical laboratory report is included herein for review and future reference.

Should you have any questions and/or comments, please do not hesitate to contact me at (318) 222-2424, via my cell at (318) 401-0085, or via e-mail at marksm@approachenv.com.

Sincerely,



Mark S. Moore
Approach Environmental, L.L.C.

Encl./

Lab #: 715530 Job #: 41340 IS-99404 Co. Job#:
 Sample Name: Davis South - 4.13.19 Co. Lab#:
 Company: Approach Environmental, LLC
 API/Well:
 Container: IsoBag
 Field/Site Name: Davis Property
 Location: Israelite Rd
 Formation:
 Sampling Point:
 Date Sampled: 4/13/2019 20:48 Date Received: 4/16/2019 Date Reported: 4/29/2019

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	δD ‰	$\delta^{15}\text{N}$ ‰
Carbon Monoxide -----	nd			
Helium -----	nd			
Hydrogen -----	nd			
Argon -----	0.933			
Oxygen -----	20.75			
Nitrogen -----	78.15			
Carbon Dioxide -----	0.17			
Methane -----	0.0018			
Ethane -----	nd			
Ethylene -----	nd			
Propane -----	nd			
Propylene -----	nd			
Iso-butane -----	nd			
N-butane -----	nd			
Iso-pentane -----	nd			
N-pentane -----	nd			
Hexanes + -----	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0

Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

1308 Parkland Court Champaign, IL 61821-1826 | 877.362.4190 217.398.3490 217.398.3493 Fax

SEND DATA TO:

 Name: Mark Moore
 Company: Approach Environmental
 Address: P.O. Box 7192
 City/State: Shreveport, LA 71137
 Phone: 318-401-0085
 Email: marksm@approachenv.com
SEND INVOICE TO: (if different from SEND DATA TO:)

 Name: _____
 Company: _____
 Address: _____
 City/State: _____
 Phone: _____
 Email: _____

 Project: Davis Property
 Location: Israelite Rd

 Purchase Order #: _____
 Sampled By: HW

 Select One: Standard Priority Rush

Sample Description				Analyses Requested			Comments
Container Number	Sample Identification	Date Sampled	Time				
	<u>Davis South-4.13.19</u>	<u>4-13-2019</u>	<u>2048</u>	<u>X</u>			
	<u>Davis South-4.13.19-D</u>	<u>4-13-2019</u>	<u>2050</u>	<u>X</u>			

Chain-of-Custody Record

Signature	Company	Date	Time
Relinquished by <u>Hint West (FedEx)</u>	<u>Approach Environmental</u>	<u>4-15-19</u>	<u>1715</u>
Received by <u>Brian Francis / Isotech Labs</u>		<u>APR 16 2019</u>	<u>9:30</u>
Relinquished by			
Received by			
Relinquished by			
Received by			



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