

**DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**

**Work Plan for Sampling of Water Supply Wells
and Provision of Alternate Water
Addendum 3**

**Saint-Gobain Performance Plastics Facility
701 Daniel Webster Highway
Merrimack, New Hampshire 03054
NHDES Site No.: 199712055
Project Number: 36430**

Prepared For:
Saint-Gobain Performance Plastics Corp.
14 McCaffrey Street
Hoosick Falls, New York 12090
Phone Number: (518) 686-6268
RP Contact Name: Chris Angier
RP Contact Email:
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Prepared By:
Golder Associates Inc.
670 North Commercial Street
Manchester, New Hampshire 03101
Phone Number: (603) 668-0880
Contact Name: Ross W. Bennett
Contact Email: rbennett@golder.com

Date of Report: January 6, 2019

January 6, 2019

Project No. 166-8623

Mr. Jeff Marts
New Hampshire Department of Environmental Services
Waste Management Division
P.O. Box 95, 29 Hazen Drive
Concord, New Hampshire 03302-0095

**RE: WORK PLAN FOR SAMPLING OF WATER SUPPLY WELLS AND PROVISION OF ALTERNATE WATER - ADDENDUM 3
SAINT-GOBAIN PERFORMANCE PLASTICS
701 DANIEL WEBSTER HIGHWAY, MERRIMACK, NEW HAMPSHIRE
NHDES SITE NO. 199712055**

Dear Mr. Marts:

On behalf of Saint-Gobain Performance Plastics (SGPP), Golder Associates Inc. (Golder) is submitting this Addendum 3 to the New Hampshire Department of Environmental Services (NHDES) for work completed under the September 30, 2019 Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water (September 2019 Work Plan, Golder, 2019a).

Work Plan and Addenda

In a letter dated October 3, 2019 (NHDES, 2019a), NHDES approved the sampling proposed in the September 2019 Work Plan and requested “a list of properties...for the next round of sampling that includes, but is not necessarily limited to, properties that are proximal to wells with PFOA concentrations that are above the AGQS of 12 ppt”.

In response, Golder submitted the Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water – Addendum 1 on November 1, 2019 (Work Plan Addendum 1, Golder, 2019b). In a letter dated November 5, 2019 (NHDES, 2019b) NHDES approved Work Plan Addendum 1 and requested:

- Sampling of water supply wells at schools and licensed child care facilities within the Outer Boundary
- Sampling or confirmation of water supply status of properties that were assumed to be connected to a public water supply and adjacent to properties that are eligible for alternate water
- Implementation of a dynamic strategy that continues to work to identify impacted water supply wells.

Golder responded to these requests in the Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water – Addendum 2 submitted to NHDES on December 16, 2019 (Work Plan Addendum 2, Golder, 2019c). In a letter dated December 17, 2019 (NHDES, 2019c) NHDES approved Work Plan Addendum 2 and requested sampling of school and child care facilities connected to non-transient non-community public water supplies.

Identification of Wells for Sampling

Golder used the following screening approach to identify properties for sampling or confirmation of water supply status under Addendum 3 as Shown on Figure 1 and listed in Table 1:

- **Proximal Parcels:** properties that are within a 60-foot offset of the boundary of properties that have been offered interim alternate water since submittal of Addendum 2.
- **Distance from Wells Previously Sampled or Properties Proposed to be Sampled:** a subset of properties in areas of relatively lower density of existing analytical results or where no properties are currently identified for sampling.

Properties within the Outer Boundary not currently identified for sampling under the 2019 Work Plan or associated addenda will be considered during the development of future addenda as described in Section 3.2 of the September 2019 Work Plan.

Next Steps and Schedule

Sampling and provision of alternate water at properties identified in the 2019 Work Plan and associated addenda will continue. SGPP will complete the following activities following NHDES approval of Work Plan Addendum 3:

- Initiate contact with and provide access agreements to owners of properties identified for sampling within 30 days of Addendum approval.
- Coordinate sampling of a property's well(s) within 60 days of access agreement acceptance by the property owner(s).

The schedule for responding to results and reporting to NHDES is included in Section 5 of the September 2019 Work Plan.

If you have any questions regarding this Addendum, please call Mr. Ross Bennett at (603) 668-0880.

Sincerely,

Golder Associates Inc.



Alistair P.T. Macdonald, P.G., LSP
Senior Program Leader and Principal



Ross Bennett, P.E.
Senior Consultant

RWB/APTM/drb

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Attachments:

Table 1 – Properties Identified for Sampling – Addendum 3
Figure 1 – Properties Identified for Sampling – Addendum 3

References:

Golder, 2019a. Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water. September 30, 2019.

Golder, 2019b. Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water – Addendum 1. November 1, 2019.

Golder, 2019c. Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water – Addendum 2. December 16, 2019.

NHDES, 2019a. Re: Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water. October 3, 2019.

NHDES, 2019b. Re: Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water – Addendum 1. November 5, 2019.

NHDES, 2019c. Re: Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water – Addendum 2. December 17, 2019.

Table 1: Properties Identified for Sampling - Addendum 3
Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water

LOCATION ID	TOWN	ADDRESS		MAP	BLOCK	LOT	SLUC	Likely Developed	Likely Not Developed
		STREET NUMBER	STREET NAME						
RWS-03001	Bedford	35	BACK RIVER RD	22	43	3	11	X	
RWS-03002	Bedford	37	BACK RIVER RD	22	42		37	X	
RWS-03003	Bedford	50	BACK RIVER RD	25	27		11	X	
RWS-03004	Bedford	10	BARRINGTON DR	33	17	6	11	X	
RWS-03005	Bedford	16	BARRINGTON DR	33	14	1	11	X	
RWS-03006	Bedford	8	BENNING WY	27	42	2	11	X	
RWS-03007	Bedford	220	COUNTY RD	25	23	3	11	X	
RWS-03008	Bedford	228	COUNTY RD	25	21		11	X	
RWS-03009	Bedford	234	COUNTY RD	25	19		11	X	
RWS-03010	Bedford	1	ELDER WILLIAMS RD	27	42	11	11	X	
RWS-03011	Bedford	36	GAGE RD	33	20	6	11	X	
RWS-03012	Bedford	44	GAGE RD	33	20	7	11	X	
RWS-03013	Bedford	46	GAGE RD	33	20	8	11	X	
RWS-03014	Bedford	50	GAGE RD	32	5		11	X	
RWS-03015	Bedford	55	GAGE RD	32	46	9	11	X	
RWS-03016	Bedford	29	LEDGEWOOD RD	32	50	14	11	X	
RWS-03017	Bedford	30	LEDGEWOOD RD	27	50	7	11	X	
RWS-03018	Bedford	50	OLDE ENGLISH RD	33	46	7	11	X	
RWS-03019	Bedford	56	OLDE ENGLISH RD	32	46	8	11	X	
RWS-03020	Bedford	1	PEBBLE BEACH DR	22	89		14	X	
RWS-03021	Bedford	9	RUTLEDGE RD	32	22	16	11	X	
RWS-03022	Bedford	49	SEBBINS POND DR	25	51		11	X	
RWS-03023	Bedford	53	SEBBINS POND DR	25	11		12	X	
RWS-03024	Bedford	65	SEBBINS POND DR	25	43		11	X	
RWS-03025	Bedford	2	STAGECOACH LN	32	21	1	11	X	
RWS-03026	Bedford	150	WALLACE RD	32	22	17	11	X	
RWS-03027	Bedford	155	WALLACE RD	27	7	1	11	X	
RWS-03028	Bedford	159	WALLACE RD	27	7		11	X	
RWS-03029	Bedford	160	WALLACE RD	27	42	4	11	X	
RWS-03030	Londonderry	13	BUNKER HILL DR	5	31	21	11	X	
RWS-03031	Londonderry	15	BUNKER HILL DR	5	31	22	11	X	
RWS-03032	Londonderry	21	BUNKER HILL DR	5	31	25	11	X	
RWS-03033	Londonderry	4	CHANDLER DR	5	21	14	11	X	
RWS-03034	Londonderry	6	CHANDLER DR	5	21	15	11	X	
RWS-03035	Londonderry	8	CHANDLER DR	5	21	16	11	X	
RWS-03036	Londonderry	23	ELWOOD RD	5	38	1	11	X	
RWS-03037	Londonderry	8	FAIRWAY RD	11	58	55	11	X	
RWS-03038	Londonderry	3	HICKORY HILL DR	8	6	57	11	X	
RWS-03039	Londonderry	201	HIGH RANGE RD	8	6	16	11	X	
RWS-03040	Londonderry	203	HIGH RANGE RD	8	6	15	11	X	
RWS-03041	Londonderry	205	HIGH RANGE RD	8	6	14	11	X	
RWS-03042	Londonderry	211	HIGH RANGE RD	8	6	12	11	X	
RWS-03043	Londonderry	13	JUSTIN CR	11	58	32	11	X	
RWS-03044	Londonderry	15	JUSTIN CR	11	58	31	11	X	
RWS-03045	Londonderry	16	JUSTIN CR	11	58	22	11	X	
RWS-03046	Londonderry	18	JUSTIN CR	11	58	21	11	X	
RWS-03047	Londonderry	28	JUSTIN CR	11	58	16	11	X	
RWS-03048	Londonderry	6	MONT VERNON DR	5	73	10	11	X	
RWS-03049	Londonderry	8	MONT VERNON DR	5	73	9	11	X	
RWS-03050	Londonderry	6	NETTIE WY	2	44	11	22		X
RWS-03051	Londonderry	2	PINE HOLLOW DR	8	9	34	11	X	
RWS-03052	Londonderry	4	PINE HOLLOW DR	8	9	35	11	X	
RWS-03053	Londonderry	10	POPLAR CR	8	6	60	11	X	
RWS-03054	Londonderry	18	PREMIER DR	5	49	40	11	X	
RWS-03055	Londonderry	6	ROLLING RIDGE RD	8	9	3	11	X	
RWS-03056	Londonderry	36	ROLLING RIDGE RD	11	58	69	11	X	
RWS-03057	Londonderry	16	SEVERANCE DR	2	4	14	11	X	
RWS-03058	Londonderry	18	SEVERANCE DR	2	4	13	11	X	
RWS-03059	Londonderry	90	WILEY HILL RD	5	14	0	22		X
RWS-03060	Londonderry	91	WILEY HILL RD	5	57	0	35	X	
RWS-03061	Londonderry	99	WILEY HILL RD	5	58	4	11	X	

Table 1: Properties Identified for Sampling - Addendum 3
Work Plan for Sampling of Water Supply Wells and Provision of Alternate Water

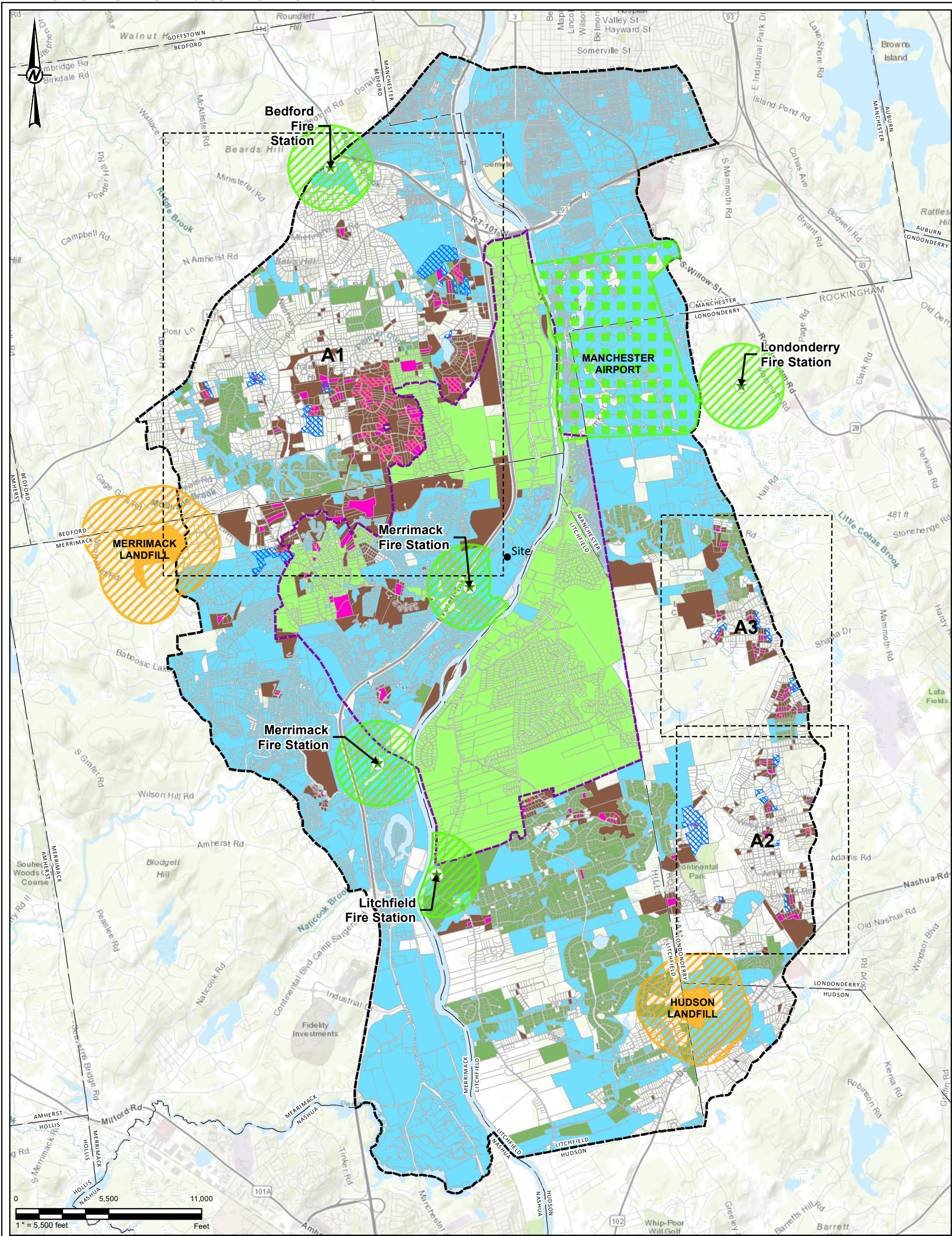
LOCATION ID	TOWN	ADDRESS		MAP	BLOCK	LOT	SLUC	Likely Developed	Likely Not Developed
		STREET NUMBER	STREET NAME						
RWS-03062	Londonderry	103	WILEY HILL RD	5	58	11	57		X
RWS-03063	Merrimack	126	BEAN RD	06C		147	22		X
RWS-03064	Merrimack	135	BEDFORD RD	06C		150	11	X	
RWS-03065	Merrimack	140	BEDFORD RD	07C		60	11	X	

Notes:

1) Properties identified for sampling as described in the Work Plan for Water Supply Wells and Provision of Alternate Water - Addendum 3, dated January 3, 2020.

2) SLUC = State Land Use Code

Prepared by: RWB
 Checked by: BDL
 Reviewed by: APTM



LEGEND

- Saint-Gobain Merrimack Facility
- Pre-GMZ Boundary (see Note 1)
- Outer Boundary (see Note 1)
- Town Boundary
- Addendum 3 Properties**
- Identified for Sampling or Confirmation of Water Supply Status
- Work Plan and Addendum 1 and 2 Properties**
- Identified for Sampling
- Occupants have been Offered Bottled Water
- Identified for Sampling Where Occupants have been Offered Bottled Water
- Property-Water Main Status**
- Access to Alternate Water (if applicable) confirmed by Consent Decree
- Connection to PWS Confirmed
- Access to Water Main is Likely

- Access to Water Mains is not Likely
- Potential Other Sources
- Fire Stations 2500 ft Buffer
- Airport Potential Source Boundary
- Landfill Boundary 2000 ft Buffer
- Landfill - Approximate GMZ Boundary Before AGQS Revision

NOTE(S)

- PRE-GMZ BOUNDARY AND OUTER BOUNDARY FROM ATTACHMENT C OF CONSENT DECREE, STATE OF NEW HAMPSHIRE, DEPT. OF ENVIRONMENTAL SERVICES V. SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, MARCH 20, 2018.
- BOTTLED WATER STATUS DETERMINED BY PFOA CONCENTRATIONS USING DATA PROVIDED BY NHDES IN NOVEMBER 2019 PLUS PARCELS IDENTIFIED BY NHDES AFTER WORK PLAN AND ADDENDUM 1 AND ADDENDUM 2 SUBMITTAL.

REFERENCE(S)

- COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW HAMPSHIRE FIPS 2800 FEET
- BASEMAP SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT

SAINT-GOBAIN PERFORMANCE PLASTICS

PROJECT
RESIDENTIAL WELL WORK PLAN - ADDENDUM 3
SAINT-GOBAIN PERFORMANCE PLASTICS FACILITY
MERRIMACK, NH

TITLE
**PROPERTIES IDENTIFIED FOR POTENTIAL SAMPLING -
ADDENDUM 3**

CONSULTANT



PROJECT NO.
1668623

CONTROL

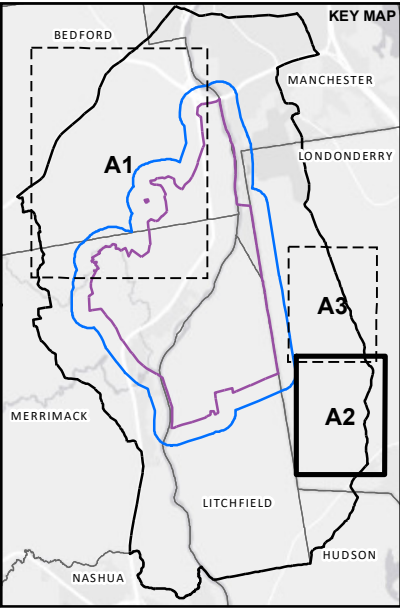
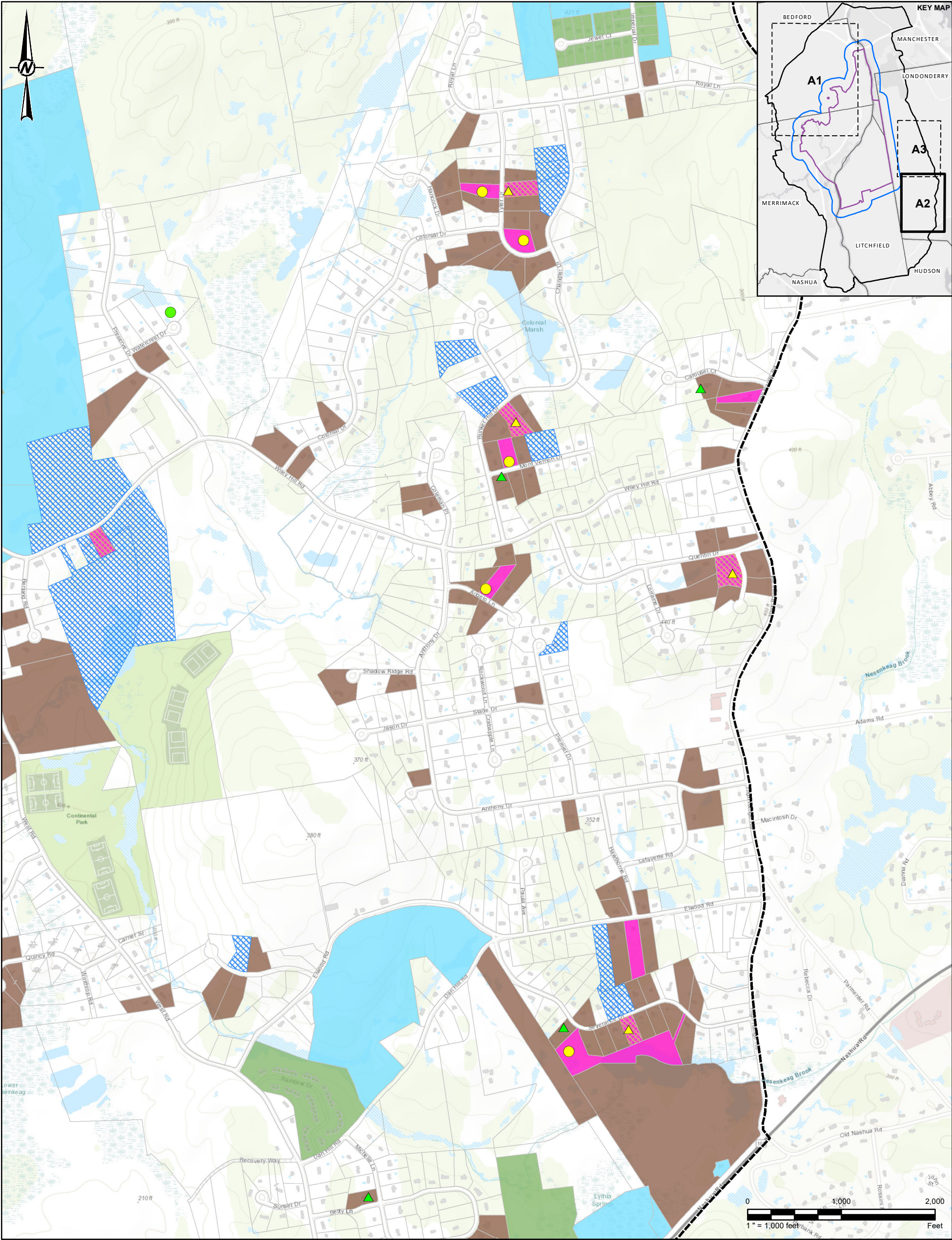
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FIGURE

1A

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DESIGNED	RWB
PREPARED	SHL
REVIEWED	RWB
APPROVED	APTM

FIGURE
1B



- LEGEND**
- Saint-Gobain Merrimack Facility
 - Pre-GMZ Boundary (see Note 1)
 - Outer Boundary (see Note 1)
 - Town Boundary
 - NHDES Sample Location
 - △ Golder Sample Location

- PFOA Results**
- Non-detect
 - ≤12 ppt
 - >12 ppt

Addendum 3 Properties

- Identified for Sampling or Confirmation of Water Supply Status

Work Plan and Addendum 1 and 2 Properties

- Identified for Sampling
- Occupants have been Offered Bottled Water
- Identified for Sampling Where Occupants have been Offered Bottled Water

Property-Water Main Status

- Connection to PWS Confirmed
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NOTE(S)

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- PFOA DATASET BASED ON DATA PROVIDED BY NHDES NOVEMBER 2019.
- MOST RECENT DATA FOR EACH LOCATION IS SHOWN. IF MULTIPLE SAMPLES WERE TAKEN ON THE SAME DATE, THE SAMPLE WITH THE HIGHEST VALUE IS SHOWN.

REFERENCE(S)

- COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW HAMPSHIRE FIPS 2800 FEET
- BASEMAP ESRI, HERE, GARMIN, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT

SAINT-GOBAIN PERFORMANCE PLASTICS

PROJECT
RESIDENTIAL WELL WORK PLAN - ADDENDUM 3
SAINT-GOBAIN PERFORMANCE PLASTICS FACILITY
MERRIMACK, NH

TITLE
**PROPERTIES IDENTIFIED FOR POTENTIAL SAMPLING -
ADDENDUM 3 - AREA 2**

CONSULTANT



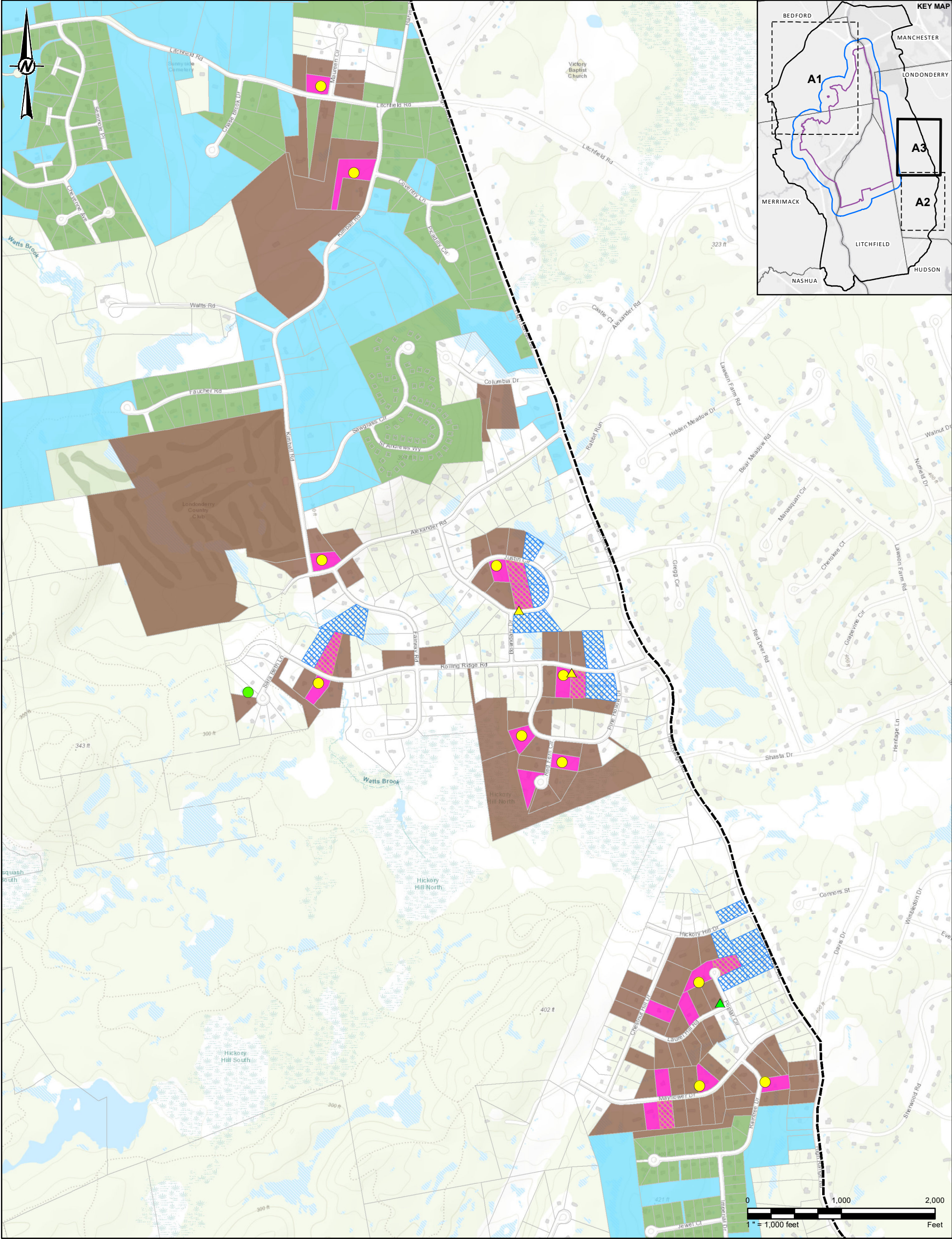
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FIGURE
1C

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REVIEWED	RWB
APPROVED	APTM



LEGEND

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- BOTTLED WATER STATUS DETERMINED BY PFOA CONCENTRATIONS USING DATA PROVIDED BY NHDES IN NOVEMBER 2019 PLUS PARCELS IDENTIFIED BY NHDES AFTER WORK PLAN AND ADDENDUM 1 AND ADDENDUM 2 SUBMITTAL.
- PFOA DATASET BASED ON DATA PROVIDED BY NHDES NOVEMBER 2019.
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REFERENCE(S)

- COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW HAMPSHIRE FIPS 2800 FEET
- BASEMAP ESRI, HERE, GARMIN, (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT

SAINT-GOBAIN PERFORMANCE PLASTICS

PROJECT
RESIDENTIAL WELL WORK PLAN - ADDENDUM 3
SAINT-GOBAIN PERFORMANCE PLASTICS FACILITY
MERRIMACK, NH

TITLE
**PROPERTIES IDENTIFIED FOR POTENTIAL SAMPLING -
ADDENDUM 3 - AREA 3**

CONSULTANT



GOLDER

PROJECT NO.
1668623

CONTROL
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FIGURE
1D

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DESIGNED	RWB
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REVIEWED	RWB
APPROVED	APTM