

Private Well Sampling Summary Princeton PFAS Release RTN 2-21072

TO: Rebecca Buswell; MassDEP
FROM: Jeffrey Arps, LSP; Tighe & Bond
COPY: Sherry Patch; Princeton Town Administrator
DATE: May 27, 2020

This memo is intended to provide an update to MassDEP on the status of ongoing assessment and response actions as required in MassDEP's January 24, 2020 IRA Plan Conditional Approval.

Summary of Recent Response Actions

- The previous monthly spreadsheet was submitted on March 25, 2020.
- Due to the Covid-19 pandemic no sampling of private wells took place between March 18, 2020 and April 28, 2020.
- On February 27, 2020, during a heavy precipitation event, a runoff water sample was collected from a flowing discharge pipe within the Town right-of-way along Mountain Road, below 30 Mountain Road. Results for this sample were received on March 12, 2020. This sample, identified as "Mountain Road Runoff," has been added to the monthly spreadsheet.
- On April 28, 2020, nine locations in the Round 4 sampling list were sampled using an outdoor spigot where possible. The following locations were sampled, and results are on the attached spreadsheet:
 - 15 Allen Hill Road
 - 19 Allen Hill Road
 - 4 Goodnow Road
 - 40 Boylston Avenue
 - 81 Hubbardston Road
 - 57 Merriam Road
 - 59 Merriam Road
 - 70 Merriam Road
 - 12 Radford Road
 - 37 Radford Road
- On May 1, 2020, a POET system was installed at 51 Mountain Road.
- On May 1, 2020, six locations with POET systems were sampled as part of monthly monitoring. Additionally, one location, 20 Allen Hill Road, was sampled as part of the Round 4 sampling list. The following POET locations were sampled, and results are shown on the attached spreadsheet:
 - 7 Boylston Ave
 - 12 Boylston Ave
 - 1 Hubbardston Road
 - 5 Hubbardston Road

15 Hubbardston Road
18 Mountain Road

There were no detections in the mid or effluent samples.

- On May 8, 2020 six additional locations with POET systems were sampled as part of monthly monitoring. The following POET locations were sampled, and results are pending:

43 Hubbardston Road
6 Mountain Road
19 Mountain Road
21 Mountain Road
29 Mountain Road
64 Mountain Road

- On May 15, 2020, a water sample was collected from 41 Prospect Street. These results are pending.
- The permit application for a POET at 14 Mountain Road is in-process.

MONTHLY PRIVATE WELL SAMPLING SUMMARY

**PRINCETON PFAS RELEASE
PRINCETON MASSACHUSETTS
RTN 2-21072**

Sample Location	Date Sampled	Date Data Received	Total Regulated PFAS (ppt)	Comments
Town Well	9/5/2019	9/25/2019	124.7	
	9/27/2019	10/21/2019	100.2	
	1/8/2020	2/27/2020	230.1	
9 Allen Hill	2/12/2020	2/28/2020	<2	Round 3 Location
12 Allen Hill	2/14/2020	2/27/2020	12.2	Round 3 Location
15 Allen Hill	4/28/2020	5/14/2020	<2	Round 4 Location
19 Allen Hill	4/28/2020	5/14/2020	<2	Round 4 Location
20 Allen Hill	5/8/2020	5/19/2020	5.3	Round 4 Location
32 Allen Hill	2/2/2020	2/6/2020	<2	
7 Boylston	1/27/2020	2/13/2020	23.2	Field Blank contained PFAS, concentration confirmed by running duplicate, see table
	POET INSTALLED 3/1/20			
	3/17/2020	4/1/2020	29	1st system sample (mid- and effluent ND)
	5/1/2020	5/18/2020	18	(mid- and effluent ND)
12 Boylston	1/13/2020	1/29/2020	26.1	
	POET INSTALLED 3/20/20			
	5/1/2020	5/13/2020	25.6	1st system sample
13 Boylston	1/8/2020	1/21/2020	<2	
16 Boylston	1/9/2020	1/21/2020	19.9	Very close to standard
17 Boylston	1/8/2020	1/21/2020	<2	
21 Boylston	2/19/2020	2/27/2020	<2	Round 3 Location
24 Boylston	1/9/2020	1/21/2020	<2	
40 Boylston	4/28/2020	5/14/2020	9.2	Round 4 Location
4 Goodnow	4/28/2020	5/18/2020	<2	Round 4 Location
9 Gregory Road	2/1/2020	2/7/2020	<2	Outside of radius
11 Gregory Hill	1/22/2020	2/6/2020	<2	
13 Gregory Hill	1/10/2020	1/23/2020	<2	
14 Gregory Hill	1/9/2020	1/21/2020	9.4	
15 Gregory Hill	1/13/2020	1/23/2020	20.4	
	POET INSTALLED 2/26/20			
	3/11/2020	3/18/2020	14.2	1st system sample (mid- and effluent ND)
21 Gregory Hill	2/28/2020	3/6/2020	<2	Round 3 Location
44 Gregory Hill	2/5/2020	2/14/2020	<2	Round 3 Location
1 Hubbardston	1/8/2020	1/21/2020	31.5	
	POET INSTALLED 2/26/20			
	3/11/2020	3/18/2020	28	1st system sample (mid- and effluent ND)
	5/1/2020	5/13/2020	29.8	(mid- and effluent ND)
5 Hubbardston	12/5/2020	12/13/2019	39.2	
	POET INSTALLED 1/28/20			
	2/5/2020	2/18/2020	34.4	1st system sample (mid- and effluent ND)
	3/5/2020	3/11/2020	18.5	(mid- and effluent ND)
7 Hubbardston	5/1/2020	5/13/2020	22.7	(mid- and effluent ND)
	12/5/2020	12/13/2019	9.7	
	12/5/2020	12/13/2019	132.6	
15 Hubbardston	POET INSTALLED 2/11/20			
	2/26/2020	3/9/2020	90.5	1st system sample (mid- and effluent ND)
	5/1/2020	5/13/2020	120.2	(mid- and effluent ND)
19 Hubbardston	12/5/2020	12/13/2019	9.7	
	2/26/2020	3/9/2020	NA	POET installed by homeowner, EFF sample collected at homeowner request, EFF=ND
	1/10/2020	1/23/2020	9.0	
23 Hubbardston	1/27/2020	1/30/2020	8.7	resample
33 Hubbardston	2/5/2020	2/17/2020	2.5	Round 3 Location
35 Hubbardston				Round 3 Location
36 Hubbardston	2/6/2020	2/14/2020	<2	Round 3 Location
39 Hubbardston				Vacant, Foreclosure
42 Hubbardston	2/10/2020	2/28/2020	<2	Round 3 Location
43 Hubbardston	12/12/2019	1/31/2020	29	Sampled by homeowner
	POET INSTALLED 3/20/20			
	5/8/2020	5/26/2020	29.5	1st system sample
44 Hubbardston	2/10/2020	2/28/2020	<2	Round 3 Location
46 Hubbardston	2/12/2020	2/28/2020	12.2	Round 3 Location
48 Hubbardston	2/12/2020	2/28/2020	<2	Round 3 Location
52 Hubbardston	2/12/2020	2/28/2020	<2	Round 3 Location
73 Hubbardston				Round 4 Location
81 Hubbardston	4/28/2020	5/14/2020	<2	Round 4 Location
57 Merriam	4/28/2020	5/14/2020	6.8	Round 4 Location
59 Merriam	4/28/2020	5/14/2020	<2	Round 4 Location
70 Merriam	4/28/2020	5/14/2020	<2	Round 4 Location
85 Merriam	2/26/2020	3/6/2020	6.8	Added to Round 3
105 Merriam	2/28/2020	3/6/2020	<2	Added to Round 3
Mountain Road Runoff	2/27/2020	3/12/2020	3,642.3	
2 Mountain	1/7/2020	1/21/2020	<2	
	12/5/2020	12/13/2019	30.1	
	POET INSTALLED 1/28/20			
6 Mountain	2/5/2020	2/18/2020	18.2	1st system sample (mid- and effluent ND)
	3/5/2020	3/12/2020	24.5	(mid- and effluent ND)
	5/8/2020	5/26/2020	20.5	(mid- and effluent ND)
	12/9/2020	12/30/2019	2.0	
10 Mountain	1/9/2020	1/21/2020	38.7	NEEDS A POET
	1/22/2020	2/6/2020	45.1	resample
	1/10/2020	1/23/2020	217.4	
18 Mountain	POET INSTALLED 2/11/20			
	2/14/2020	3/3/2020	165.6	1st system sample (mid- and effluent ND)
	3/11/2020	3/18/2020	227.0	system sample (mid- and effluent ND)
	5/1/2020	5/13/2020	128.9	(mid- and effluent ND)
19 Mountain	12/4/2020	12/13/2019	421	
	POET INSTALLED 1/10/20			
	1/13/2020	1/30/2020	109.5	1st system sample (mid- and effluent ND)
	1/17/2020	1/30/2020	345.6	2nd system sample (mid- and effluent ND)
	1/31/2020	2/7/2020	73.0	3rd system sample (mid- and effluent ND)
	3/3/2020	3/17/2020	70.0	(mid- and effluent ND)
20 Mountain	5/8/2020	5/26/2020	119.2	(mid- and effluent ND)
	1/10/2020	1/23/2020	86	
	POET INSTALLED 2/11/20			
21 Mountain	2/14/2020	2/26/2020	106	1st system sample (mid- and effluent ND)
	3/17/2020	4/1/2020	112.2	(mid- and effluent ND)
	12/5/2019	12/13/2019	102.4	
	POET INSTALLED 1/21/20			
21 Mountain	1/24/2020	1/30/2020	88.6	1st system sample (mid- and effluent ND)
	1/31/2020	2/7/2020	77.7	2nd system sample (mid- and effluent ND)
	2/7/2020	2/18/2020	61.5	3rd system sample (mid- and effluent ND)
	3/17/2020	4/1/2020	88.9	(mid- and effluent ND)
	5/8/2020	5/26/2020	51.4	(mid- and effluent ND)
22 Mountain	1/8/2020	1/21/2020	117.3	Homeowner reportedly out of country, house is listed for sale. Left 2 messages with Stoney Farm Realty. Have not heard back
29 Mountain	POET INSTALLED 2/24/20			
	3/11/2020	3/18/2020	84	1st system sample (mid- and effluent ND)
	5/8/2020			
30 Mountain	1/27/2020	1/30/2020	15.9	
33 Mountain	2/7/2020	2/14/2020	<2	# always busy when dialed. Left a flyer on 1/9, certified mail sent 1/28, Homeowner reached out on 2/4. To be sampled ASAP
38 Mountain	2/14/2020	2/27/2020	2.2	Round 3 Location
51 Mountain	2/12/2020	2/28/2020	62.5	
54 Mountain	POET INSTALLED 5/1/20			
	2/26/2020	3/6/2020	45.6	NEEDS A POET
	2/26/2020	3/6/2020	354	NEEDS A POET
64 Mountain	1/30/2020	2/5/2020	75	Outside Radius (homeowner pregnant, sampled as courtesy with 3 day rush)
	POET INSTALLED 2/18/20			
	3/3/2020	3/12/2020	89.5	1st system sample
	5/8/2020	5/26/2020	69.2	(mid- and effluent ND)
5 Prospect	1/13/2020	1/16/2020	38.2	(mid- and effluent ND)
	POET INSTALLED 1/21/20			
	1/23/2020	2/6/2020	9.6	1st system sample (mid- and effluent ND)
	1/31/2020	2/7/2020	2.5	2nd system sample (mid- and effluent ND)
7 Prospect	2/7/2020	2/18/2020	2.4	3rd system
	12/9/2019	12/30/2019	13.3	
	1/8/2020	1/21/2020	4.4	
11 Prospect	2/20/2020	2/26/2020	5.8	POET installed by homeowner, INF/MID/EFF samples collected at homeowner request, (mid- and effluent ND)
16 Prospect	1/22/2020	2/7/2020	<2	
17 Prospect	1/8/2020	1/21/2020	2.8	
18 Prospect	1/8/2020	1/21/2020	<2	
21 Prospect	2/5/2020	2/14/2020	<2	No contact info, left flyer on 1/21, certified letter sent 1/28, homeowner reached out on 2/3.
26 Prospect	2/6/2020	2/14/2020	<2	Round 3 Location
27 Prospect				Round 3 Location
31 Prospect				Vacant property, Condemned
41 Prospect				Round 4 Location
2 Radford	2/19/2020	2/26/2020	<2	Round 3 Location
7 Radford	2/28/2020	3/6/2020	2.3	Round 3 Location
8 Radford	2/28/2020	3/6/2020	6.4	Round 3 Location
11 Radford	2/14/2020	2/27/2020	5	Round 3 Location
12 Radford	5/1/2020	5/14/2020	22.5	NEEDS A POET
13 Radford	3/4/2020	3/16/2020	<2	Round 3 Location
15 Radford				Round 4 Location
18 Radford				Round 4 Location
23 Radford				Round 4 Location
28 Radford	1/30/2020	2/5/2020	15.1	
29 Radford	3/17/2020	4/1/2020	6.7	Round 4 Location
33 Radford				Round 4 Location
37 Radford	4/28/2020	5/14/2020	2.1	Round 4 Location
38 Radford				Round 4 Location
1 Worcester	1/7/2020	1/21/2020	<2	
10 Worcester	1/9/2020	1/21/2020	16.6	
15 Worcester	3/6/2020	3/16/2020	3.1	Round 3 Location
16 Worcester	2/5/2020	2/14/2020	2.2	Round 3 Location
17 Worcester	2/10/2020	2/14/2020	<2	Round 3 Location
20 Worcester	3/17/2020	4/1/2020	<2	Round 3 Location
23 Worcester	2/5/2020	2/14/2020	<2	Round 3 Location

POET SYSTEM STATUS

Locations >20 ppt	System Status	System Pre-Screening Date	General Chemistry Parameters Collected (yes/no)	Date Installed
7 Boylston	POET INSTALLED			3/1/2020
12 Boylston	POET INSTALLED	3/6/2020	3/6/2020	3/20/2020
15 Gregory Hill	POET INSTALLED			2/26/2020
1 Hubbardston	POET INSTALLED			2/26/2020
5 Hubbardston	POET INSTALLED	1/23/2020	1/23/2020	1/28/2020
15 Hubbardston	POET INSTALLED	1/17/2020	1/17/2020	2/10/2020
43 Hubbardston	POET INSTALLED			3/20/2020
6 Mountain	POET INSTALLED	1/23/2020	1/23/2020	1/28/2020
14 Mountain	NEEDS A POET			
18 Mountain	LARGE POET INSTALLED	1/28/2020	2/14/2020	2/10/2020
19 Mountain	LARGE POET INSTALLED	--	2/27/2019	1/10/2020
20 Mountain	POET INSTALLED		2/14/2020	2/11/2020
21 Mountain	POET INSTALLED	1/17/2020	1/17/2020	1/21/2020
29 Mountain	POET INSTALLED		3/11/2020	2/24/2020
51 Mountain	POET INSTALLED	3/6/2020	3/6/2020	5/1/2020
54 Mountain	NEEDS A POET			
58 Mountain	NEEDS A POET			
64 Mountain	POET INSTALLED			2/18/2020
5 Prospect	POET INSTALLED	1/20/2020	1/20/2020	1/21/2020

PRINCETON RESIDENTIAL SAMPLING LIST (ROUND 4)

	ADDRESS	NAME	HOME	CELL	EMAIL	SAMPLE DATE	NOTES
1	15 Allen Hill Rd	Fred and Teresa Dowd		(508) 878-3003	fdowd@techcontainer.com	4/28/2020	scheduled for 4/28
2	19 Allen Hill Rd	Melissa and Brain Ruttle		(978) 464-7715	MMRRUTTLE@gmail.com	4/28/2020	scheduled for 4/28
3	20 Allen Hill Rd	Charles and Charlotte Steele	(978) 464-5337	(617) 462-8130	cmsteele1@verizon.net	5/8/2020	scheduled for 5/8
4	40 Boylston Ave.	Tom Daly	(978) 464-5702	(508) 561-7878	tdaly0105@verizon.net	4/28/2020	scheduled for 4/28
5	4 Goodnow Rd	Roger Sands	(978) 464-0287	(978) 273-3997	redgateinn@aol.com	4/28/2020	scheduled for 4/28
6	73 Hubbardston Rd						
7	81 Hubbardston Rd	Leslie Ardinger		(978) 621-6084	leslianeardinger@gmail.com	4/28/2020	scheduled for 4/28
8	57 Merriam Rd	Peter Hart	(978) 464-2000	978-855-5661	bradyhart57@gmail.com	4/28/2020	scheduled for 4/28
9	59 Merriam Rd	Joseph Mungo	(978) 464-5198	(508) 341-5636	joe@treemit.com	4/28/2020	scheduled for 4/28
10	70 Merriam Rd	Harry and Wendy Pape	(978) 464-2095	(781) 405-7823	papeh@cisgroup.com	4/28/2020	scheduled for 4/28
11	27 Prospect St (vacant)						
12	31 Prospect St (vacant)						
13	41 Prospect St	Luke Chacotto		(978) 870-0050		5/18/2020	
	12 Radford Rd						
14	15 Radford Rd						
15	18 Radford Rd						
16	23 Radford Rd						
17	29 Radford Rd	Michael Hanson	(978) 464-2659	(774) 364-2382		3/17/2020	
18	33 Radford Rd						
19	37 Radford Rd	Dana Staub	(978) 464-7702	(603) 930-1100	danastaub@gmail.com	4/28/2020	scheduled for 4/28
20	38 Radford Rd						

FIGURE 2 ORTHOPHOTOGRAPH SITE PLAN

LEGEND

Total Regulated PFAS Concentrations in Parts-Per-Trillion (ppt)

- Greater Than 100
- Greater Than 20 But Less Than 100
- Greater Than 2 But Less Than 20
- Non Detect (<2)
- Non-Community Transient Public Water Supply

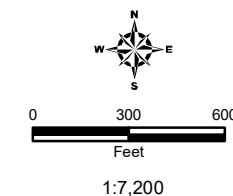
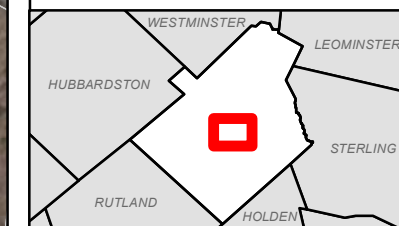
500' Foot Radii Over Time

- Start of Project
- Current Status (2020/05/19)

Affected Property Labels:

- (Point of Entry Treatment, if present)
- Address
- PFAS 6-Compound Total

LOCUS MAP



NOTES

1. Based on Google Imagery (2017)
2. 500' Buffer based on a 50' buffer of building structures. Well locations are assumed to be within 50' of each home.
3. Abbreviation Dictionary:

"ALLEN HILL RD": "A-HIL"
 "BOYLSTON AVE": "BYLN"
 "GREGORY HILL RD": "G-HIL"
 "HUBBARDSTON RD": "HUB"
 "MOUNTAIN RD": "MTN"
 "PROSPECT ST": "PRSP"
 "RADFORD RD": "RFRD"
 "WORCESTER RD": "WORC"
 "MERRIAM": "MRIM"
 "GOODNOW": "GDNW"

Princeton, Massachusetts

May 2020

Tighe & Bond
 Engineers | Environmental Specialists

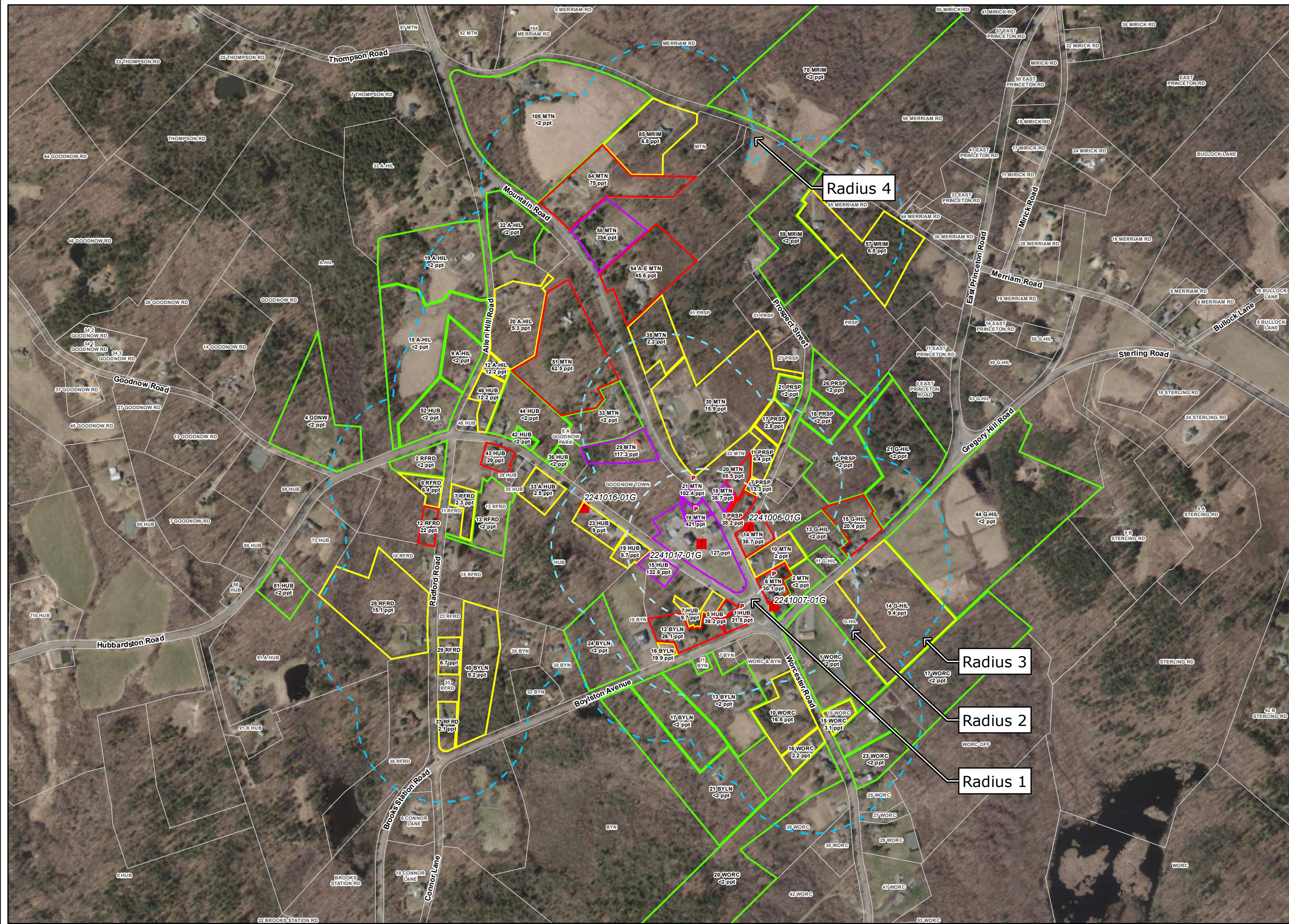


TABLE 1

PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	X X												
		Town Well (WELL-01G)			Mountain Rd Runoff	Thomas Prince School	E. Princeton FS	E. Princeton FS FB	Krashes Field DPW	9 Allen Hill rd	12 Allen Hill Rd	15 Allen Hill Rd	19 Allen Hill Rd	32 Allen Hill Rd
Sample Date		9/5/2019	9/27/2019	1/8/2020	2/27/2020	2/27/20	1/9/20	1/9/20	1/13/20	2/12/20	2/19/20	4/28/20	4/28/20	2/2/20
Lab Sample ID		20C0043	20C0041-01	20A0455-01	20A0455-02	20A0586-01	20B0669-01	20B0848-01	20E0031-01	20E0036-01	20B0053-01			
Hydrocarbon (mg/l)														
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)														
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)														
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)														
11Cl-PF3OUdS (F53B Major)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS (F53B Minor)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<1.82	<1.87	<1.84	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<1.82	<1.87	<1.84	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	26.9	17	31.9	58	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<1.82	<1.87	2.86	88	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<1.82	<1.87	<1.84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)														
Perfluorodecanoic acid (PFDA)	NS	<1.82	<1.87	<1.84	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<1.82	<1.87	2.47	23	<2.0	<2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	94.4	78.1	168	710	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<1.82	<1.87	<1.84	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	26.4	18.9	52.6	2800	<2.0	<2.0	<2.0	<2.0	<2.0	4.2	<2.0	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	3.92	3.18	9.52	100	<2.0	<2.0	<2.0	<2.0	<2.0	5.8	<2.0	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	124.7	100	233	3642.3	ND	ND	ND	ND	ND	12.2	ND	ND	ND
Total PFAS (ng/L)	NS	151.6	117	267	3795.3	ND	ND	ND	ND	ND	12.2	ND	ND	ND

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
 MMCL is Massachusetts Maximum Containment Level
 PFAS - Per- and Polyfluoroalkyl substances
 NS - No Standard
 <# - Parameter not detected above provided reporting limit
 Bold and boxed values indicate exceedances of criteria

TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	X X X X X														
		7 Boylston Ave	7 Boylston Ave	7 Boylston Ave FB	7 Boylston INF	7 Boylston MID	7 Boylston EFF	7 Boylston INF	7 Boylston MID	7 Boylston EFF	12 Boylston Ave	12 Boylston Ave	12 Boylston INF	12 Boylston MID	12 Boylston EFF	
Sample Date		1/27/20	1/27/20	1/27/20	3/17/20	3/17/20	3/17/20	5/1/20	5/1/20	5/1/20	1/10/20	3/6/20	5/1/20	5/1/20	5/1/20	
Lab Sample ID		20A1229-01	20A1229-01	20A1229-02	20C0972-01	20C0972-02	20C0972-03	20E0116-01	20E0116-02	20E0116-03	20A0577-01	20C0333-01	20E0113-01	20E0113-02	20E0113-03	
Hydrocarbon (mg/l)																
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
General Chemistry (mg/l)																
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	360	-	-	-	
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	780	-	-	-	
Chloride	NS	-	-	-	-	-	-	-	-	-	-	380	-	-	-	
Metals 6010 (ug/l)																
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	<0.80	-	-	-	
Manganese	NS	-	-	-	-	-	-	-	-	-	-	<1.0	-	-	-	
Sodium	NS	-	-	-	-	-	-	-	-	-	-	120,000	-	-	-	
Iron	NS	-	-	-	-	-	-	-	-	-	-	<50	-	-	-	
PFAS - Unregulated (ng/L)																
11Cl-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
9Cl-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
perfluorobutanesulfonic acid (PFBS)	NS	3.7	3.6	<2.0	4.1	<2.0	<2.0	2.2	<2.0	<2.0	9.1	-	7.5	<2.0	<2.0	
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
PFAS - Regulated (ng/L)																
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
perfluorohexanesulfonic acid (PFHxS)	NS	17	16	<2.0	20	<2.0	<2.0	12	<2.0	<2.0	14	-	14	<2.0	<2.0	
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	
perfluorooctanesulfonic acid (PFOS)	NS	6.2	4.5	4.7	6.2	<2.0	<2.0	3.3	<2.0	<2.0	6.4	-	5.7	<2.0	<2.0	
perfluorooctanoic acid (PFOA)	NS	<2.0	2.7	14	2.8	<2.0	<2.0	2.5	<2.0	<2.0	5.7	-	5.9	<2.0	<2.0	
Total Regulated PFAS (ng/L)	20	23	23	19	29	ND	ND	18	ND	ND	26	-	26	ND	ND	
Total PFAS (ng/L)	NS	27	27	19	33	ND	ND	20	ND	ND	35	-	33	ND	ND	

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
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 PFAS - Per- and Polyfluoroalkyl substances
 NS - No Standard
 <## - Parameter not detected above provided reporting limit
 Bold and boxed values indicate exceedances of criteria

TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	X X X													
		13 Boylston Ave	16 Boylston Ave	17 Boylston Ave	21 Boylston Ave	21 Boylston Ave FB	24 Boylston Ave	40 Boylston Ave	40 Boylston Ave FB	4 Goodnow Rd	9 Gregory Rd	11 Gregory Hill Rd	13 Gregory Hill Rd	13 Gregory Hill Rd FB	14 Gregory Hill Rd
Sample Date		1/8/20	1/9/20	1/8/20	2/19/20	2/19/20	1/9/20	4/28/20	4/28/20	4/28/20	2/1/20	1/22/20	1/10/20	1/10/20	1/9/20
Lab Sample ID		20A0416-01	20A0424-01	20A0421-01	20B0952-01	20B0952-02	20A0423-01	20E0028-01	20E0028-02	20E0033-01	20B0052-01	20A1073-01	20A0581-01	20A0581-02	20A0456-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved Chloride)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	5.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	3.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	4.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.7
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	7.2	<2.0	<2.0	<2.0	<2.0	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5
perfluorooctanoic acid (PFOA)	NS	<2.0	8.0	<2.0	<2.0	<2.0	<2.0	5.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.2
Total Regulated PFAS (ng/L)	20	ND	19.9	ND	ND	ND	ND	9.2	ND	ND	ND	ND	ND	ND	9.4
Total PFAS (ng/L)	NS	ND	28.9	ND	ND	ND	ND	9.2	ND	ND	ND	ND	ND	ND	12.0

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	15 Gregory Hill Rd	15 Gregory Hill INF	15 Gregory Hill MID	15 Gregory Hill EFF	21 Gregory Hill Rd	44 Gregory Hill Road	1 Hubbardston Rd	1 Hubbardston INF	1 Hubbardston MID	1 Hubbardston EFF	X 1 Hubbardston INF	X 1 Hubbardston MID	X 1 Hubbardston EFF
Sample Date		1/13/20	3/11/20	3/11/20	3/11/20	2/28/20	2/5/20	1/8/20	3/11/20	3/11/20	3/11/20	5/1/20	5/1/20	5/1/20
Lab Sample ID		20A0575-01	20C0653-01	20C0653-02	20C0653-03	20C0012-01	20B0261-01	20A0419-01	20C0654-01	20C0654-02	20C0654-03	20E0114-01	20E0114-02	20E0114-03
Hydrocarbon (mg/l)														
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)														
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)														
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)														
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	2.7	3.6	<2.0	<2.0	<2.0	<2.0	7.0	5.7	<2.0	<2.0	6.4	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)														
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	4.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	5.2	6.6	<2.0	<2.0	<2.0	<2.0	22	19	<2.0	<2.0	21	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	5.4	5.4	<2.0	<2.0	<2.0	<2.0	6.1	5.6	<2.0	<2.0	5.7	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	5.1	2.2	<2.0	<2.0	<2.0	<2.0	3.4	3	<2.0	<2.0	3.1	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	20.4	14.2	ND	ND	ND	ND	32	28	ND	ND	30	ND	ND
Total PFAS (ng/L)	NS	26.0	17.8	ND	ND	ND	ND	39	31	ND	ND	36	ND	ND

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	5	5	5	5	5	5	5	5	5	X	X	X	7
		Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Inf	Hubbardston Mid	Hubbardston Eff	Hubbardston Rd INF	Hubbardston Rd MID	Hubbardston Rd EFF	Hubbardston Inf	Hubbardston Mid	Hubbardston Eff	Hubbardston Rd
Sample Date		12/5/19	12/5/19	12/5/19	2/5/20	2/5/20	2/5/20	3/5/20	3/5/20	3/5/20	5/1/20	5/1/20	5/1/20	12/5/19
Lab Sample ID		19L0336-01	19L0340-01	19L0336-01	20B0268-01	20B0268-02	20B0268-03	20C0330	20C0330	20C0330	20E0111-01	20E0111-02	20E0111-03	19L0336-02
Hydrocarbon (mg/l)														
Diesel/#2 Fuel	NS	<0.21	-	-	-	-	-	-	-	-	-	-	-	<0.21
General Chemistry (mg/l)														
Hardness (as CaCO3)	NS	-	-	350	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	670	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	390	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)														
Arsenic	NS	-	-	1.3	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	5.7	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	<50	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	130,000	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)														
11Cl-PF3OUdS (F53B Major)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
9Cl-PF3ONS (F53B Minor)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
N-EtFOSAA	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
N-MeFOSAA	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
perfluorobutanesulfonic acid (PFBS)	NS	-	8.4	-	6.3	<2.0	<2.0	4.3	<2.0	<2.0	4.6	<2.0	<2.0	-
Perfluorododecanoic acid (PFDoA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Perfluorohexanoic acid (PFHxA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Perfluorotetradecanoic acid (PFTA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Perfluorotridecanoic acid (PFTrDA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
Perfluoroundecanoic acid (PFUnA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
PFAS - Regulated (ng/L)														
Perfluorodecanoic acid (PFDA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
perfluoroheptanoic acid (PFHpA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
perfluorohexanesulfonic acid (PFHxS)	NS	-	29	-	25	<2.0	<2.0	11	<2.0	<2.0	15	<2.0	<2.0	-
perfluorononanoic acid (PFNA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-
perfluorooctanesulfonic acid (PFOS)	NS	-	7.3	-	6.9	<2.0	<2.0	4.9	<2.0	<2.0	4.8	<2.0	<2.0	-
perfluorooctanoic acid (PFOA)	NS	-	2.9	-	2.5	<2.0	<2.0	2.7	<2.0	<2.0	2.9	<2.0	<2.0	-
Total Regulated PFAS (ng/L)	20	-	39	-	34	ND	ND	19	ND	ND	23	ND	ND	-
Total PFAS (ng/L)	NS	-	48	-	41	ND	ND	23	ND	ND	27	ND	ND	-

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
 MMCL is Massachusetts Maximum Containment Level
 PFAS - Per- and Polyfluoroalkyl substances
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	7	15	15	15	15	15	X	X	X	19	19	23
		Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston INF	Hubbardston MID	Hubbardston EFF	Hubbardston INF	Hubbardston MID	Hubbardston EFF	Hubbardston Rd	Hubbardston Rd EFF	Hubbardston Rd
Sample Date		12/5/19	12/5/19	1/17/20	2/26/20	2/26/20	2/26/20	5/1/20	5/1/20	5/1/20	12/5/19	2/26/20	1/10/20
Lab Sample ID		19L0341-01	19L0334-01	20A0984-01	20B1182-01	20B1182-02	20B1182-03	20E0110-01	20E0110-02	20E0110-03	19L0339-01	20B1183-01	20A0578-01
Hydrocarbon (mg/l)													
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)													
Hardness (as CaCO3)	NS	-	-	400	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	910	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	430	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)													
Arsenic	NS	-	-	<0.80	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	17	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	160,000	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	<50	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)													
11Cl-PF3OUdS (F53B Major)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS (F53B Minor)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	2.3	27	-	17	<2.0	<2.0	21	<2.0	<2.0	2.9	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTTrDA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)													
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	3.5	110	-	73	<2.0	<2.0	95	<2.0	<2.0	9.7	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	3.3	18	-	14	<2.0	<2.0	21	<2.0	<2.0	<2.0	<2.0	4.1
perfluorooctanoic acid (PFOA)	NS	2.9	4.6	-	3.5	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	<2.0	4.9
Total Regulated PFAS (ng/L)	20	9.7	133	-	91	ND	ND	120	ND	ND	9.7	ND	9.0
Total PFAS (ng/L)	NS	12	160	-	108	ND	ND	141	ND	ND	12.6	ND	9.0

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TABLE 1

PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	23	33	36	42	43	44	46	48	52	X	X	X	X
		Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardston Rd	Hubbardstan Rd	57 Meriam Rd	59 Merriam Rd
Sample Date		1/27/20	2/5/20	2/6/20	2/10/20	12/12/19	2/10/20	2/12/20	2/12/20	2/12/20	4/28/20	4/28/20	4/28/20	4/28/20
Lab Sample ID		20A1148-01	20B0262-01	20B0267-01	20B0677-01	19L0660-01	20B0679-01	20B0673-01	20B0676-01	20B0671-01	20E0022-01	20E0023-01	20E0025-01	20E0027-01
Hydrocarbon (mg/l)														
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)														
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)														
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)														
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	<4.0	3.5	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)														
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<4.0	4.4	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<4.0	<2.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	3.7	2.5	<2.0	<4.0	10	<4.0	6.0	<2.0	<2.0	<2.0	4.3	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	5.0	<2.0	<2.0	<4.0	15	<4.0	6.2	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	8.7	2.5	ND	ND	29	ND	12.2	ND	ND	ND	6.8	ND	ND
Total PFAS (ng/L)	NS	8.7	2.5	ND	ND	33	ND	12.2	ND	ND	ND	6.8	ND	ND

mg/l - milligrams per liter
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	X													
		TB-04282020	85 Merriam Rd	105 Merriam Rd	2 Mountain Rd	6 Mountain Rd	6 Mountain Rd	6 Mountain Rd	6 Mountain Inf	6 Mountain Mid	6 Mountain Eff	6 Mountain Rd FB	6 Mountain Rd INF	6 Mountain Rd MID	6 Mountain Rd EFF
Sample Date		4/28/20	2/26/20	2/28/20	1/7/20	12/5/19	12/5/19	2/5/20	2/5/20	2/5/20	12/5/19	3/5/20	3/5/20	3/5/20	12/5/19
Lab Sample ID		20E0028-03	20B1180-01	20C0013-01	20A0415-01	19L0332-01	19L0332-01	20B0269-01	20B0269-02	20B0269-03	19L0332-02	20C0331	20C0331	20C0331	19L0333-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	370	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	510	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	280	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	1.4	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	4.8	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	<50	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	60,000	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	<2.0	<2.0	8.4	-	3.7	<2.0	<2.0	<2.0	5.8	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	<2.0	<2.0	23	-	12	<2.0	<2.0	<2.0	17	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	2.7	<2.0	<2.0	4.7	-	4.1	<2.0	<2.0	<2.0	5	<2.0	<2.0	2.0
perfluorooctanoic acid (PFOA)	NS	<2.0	4.1	<2.0	<2.0	2.4	-	2.1	<2.0	<2.0	<2.0	2.5	<2.0	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	ND	6.8	ND	ND	30	-	18	ND	ND	ND	25	ND	ND	2.0
Total PFAS (ng/L)	NS	ND	6.8	ND	ND	39	-	22	ND	ND	ND	30	ND	ND	2.0

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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	10	14	14	14	14	18	18	18	18	18	18	18	18	18
		Mountain Rd	Mountain Rd	Mountain Rd	Mountain Rd	Mountain Road FB	Mountain Rd	Mountain Rd	Mountain Rd INF	Mountain Rd MID	Mountain Rd EFF	Mountain INF	Mountain MID	Mountain EFF	Mountain INF
Sample Date		12/5/19	1/9/20	1/9/20	1/22/20	1/9/20	1/10/20	2/14/20	2/14/20	2/14/20	2/14/20	3/11/20	3/11/20	3/11/20	3/11/20
Lab Sample ID		19L0336-03	20A0410-01	20A0413-01	20A1071-01	20A0413-02	20A0765-01	20B0851-01	20B0850-01	20B0850-03	20B0850-02	20C0659-01	20C0659-02	20C0659-03	20C0659-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	<0.21	<0.20	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	-	170	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	210	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	47	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	-	1.3	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	15,000	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	<50	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	-	-	7.4	8.7	<2.0	25	-	20	<2.0	<2.0	27	<2.0	<2.0	15
Perfluorododecanoic acid (PFDoA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	-	-	<2.0	<2.0	<2.0	3.4	-	2.8	<2.0	<2.0	3.1	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTTrDA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	-	-	30	35	<2.0	150	-	110	<2.0	<2.0	160	<2.0	<2.0	88
perfluorononanoic acid (PFNA)	NS	-	-	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	-	-	6.1	7.8	<2.0	61	-	50	<2.0	<2.0	61	<2.0	<2.0	36
perfluorooctanoic acid (PFOA)	NS	-	-	2.6	2.3	<2.0	6.4	-	5.6	<2.0	<2.0	6.4	<2.0	<2.0	4.9
Total Regulated PFAS (ng/L)	20	-	-	39	45	ND	217	-	166	ND	ND	227	ND	ND	129
Total PFAS (ng/L)	NS	-	-	46	54	ND	246	-	188	ND	ND	258	ND	ND	144

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
 MMCL is Massachusetts Maximum Containment Level
 PFAS - Per- and Polyfluoroalkyl substances
 NS - No Standard
 <## - Parameter not detected above provided reporting limit
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	X		X											
		18 Mountain MID	18 Mountain EFF	19 Mountain Rd	19 Mountain Rd	19 Mountain Rd INF	19 Mountain Rd MID	19 Mountain Rd EFF	19 Mountain Rd FB	19 Mountain Rd INF	19 Mountain Rd MID	19 Mountain Rd EFF	19 Mountain Rd FB	19 Mountain Rd INF	19 Mountain Rd MID
Sample Date		3/11/20	3/11/20	12/4/19	12/27/19	1/10/20	1/10/20	1/10/20	1/10/20	1/17/20	1/17/20	1/17/20	1/17/20	1/31/20	1/31/20
Lab Sample ID		20C0659-02	20C0659-03	19L0338-01	19L1115-01	20A0763-01	20A0763-02	20A0763-03	20A0763-04	20A0981-01	20A0981-02	20A0981-03	20A0981-04	20B0055-01	20B0055-03
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	240	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	480	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	200	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	1.1	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	7.8	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	71,000	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	<0.050	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11Cl-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	32	-	9.2	<2.0	<2.0	<2.0	28	<2.0	<2.0	<2.0	6.3	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	5.1	-	<2.0	<2.0	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	2.5	-	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	220	-	58	<2.0	<2.0	<2.0	190	<2.0	<2.0	<2.0	38	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	<2.0	190	-	48	<2.0	<2.0	<2.0	140	<2.0	<2.0	<2.0	32	<2.0
perfluorooctanoic acid (PFOA)	NS	<2.0	<2.0	11	-	3.5	<2.0	<2.0	<2.0	8.9	<2.0	<2.0	<2.0	3.0	<2.0
Total Regulated PFAS (ng/L)	20	ND	ND	424	-	110	ND	ND	ND	341	ND	ND	ND	73	ND
Total PFAS (ng/L)	NS	ND	ND	461	-	119	ND	ND	ND	374	ND	ND	ND	79	ND

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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	19 Mountain Rd EFF	19 Mountain Rd INF	19 Mountain Rd MID	19 Mountain Rd EFF	TB- 03032020	20 Mountain Rd	20 Mountain Rd	20 Mountain Rd INF	20 Mountain Rd MID	20 Mountain Rd EFF	20 Mountain INF	20 Mountain MID	20 Mountain EFF	21 Mountain Rd
Sample Date		1/31/20	3/3/20	3/3/20	3/3/20	3/3/20	1/10/20	2/14/20	2/14/20	2/14/20	2/14/20	3/17/20	3/17/20	3/17/20	12/5/19
Lab Sample ID		20B0055-02	20C0332	20C0332	20C0332	20C0332-04	20A0764-01	20B0852-01	20B0849-01	20B0849-02	20B0849-03	20C0973-01	20C0973-02	20C0973-03	19L0331-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	-	170	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	210	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	33	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	-	3.6	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	<1.0	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	11,000	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	<50	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	7.1	<2.0	<2.0	<2.0	12	-	14	<2.0	<2.0	15	<2.0	<2.0	8.2
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	2.4
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	39	<2.0	<2.0	<2.0	60	-	74	<2.0	<2.0	78	<2.0	<2.0	53
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	28	<2.0	<2.0	<2.0	22	-	28	<2.0	<2.0	30	<2.0	<2.0	44
perfluorooctanoic acid (PFOA)	NS	<2.0	3.1	<2.0	<2.0	<2.0	3.5	-	4.1	<2.0	<2.0	4.2	<2.0	<2.0	5.4
Total Regulated PFAS (ng/L)	20	ND	70	ND	ND	ND	86	-	106	ND	ND	112	ND	ND	102
Total PFAS (ng/L)	NS	ND	77	ND	ND	ND	98	-	122	ND	ND	127	ND	ND	113

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
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 PFAS - Per- and Polyfluoroalkyl substances
 NS - No Standard
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	21 Mountain Rd	21 Mountain Rd INF	21 Mountain Rd MID	21 Mountain Rd EFF	21 Mountain Rd FB	21 Mountain Rd INF	21 Mountain Rd MID	21 Mountain Rd EFF	21 Mountain Rd. INF	21 Mountain Rd. MID	21 Mountain Rd. EFF	21 Mountain INF	21 Mountain MID	21 Mountain EFF
Sample Date		1/17/20	1/24/20	1/24/20	1/24/20	1/24/20	1/31/20	1/31/20	1/31/20	2/7/20	2/7/20	2/7/20	3/17/20	3/17/20	3/17/20
Lab Sample ID		20A0982-01	20A1171-01	20A1171-02	20A1171-03	20A1171-04	20B0057-01	20B0057-02	20B0057-03	20B0429-01	20B0429-02	20B0429-03	20C0969-01	20C0969-02	20C0969-03
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	240	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	400	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	130	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	21	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	27,000	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	<50	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	-	7.5	<2.0	<2.0	<2.0	5.5	<2.0	<2.0	4.3	<2.0	<2.0	7.4	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	-	2.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	3.2	<2.0	<2.0	3	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTTrDA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	3.2	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	-	47	<2.0	<2.0	<2.0	37	<2.0	<2.0	28	<2.0	<2.0	46	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	-	37	<2.0	<2.0	<2.0	35	<2.0	<2.0	26	<2.0	<2.0	35	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	-	4.6	<2.0	<2.0	<2.0	5.7	<2.0	<2.0	5.4	<2.0	<2.0	4.7	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	-	89	ND	ND	ND	78	ND	ND	62	ND	ND	89	ND	ND
Total PFAS (ng/L)	NS	-	98	ND	ND	ND	85	ND	ND	69	ND	ND	99	ND	ND

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
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 PFAS - Per- and Polyfluoroalkyl substances
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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	29 Mountain Rd	29 Mountain Rd	29 Mountain Rd	29 Mountain INF	29 Mountain MID	29 Mountain EFF	30 Mountain Rd	33 Mountain Rd.	38 Mountain Rd	51 Mountain Rd	51 Mountain Rd	54 Mountain Rd	54 Mountain Rd FB	58 Mountain Rd
Sample Date		1/8/20	1/8/20	3/11/20	3/11/20	3/11/20	3/11/20	1/27/20	2/7/20	2/14/20	2/12/20	3/6/20	2/26/20	2/26/20	2/26/20
Lab Sample ID		20A0411-01	20A0418-01	20C0657	20C0655-01	20C0655-02	20C0655-03	20A1146-01	20B0430-01	20B0846-01	20B0681-01	20C0334-01	20B1181-01	20B1181-02	20B1178-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	<0.25	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	350	-	-	-	-	-	-	-	260	-	-	-
Solids (Total Dissolved)	NS	-	-	760	-	-	-	-	-	-	-	560	-	-	-
Chloride	NS	-	-	290	-	-	-	-	-	-	-	300	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	<50	-	-	-	-	-	-	-	<0.80	-	-	-
Manganese	NS	-	-	<0.80	-	-	-	-	-	-	-	<1.0	-	-	-
Sodium	NS	-	-	11	-	-	-	-	-	-	-	97,000	-	-	-
Iron	NS	-	-	88,000	-	-	-	-	-	-	-	<50	-	-	-
PFAS - Unregulated (ng/L)															
11Cl-PF3OUdS (F53B Major)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
9Cl-PF3ONS (F53B Minor)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
N-EtFOSAA	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
N-MeFOSAA	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	-	9.6	-	6.7	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	-	2.5	-	2	<2.0	<2.0	<2.0	<2.0	<2.0	6.9	-	5.2	<2.0	19
Perfluorotetradecanoic acid (PFTA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTTrDA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	6.2
perfluoroheptanoic acid (PFHpA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.5	-	7.6	<2.0	29
perfluorohexanesulfonic acid (PFHxS)	NS	-	59	-	41	<2.0	<2.0	4.4	<2.0	<2.0	<4.0	-	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	-	<2.0	<2.0	20
perfluorooctanesulfonic acid (PFOS)	NS	-	53	-	38	<2.0	<2.0	5.4	<2.0	2.2	24	-	18	<2.0	210
perfluorooctanoic acid (PFOA)	NS	-	5.3	-	5.1	<2.0	<2.0	6.1	<2.0	<2.0	29	-	20	<2.0	89
Total Regulated PFAS (ng/L)	20	-	117	-	84	ND	ND	15.9	ND	2.2	62	-	46	ND	354
Total PFAS (ng/L)	NS	-	129	-	93	ND	ND	15.9	ND	2.2	69	-	51	ND	373

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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	64 Mountain Rd	64 Mountain Rd INF	64 Mountain Rd MID	64 Mountain Rd EFF	5 Prospect St	5 Prospect St	5 Prospect St. INF	5 Prospect St. MID	5 Prospect St. EFF	5 Prospect St INF	5 Prospect St MID	5 Prospect St EFF	5 Prospect St. INF	5 Prospect St. MID	
Sample Date		1/30/20	3/3/20	3/3/20	3/3/20	1/13/20	1/20/20	1/24/20	1/24/20	1/24/20	1/31/20	1/31/20	1/31/20	2/7/20	2/7/20	
Lab Sample ID		20A1378-01	20C0329	20C0329	20C0329	20A0546-01	20A0986-01	20A1143-01	20A1143-03	20A1143-02	20B0054-01	20B0054-02	20B0054-03	20B0428-01	20B0428-02	
Hydrocarbon (mg/l)																
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
General Chemistry (mg/l)																
Hardness (as CaCO3)	NS	-	-	-	-	-	330	-	-	-	-	-	-	-	-	
Solids (Total Dissolved)	NS	-	-	-	-	-	530	-	-	-	-	-	-	-	-	
Chloride	NS	-	-	-	-	-	210	-	-	-	-	-	-	-	-	
Metals 6010 (ug/l)																
Arsenic	NS	-	-	-	-	-	2.2	-	-	-	-	-	-	-	-	
Manganese	NS	-	-	-	-	-	1.3	-	-	-	-	-	-	-	-	
Sodium	NS	-	-	-	-	-	35,000	-	-	-	-	-	-	-	-	
Iron	NS	-	-	-	-	-	<50	-	-	-	-	-	-	-	-	
PFAS - Unregulated (ng/L)																
11Cl-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
9Cl-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	<2.0	<2.0	9.4	-	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Perfluorohexanoic acid (PFHxA)	NS	14	20	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
PFAS - Regulated (ng/L)																
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
perfluoroheptanoic acid (PFHpA)	NS	19	23	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	<2.0	<2.0	32	-	6.6	<2.0	<2.0	2.5	<2.0	<2.0	2.4	<2.0	
perfluorononanoic acid (PFNA)	NS	<2.0	2.5	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
perfluorooctanesulfonic acid (PFOS)	NS	22	20	<2.0	<2.0	6.2	-	3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
perfluorooctanoic acid (PFOA)	NS	34	44	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Total Regulated PFAS (ng/L)	20	75	90	ND	ND	38	-	9.6	ND	ND	2.5	ND	ND	2.4	ND	
Total PFAS (ng/L)	NS	89	110	ND	ND	48	-	12.0	ND	ND	2.5	ND	ND	2.4	ND	

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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	5 Prospect St. EFF	7 Prospect St	11 Prospect St	11 Prospect Rd INF	11 Prospect Rd MID	11 Prospect Rd EFF	16 Prospect St	17 Prospect St	18 Prospect St	21 Prospect St.	26 Prospect St	2 Radford Rd	7 Radford Rd	8 Radford Rd
Sample Date		2/7/20	12/9/19	1/8/20	2/20/20	2/20/20	2/20/20	1/22/20	1/8/20	1/8/20	2/5/20	2/6/20	2/19/20	2/28/20	2/28/20
Lab Sample ID		20B0428-03	19L0552-01	20A0417-01	20B0953-01	20B0953-02	20B0953-03	20A1072-01	20A0422-01	20A0420-01	20B0263-01	20B0266-01	20B0954-01	20C0014-01	20C0015-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	8.8	2.1	3.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	4.5	2.3	2.5	<2.0	<2.0	<2.0	2.8	<2.0	<2.0	<2.0	<2.0	2.3	2.5
perfluorooctanoic acid (PFOA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.9
Total Regulated PFAS (ng/L)	20	ND	13.3	4.4	5.8	ND	ND	ND	2.8	ND	ND	ND	ND	2.3	6.4
Total PFAS (ng/L)	NS	ND	16.4	4.4	5.8	ND	ND	ND	2.8	ND	ND	ND	ND	2.3	6.4

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 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	X						X							
		11 Radford Rd	12 Radford Rd	13 Radford Rd	28 Radford Rd	29 Radford Rd	29 Radford Rd FB	37 Radford Road	18 Sterling Road (LAV)	18 Sterling Road (LAV)	Field Blank	1 Worcester Rd	10 Worcester Rd	15 Worcester Rd.	16 Worcester Rd.
Sample Date		2/14/20	5/1/20	3/4/20	1/30/20	3/17/20	3/17/20	4/28/20	3/29/20	3/29/20	3/29/20	1/7/20	1/9/20	3/6/20	2/5/20
Lab Sample ID		20B0847-01	20E0115-01	20C0327-01	20A1380-01	20C0970-01	20C0970-01	20E0034-01	20C1338-01	20C1338-02	20C1338-03	20A0414-01	20A0412-01	20C0328-01	20B0264-01
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	100	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	-	-	1.3	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	<10	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	5700	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	<50	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11CI-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
9CI-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	3.8	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	3.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	8.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	2.7	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	2.3	8.3	<2.0	7.0	3.50	<2.0	2.1	<2.0	-	<2.0	<2.0	2.3	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	2.7	11	<2.0	5.4	3.20	<2.0	<2.0	<2.0	-	<2.0	<2.0	3.6	3.1	2.2
Total Regulated PFAS (ng/L)	20	5.0	22.0	ND	15.1	6.7	ND	2.1	ND	-	ND	ND	16.6	3.1	2.2
Total PFAS (ng/L)	NS	5.0	25.0	ND	17.2	6.7	ND	2.1	ND	-	ND	ND	20.4	3.1	2.2

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
 MMCL is Massachusetts Maximum Containment Level
 PFAS - Per- and Polyfluoroalkyl substances
 NS - No Standard
 <## - Parameter not detected above provided reporting limit
 Bold and boxed values indicate exceedances of criteria

TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	17 Worcester Rd. 2/10/20 20B0431-01	20 Worcester Rd. 3/17/20 20C0971-01	23 Worcester Rd. 2/5/20 20B0265-01	MW-10A 1/2/20 20A0099-03	MW-10A 1/2/20 20A0105-03	MW-10D 1/2/20 20A0099-01	MW-10D 1/2/20 20A0105-01	MW-14 1/2/20 20A0099-02	MW-14 1/2/20 20A0105-02	MW-18R 1/2/20 20A0099-04	MW-18R 1/2/20 20A0105-04	Field Blank 1/2/20 20A0105-05	TB- 12052019 19L0335-01	TB- 12092019 19L0552-02
Hydrocarbon (mg/l)															
Diesel/#2 Fuel	NS	-	-	-	0.23	-	0.49	-	<0.20	-	0.62	-	-	-	-
General Chemistry (mg/l)															
Hardness (as CaCO3)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010 (ug/l)															
Arsenic	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS - Unregulated (ng/L)															
11Cl-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	<2.0	-	5.3	-	7.2	-	21	-	3.9	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	-	4.1	-	3.6	-	2.1	-	2.8	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)															
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	-	2.1	-	3.3	-	<2.0	-	2.1	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	<2.0	-	22	-	39	-	200	-	17	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	<2.0	<2.0	-	4.0	-	28	-	140	-	7.0	<2.0	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	<2.0	<2.0	<2.0	-	4.5	-	8.6	-	6.5	-	3.1	<2.0	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	ND	ND	ND	-	33	-	79	-	347	-	29	ND	ND	ND
Total PFAS (ng/L)	NS	ND	ND	ND	-	42	-	90	-	370	-	36	ND	ND	ND

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TABLE 1
 PFAS Drinking Water Summary
 Princeton, Massachusetts
 RTN 2-21072
 Last Updated: 04/02/2020

Sample ID	MassDEP MCP GW-1 & Proposed MMCL	TB- 01022020	TB- 01102020	TB- 01172020	TB- 01212020	TB- 01272020	TB- 01312020
Sample Date		1/2/20	1/14/20	1/22/20	1/24/20	1/27/20	1/31/20
Lab Sample ID		20A0105-06	20A0583-01	20A0981-05	20A1171-05	20A1148-02	20B0057-04
Hydrocarbon (mg/l)							
Diesel/#2 Fuel	NS	-	-	-	-	-	-
General Chemistry (mg/l)							
Hardness (as CaCO3)	NS	-	-	-	-	-	-
Solids (Total Dissolved)	NS	-	-	-	-	-	-
Chloride	NS	-	-	-	-	-	-
Metals 6010 (ug/l)							
Arsenic	NS	-	-	-	-	-	-
Manganese	NS	-	-	-	-	-	-
Sodium	NS	-	-	-	-	-	-
Iron	NS	-	-	-	-	-	-
PFAS - Unregulated (ng/L)							
11Cl-PF3OUdS (F53B Major)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
9Cl-PF3ONS (F53B Minor)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-EtFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-MeFOSAA	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorobutanesulfonic acid (PFBS)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic acid (PFDoA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic acid (PFHxA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic acid (PFTA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic acid (PFTrDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic acid (PFUnA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFAS - Regulated (ng/L)							
Perfluorodecanoic acid (PFDA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluoroheptanoic acid (PFHpA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorohexanesulfonic acid (PFHxS)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorononanoic acid (PFNA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanesulfonic acid (PFOS)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
perfluorooctanoic acid (PFOA)	NS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Regulated PFAS (ng/L)	20	ND	ND	ND	ND	ND	ND
Total PFAS (ng/L)	NS	ND	ND	ND	ND	ND	ND

mg/l - milligrams per liter
 ug/l - micrograms per liter
 ng/l - nanograms per liter
 MCP - Massachusetts Contingency Plan
 MMCL is Massachusetts Maximum Containment Level
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