

TABLE 1A.1
1,4-DIOXANE CONCENTRATION DATA – SOURCE AREA GROUNDWATER MONITORING LOCATIONS

Dartmouth College, Rennie Farm Site
Hanover, New Hampshire
DES Site #201111109, DES Project #27737

Date Sampled	GZ-1/R	GZ-2	GZ-3	GZ-4	GZ-12L	GZ-13L	GZ-14U	GZ-14L	GZ-18U	GZ-18L	GZ-19U	GZ-19L	GZ-20U	GZ-20L	GZ-22U	GZ-23U	GZ-43U
11/20/2009	-	-	-	-													
10/12/2010	-	-	-	-													
5/19/2011	-	-	-	-													
10/27/2011	-	-	-	-													
11/29/2011	<50	<50	<50	<50													
12/5/2011	-	-	-	-													
12/12/2011	-	-	-	-													
12/19/2011	-	-	-	-													
4/19/2012	-	150	<50	<50													
5/23/2012	-	190	<50	<50													
7/25/2012	-	250/370*	<50/30*	-													
11/30/2012	-	160/220*	<50/32*	-													
3/13/2013	-	170/220*	<50/-0.25*	<50/1.4*													
6/20/2013	-	90/71*	<50/3.9*	<50/0.59*													
7/31/2013	-	120/150*	<50/4.2*	<50/0.37*													
9/25/2013	-	140/120*	<50/25*	<50/-0.25*													
12/19/2013	-	90/94*	<50/59*	<50/-0.25*													
4/17/2014	-	<50/9.6*	<50/19*	<50/-0.25*													
6/12/2014	-	<50/91*	<50/2.7*	<50/-0.25*													
8/22/2014	dry	160	21	dry													
9/5/2014	-	-	-	-													
7/8/2015	<0.25	47	2.7	<0.25													
7/22/2015	-	-	-	-													
9/15/2015	-	-	-	-													
10/1/2015	-	-	-	-													
11/10/2015	-	-	52	-													
12/9/2015	-	37/40	38	-													
1/6/2016	-	15	17	-													
2/11/2016	-	27	8.5	-	2.4	0.65	550	27									
2/19/2016	-	-	-	-	-	-	-	-									
3/8-9/2016	-	13	4.4	-	1.5	0.45	600	13									
4/11/2016	-	21	4.3	-	0.96	0.39	560	27									
4/21/2016	-	-	-	-	-	-	-	-									
5/11-13/2016	-	51	2.1	-	-	-	500	49									
6/23-24/2016	-	90	4.8	-	-	-	dry	170	89	67	51	19	dry	3.2	dry	dry	
7/18-19/2016	-	98	dry	-	dry	dry	dry	dry	dry	70	dry	68	dry	6.8	dry	dry	
8/18/2016	-	dry	dry	-	dry	dry	dry	dry	dry	dry	dry	dry	dry	13	dry	dry	
9/15-20/2016	-	-	dry	dry	dry	dry	dry	dry	dry	dry	dry	-	dry	16	-	dry	
10/27/2016	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	-	dry	20	-	dry	
11/29/2016	-	dry	dry	-	-	-	-	250	-	190	-	73	-	-	-	-	
12/2-8/2016	-	75	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
12/28-29/2016	-	74	15	dry	dry	1.8	34	120	dry	88	dry	53	dry	43	dry	<0.25	
1/18/2017	-	-	-	-	-	-	-	-	97	-	dry	-	dry	-	-	dry	dry
1/24/2017	-	37	37	-	-	-	-	81	-	-	-	-	-	10	-	-	dry
2/21-24/2017	-	50	64	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8
3/27-29/2017	-	4.0	33	-	-	-	-	39	-	-	-	-	37	2.7	-	-	-
4/24/2017	-	9.6	20	-	-	-	140	23	-	-	-	-	-	-	-	-	12
5/17/2017	<0.25	24	12	-	-	-	-	58	-	30	dry	-	-	-	-	-	-
6/19/2017	dry	15	15	dry	dry	-	dry	180	dry	15	dry	42	dry	-	-	-	-
7/27/2017	dry	dry	dry	dry	dry	-	dry	dry	dry	5.1	dry	dry	dry	0.85	-	dry	-
8/25/2017	-	dry	dry	dry	dry	dry	-	-	dry	dry	dry	dry	dry	4.2	-	dry	-
9/28/2017	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	4.5	dry	dry	dry
12/11-22/2017	-	dry	-	-	-	-	dry	dry	-	-	-	-	-	-	-	-	-
3/22/2018	-	dry	48	-	-	-	dry	36	dry	14	dry	dry	dry	1.4	Could not locate	dry	-
6/22/2018	-	8.9	-	-	-	-	dry	dry	-	-	-	-	-	-	-	-	-
9/10/2018	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	5.8	Could not locate	dry	dry
12/14-20/2018	-	2.5	-	-	-	-	dry	120	-	-	-	-	-	-	-	-	-
3/19-22/2019	-	dry	19	-	-	-	-	150	-	20	-	-	<0.2	0.97	Could not locate	-	-
6/21/2019	-	16	-	-	-	-	dry	110	-	-	-	-	-	-	-	-	-
9/12/2019	dry	27	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	30	Could not locate	dry	dry
12/13/2019	-	5.9	-	-	-	-	dry	27	-	-	-	-	-	-	-	-	-
3/11/2020	-	1.1	5.7	-	-	-	-	5.5	40	0.86	3.6	0.57	4.5	<0.2	0.74	25	<0.2
6/9/2020	-	10	-	-	-	-	dry	dry	-	-	-	-	-	-	-	-	-

- Notes:
1. Data indicate concentrations of 1,4-dioxane in micrograms per liter.
 2. "<C>" indicates that 1,4-dioxane was not detected above the referenced reporting limit.
 3. "/" indicates results of labeled and blind duplicate sample, respectively.
 4. "-" indicates sampling location not included in respective sampling round.
 5. "dry" indicates no water in monitoring well at the time of the respective sampling round.
 6. "Value/Value*" indicates analysis for 1,4-dioxane performed using EPA Method 8260B and 8260B SIM, respectively.
 7. Shaded cells indicate well location was not installed at the time of the referenced sampling round.

TABLE IA.2
1,4-DIOXANE CONCENTRATION DATA – SITE DOWN / SIDEGRADIENT MONITORING LOCATIONS

Dartmouth College, Rennie Farm Site
Hanover, New Hampshire
DES Site #201111109, DES Project #27737

Date Sampled	GZ-5U	GZ-5L	GZ-6	GZ-7U	GZ-7L	GZ-8U	GZ-8L	GZ-9U	GZ-9L	GZ-9D	GZ-10U	GZ-10L	GZ-11U	GZ-11L	GZ-15L	GZ-16D	GZ-17L	GZ-24U	GZ-24L	GZ-24D	GZ-29L	GZ-30U	GZ-30L	GZ-31L	AS-W5W	Dug Well	
11/20/2009																											
10/12/2010																											
5/19/2011																											
10/27/2011																											
11/29/2011																											
12/5/2011																											
12/12/2011																											
12/19/2011																											
4/19/2012																											
5/23/2012																											
7/25/2012																											
11/30/2012																											
3/13/2013																											
6/20/2013																											
7/31/2013																											
9/25/2013																											
12/19/2013																											
4/17/2014																											
6/12/2014																											
8/22/2014	12/11	9.1	24	dry	2.1																						Location not included in prior sampling rounds
9/5/2014	13	8.8	dry	dry	3.1																						<50/1.8*
7/8/2015	8.7	4.9	17	5.9	1.1	<0.25	<0.25	<0.25	270			<0.25	0.93/1.0	<0.25	<0.25											<50/1.5*	
7/22/2015	-	-	-	-	-	<0.25	<0.25	<0.25	520			<0.25	1.5	<0.25	<0.25											<50/1.2*	
9/15/2015	-	-	-	-	-	-	-	-	300/380*			-	<50/1.6*	-	-												2.0
10/1/2015	-	-	-	-	-	-	-	-	-			-	-	-	-												1.1
11/10/2015	-	-	-	-	-	-	-	-	350			-	1.1	-	-												-
12/9/2015	-	-	-	-	-	-	-	-	340			-	1.3	-	-												2.8/3.0
1/6/2016	-	-	-	-	-	-	-	-	300			-	1.2	-	-												-
2/11/2016	-	-	-	-	-	-	-	-	290			-	1.2	-	-												1.5
2/19/2016	-	-	-	-	-	-	-	-	75			-	-	-	-												1.6
3/8-9/2016	-	-	-	-	-	-	-	-	160			83	0.90	-	-												-
4/11/2016	-	-	-	-	-	<0.25	<0.25	<0.25	77			94	<0.25	0.95	<0.25	<0.25											1.1
4/21/2016	-	-	-	-	-	-	-	-	-			-	-	-	-												0.93
5/11-13/2016	-	-	11	-	-	-	-	-	160			-	0.57	-	-												-
6/23-24/2016	-	-	-	-	-	-	-	-	210			180	0.97	-	-												0.95
7/18-19/2016	-	-	-	-	-	-	-	-	180			190	1.4	-	-												1.7
8/18/2016	dry	6.9	dry	dry	1.4	-	-	-	190			210	2.2	-	-												1.6
9/15-20/2016	dry	12	dry	-	-	-	-	-	180			190	2.2	-	-												2.3
10/27/2016	dry	32	dry	dry	1.1	-	-	dry	120			160	dry	-	-												3.3
11/11/2016	-	-	-	-	-	-	-	-	-			-	-	-	-												-
11/22-29/2016	-	-	-	-	-	-	-	-	-			-	-	-	-												-
12/2-8/2016	dry	13	0.50	dry	0.43	dry	-	dry	160			120	<0.25	0.67	<0.25	<0.25											3.6
12/28-29/2016	dry	7.8	dry	dry	0.39	dry	-	<0.25	110			110	1.6	-	-												1.6
1/10-18/2017	-	-	-	-	-	-	-	-	-			-	-	-	<0.25	-	-	<0.25	-	-	<0.25	<0.25	<0.25	-	-	-	-
1/24-25/2017	6.2	6.8	2.8	-	2.9	-	-	-	88			86	2.1	-	-												2.8
2/21-24/2017	-	9.3	-	-	1.1	-	-	-	76			230	1.8	-	<0.25	-	-	-	-	-	-	-	-	-	-	-	3.9
3/27-29/2017	3.7	11	-	-	-	-	-	-	120			200	1.2	-	-												1.6
4/24/2017	5.0	11	4.3	5.4	2.3	-	-	-	64			6.7	0.65	-	-												0.97
5/17/2017	4.1	5.1	-	-	-	-	-	-	52			46	0.81	-	-												0.64
6/19-20/2017	2.6	2.8	2.9	3.8	0.45	-	dry	-	71			22	dry	1.1	-	-											0.35
7/27/2017	1.4	2.9	-	0.69	-	-	-	-	93			23	dry	-	-	-											0.46
8/25/2017	dry	4.8	dry	dry	1.8	-	-	-	120			22	-	1.4	-	-											-
9/27-29/2017	dry	5.7	dry	dry	1.2	<0.25	<0.25	<0.25	110			22	dry	1.6	<0.25	<0.25	<0.25	<0.25	1.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-
12/11-22/2017	-	-	-	-	-	-	-	-	25			21	-	-	-	-											-
3/22/2018	0.33	2.7	1.2	1.6	0.60	<0.25	dry	-	3.2			15	2.1	<0.25	<0.25	<0.25	<0.25	1.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-
6/19/2018	-	-	-	-	-	-	-	-	66			13	-	-	-	-											-
9/10/2018	dry	2.8	dry	dry	1.6	<0.25	dry	<0.25	130			14	dry	1.3	dry	<0.2	<0.25	<0.25	0.53	<0.25	<0.25	<0.25	<0.2	<0.25	<0.25	<0.25	-
12/14-20/2018	-	-	-	-	-	-	-	-	110			11	-	-	-	-											-
3/19-22/2019	0.44	1.6	0.30	-	0.42	<0.2	-	-	12			13	0.26	<0.2	<0.2	<0.2	<0.2	1.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
6/21-26/2019	-	-	-	-	-	-	-	-	19			12	-	-	-	-											-
9/12/2019	dry	2.5	dry	dry	1.5	<0.2	dry	<0.2	55			14	dry	0.39	dry	<0.2	<0.2	0.92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
12/13/2019	-	-	-	-	-	-	-	-	100			15	-	-	-	-											-
3/11-17/2020	0.26	1.2	<0.2	0.39	<0.2	<0.2	<0.2	-	46			12	0.29	<0.2	<0.2	<0.2	<0.2	1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-
6/9/2020	-	-	-	-	-	-	-	-	63			13	-	-	-	-											-

Notes:
 1. Data indicate concentrations of 1,4-dioxane in micrograms per liter.
 2. "<" indicates that 1,4-dioxane was not detected above the referenced reporting limit.
 3. "-" indicates results of labeled and blind duplicate sample, respectively.
 4. "-" indicates sampling location not included in respective sampling round.
 5. "dry" indicates no water in monitoring well at the time of the respective sampling round.
 6. "Value/Value*" indicates analysis for 1,4-dioxane performed using EPA Method 8260B and 8260B SIM, respectively.
 7. Shaded cells indicate well location was not installed at that time.
 8. GZ-16D sampled on April 21, 2016 at 5 depths within the well; refer to GZA's report dated May 6, 2016 for additional information.

