

## Exercise #4: Soil Gas Vapor Intrusion Screening (Case Study)

### **SG-5—Analytical Data** (sample depth 9.5')

Substance	Benzene		Ethyl-benzene		Cumene		MTBE		Naphthalene		Toluene		1,2,4-TMB		1,3,5-TMB		Xylenes	
CAS No.	71-43-2		100-41-4		98-82-8		1634-04-4		91-20-3		108-88-3		95-63-6		108-67-8		1330-20-7	
Units	µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>		µg/m <sup>3</sup>	
Date																		
6/5/2015	7.5		15		8.1	J	3.2	J	8.9	J	31		30		14		72	
9/16/2015	13		110		12		2.2	J	11		260		200		65		480	
<b>Outdoor Ambient Sample Data</b>																		
6/5/2015	1.5	J	2.0	J	2.0	U	1.4	U	5.2	U	2.7	J	2.0	J	2.0	U	6.3	J
9/16/2015	1.0	J	8.1		1.0	U	2.1	J	2.6	U	7.6		2.1	J	1.0	U	33	
<b>VI Screening Values</b>																		
Standard	SSS		SSS		SHS		SSS		SSS		SSS		SSS		SSS		SSS	
Statewide Health Standard SV																		
Site-Specific Standard SV																		
RSL-based Site-Specific Standard SV																		
Exceed? (yes/no)																		