

Exercise #2: Groundwater Vapor Intrusion Screening (Case Study)

MW-7D—Analytical Data

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
SHS MSC	5	700	840	20	100	1,000	15	420	10,000
Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Date									
6/5/2015	524	472	96	30	373	2.6	1080	410	952
9/15/2015	556	822	116	28	411	0.5 U	1550	460	1587
12/16/2015	374	623	95	31	298	3.3	1210	336	1320
3/8/2016	554	444	76	32	371	4.9	1170	346	1405
6/9/2016	889	1900	202	25	778	7.8	2670	794	4710
9/14/2016	802	1390	161	0.5 U	602	6.4	1700	510	2954
VI Screening Values									
Ground-water Screening Value									
Exceed? (yes/no)									

Bolded data entries indicate exceedences of Statewide health standard MSCs.

MW-7D—Depth-to-Water Data

Well	Top of Casing Elevation (ft)	Date	Depth to Water (ft)	Groundwater Elevation (ft)
MW-7D	27.05	6/5/2015	25.92	1.13
<i>S offsite</i>		9/15/2015	26.05	1.00
Screen:		10/22/2015	26.19	0.86
19.9–34.9'		12/16/2015	26.56	0.49
		3/8/2016	26.25	0.80
		6/9/2016	25.87	1.18
		9/14/2016	25.81	1.24