

Lab #: 689014      Job #: 39898      IS-79658      Co. Job#: \_\_\_\_\_  
 Sample Name: Evans RSW Split      Co. Lab#: \_\_\_\_\_  
 Company: GSI Environmental Inc.  
 API/Well: \_\_\_\_\_  
 Container: IsoFlask  
 Field/Site Name: 4927 XTO Desoto  
 Location: \_\_\_\_\_  
 Formation/Depth: \_\_\_\_\_  
 Sampling Point: \_\_\_\_\_  
 Date Sampled: 10/19/2018      Date Received: 10/29/2018      Date Reported: 11/05/2018

Component	Chemical mol. %	$\delta^{13}\text{C}$ ‰	$\delta\text{D}$ ‰	$\delta^{18}\text{O}$ ‰	Dissolved gas cc/L	Dissolved gas ppm
Carbon Monoxide -----	nd					
Helium -----	na					
Hydrogen -----	nd					
Argon -----	1.63					
Oxygen -----	3.18					
Nitrogen -----	79.75					
Carbon Dioxide -----	15.43					
Methane -----	0.0058				0.0015	0.00099
Ethane -----	nd				< 0.0002	< 0.0002
Ethylene -----	nd					
Propane -----	nd				< 0.0002	< 0.0003
Propylene -----	nd					
Iso-butane -----	nd					
N-butane -----	nd					
Iso-pentane -----	nd					
N-pentane -----	nd					
Hexanes + -----	nd					

**Remarks:**

Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.82

\*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen. Insufficient C1-C3 concentrations for isotopic analysis.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.