
APPENDIX A

LIMITATIONS

- 1) These environmental services were performed in accordance with generally accepted practices of other consultants undertaking similar assessments at the same time and in the same geographical area. The results of this assessment are based on our professional judgment and are not scientific certainties. Specifically, Nobis Engineering, Inc. does not and cannot represent that the site contains no hazardous wastes, oil or other latent conditions beyond those observed during this assessment. No other warranty, express or implied, is made.
- 2) The observations and conclusions presented in this report were made solely on the basis of conditions described in the report and not on scientific tasks or procedures beyond the scope of described services or the budgetary and time constraints imposed by the client. The work described in this report was performed in accordance with the terms and conditions of our Master Services Agreement dated March 25, 2016. No other warranty, express or implied, is made.
- 3) Observations were made of the site as indicated in this report. Where access to portions of the site was unavailable or limited, Nobis Engineering, Inc. renders no opinion as to the presence of hazardous wastes or the presence of indirect evidence of hazardous wastes in that portion of the site.
- 4) No property boundary, site feature or topographic surveys of the site were performed by Nobis Engineering, Inc. unless specifically indicated in the text of the report.
- 5) No sampling or testing was performed for the presence of dioxins, furans, pesticides, herbicides, radon, lead paint, urea-formaldehyde, asbestos or polychlorinated biphenyls (PCBs) at the site unless specifically indicated in the text of the report.
- 6) Chemical analyses have been performed for specific parameters during this assessment, as described in the text of the report. Additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the site. In addition, where such analyses have been conducted by an outside laboratory, Nobis Engineering, Inc. has relied upon the data provided and has not conducted an independent evaluation of the reliability of these data.

- 7) This report has been prepared for the exclusive use of town of Windham solely for use in an environmental evaluation of the site per the request of the NHDES. This report shall not, in whole or in part, be conveyed to any other party, other than the NHDES without prior written consent of Nobis Engineering, Inc.

APPENDIX B



Windham Senior Center

2 North Lowell Road

Windham, NH 03087

Inquiry Number: 5339903.4

June 21, 2018

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/21/18

Site Name:

Windham Senior Center
2 North Lowell Road
Windham, NH 03087
EDR Inquiry # 5339903.4

Client Name:

Nobis Engineering, Inc.
18 Chenell Drive
Concord, NH 03301
Contact: Jason H. Pelchat



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Nobis Engineering, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	94200	Latitude:	42.805078 42° 48' 18" North
Project:	Windham Senior Center	Longitude:	-71.299001 -71° 17' 56" West
		UTM Zone:	Zone 19 North
		UTM X Meters:	312017.02
		UTM Y Meters:	4741732.83
		Elevation:	217.55' above sea level

Maps Provided:

2012
1985
1974
1953
1943
1941
1905

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Windham
2012
7.5-minute, 24000

1985 Source Sheets



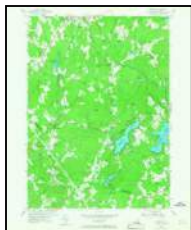
Windham
1985
7.5-minute, 24000
Aerial Photo Revised 1982

1974 Source Sheets



Windham
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1953 Source Sheets



Windham
1953
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1943 Source Sheets



Lowell
1943
30-minute, 125000

1941 Source Sheets

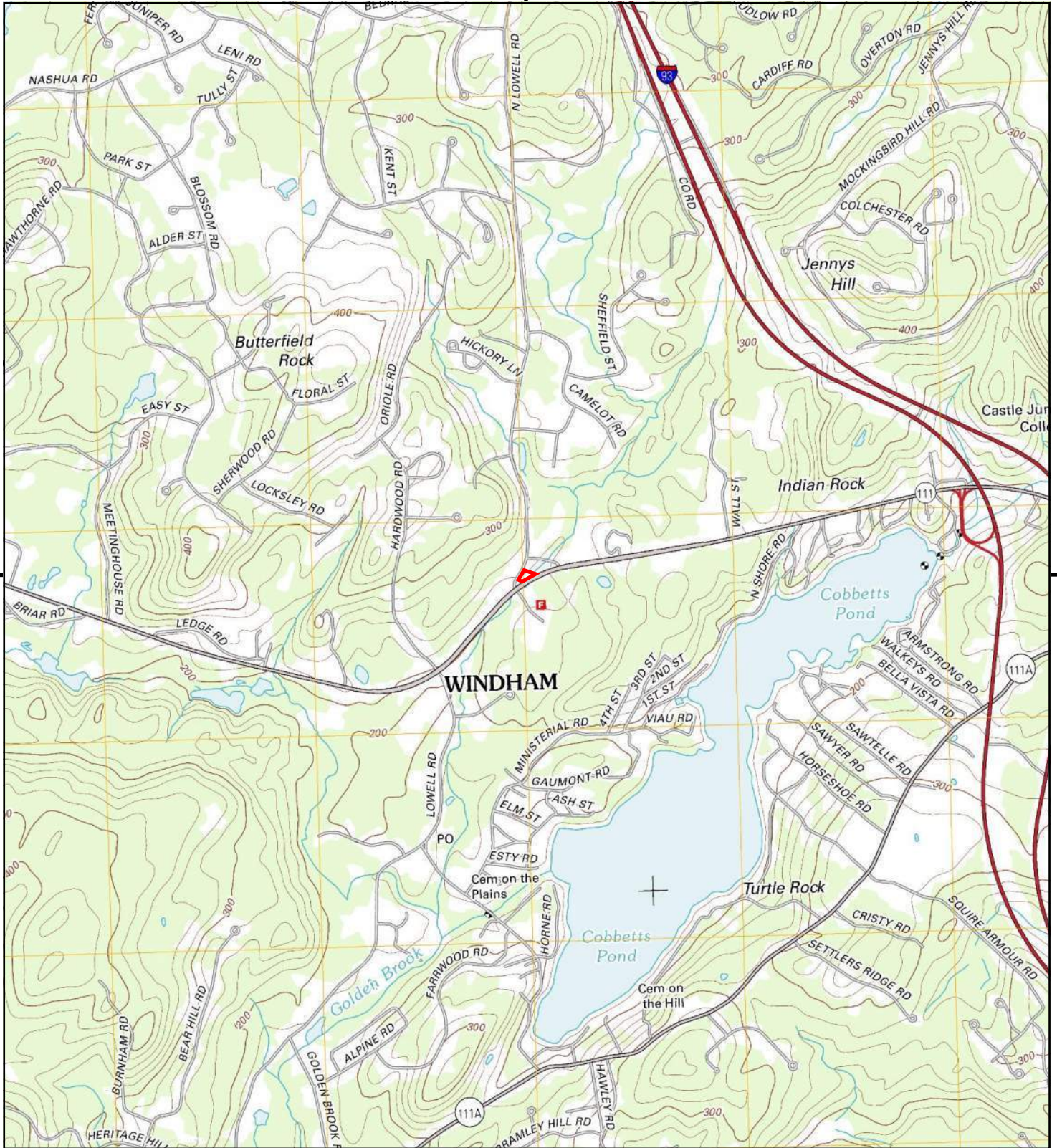


Manchester
1941
15-minute, 62500

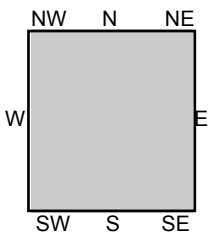
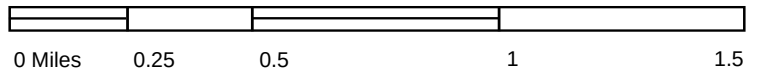
1905 Source Sheets



Manchester
1905
15-minute, 62500



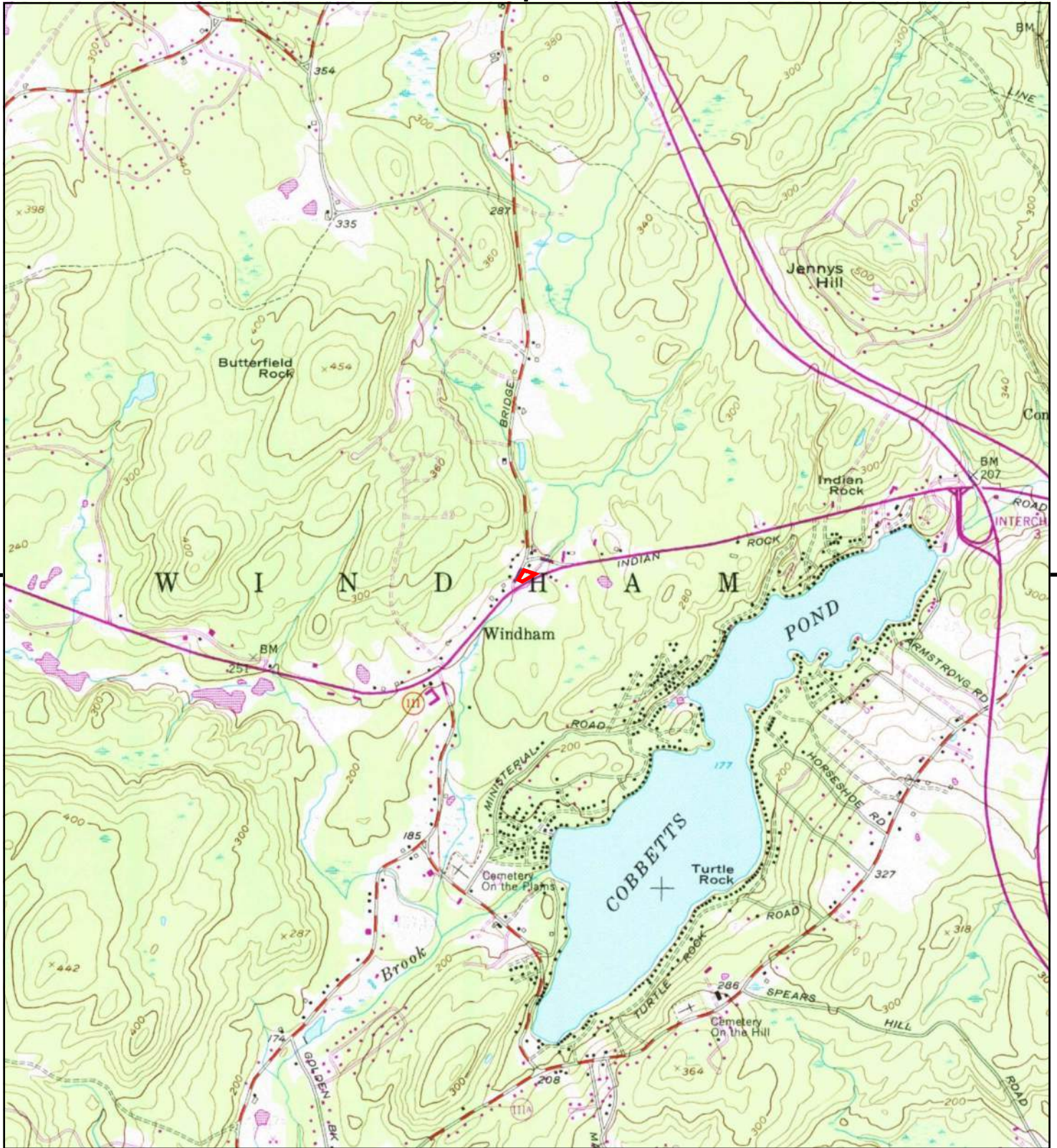
This report includes information from the following map sheet(s).



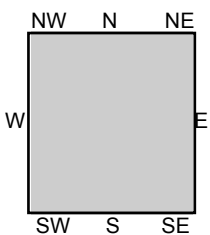
TP, Windham, 2012, 7.5-minute

SITE NAME: Windham Senior Center
 ADDRESS: 2 North Lowell Road
 Windham, NH 03087
 CLIENT: Nobis Engineering, Inc.





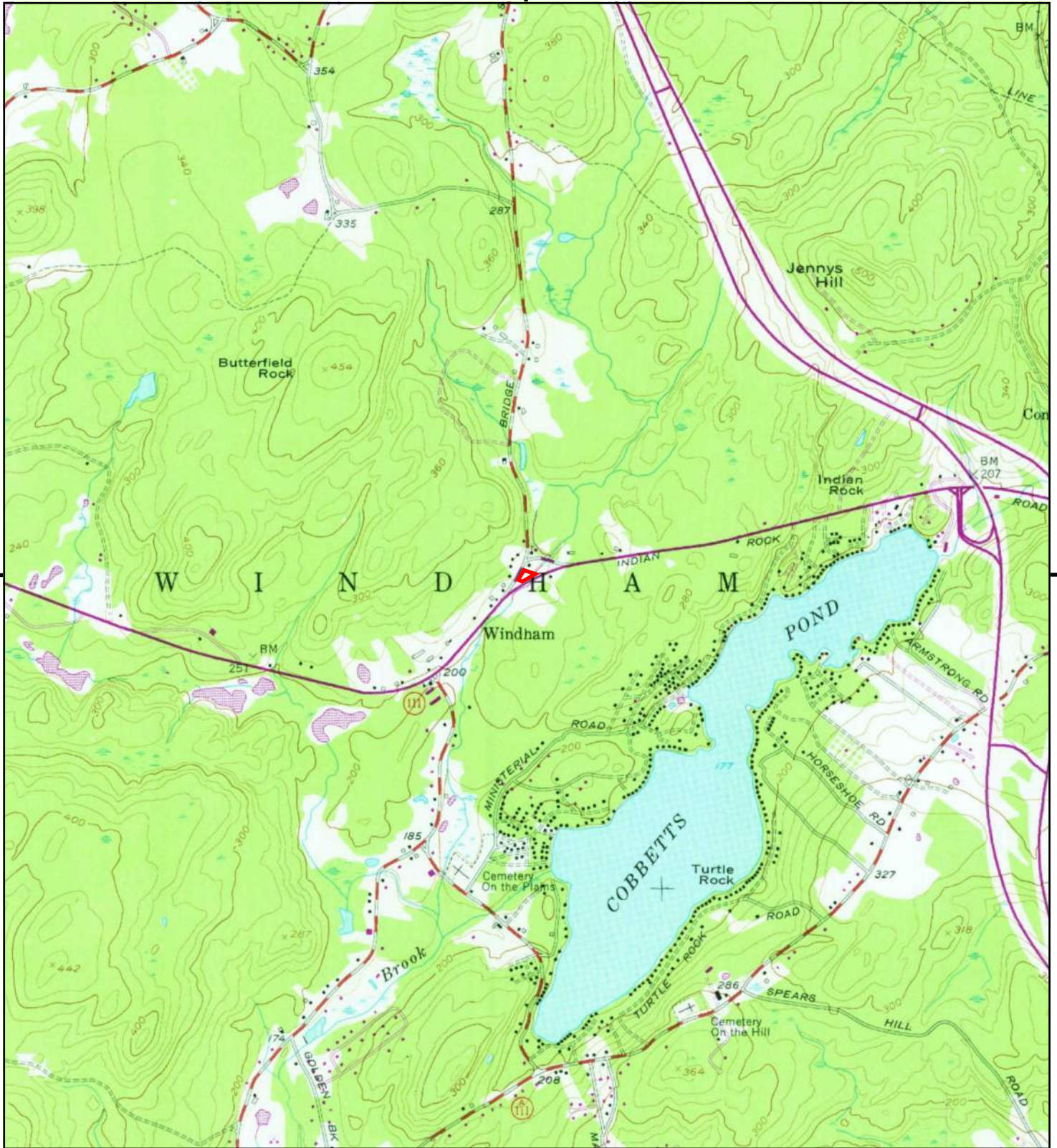
This report includes information from the following map sheet(s).



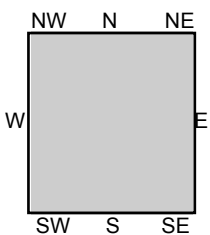
TP, Windham, 1985, 7.5-minute

SITE NAME: Windham Senior Center
 ADDRESS: 2 North Lowell Road
 Windham, NH 03087
 CLIENT: Nobis Engineering, Inc.





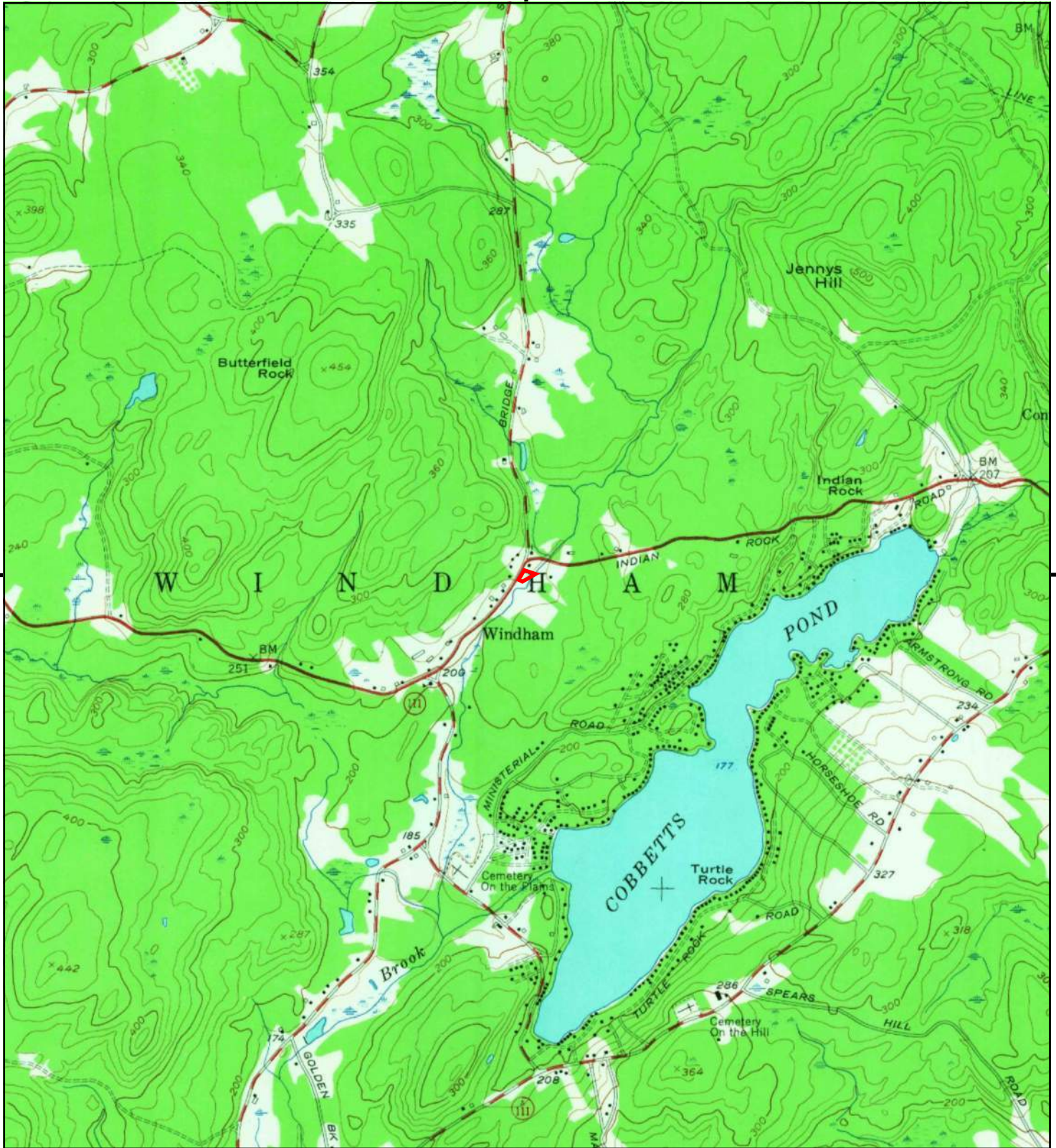
This report includes information from the following map sheet(s).



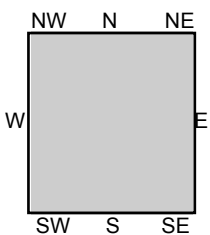
TP, Windham, 1974, 7.5-minute

SITE NAME: Windham Senior Center
ADDRESS: 2 North Lowell Road
Windham, NH 03087
CLIENT: Nobis Engineering, Inc.





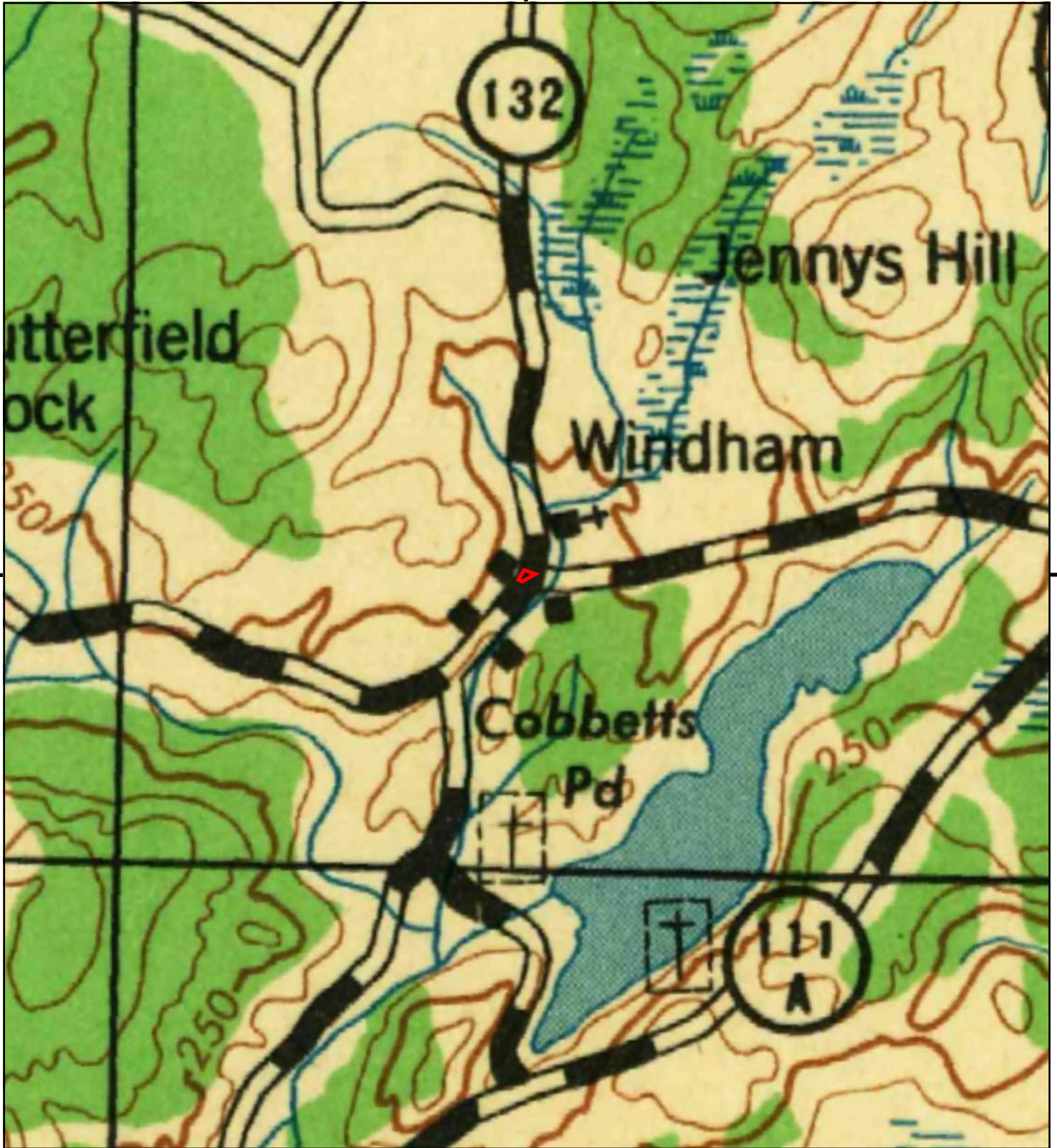
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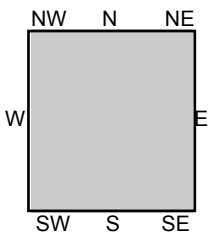
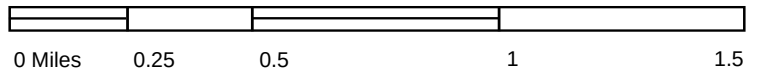
TP, Windham, 1953, 7.5-minute

SITE NAME: Windham Senior Center
ADDRESS: 2 North Lowell Road
Windham, NH 03087
CLIENT: Nobis Engineering, Inc.





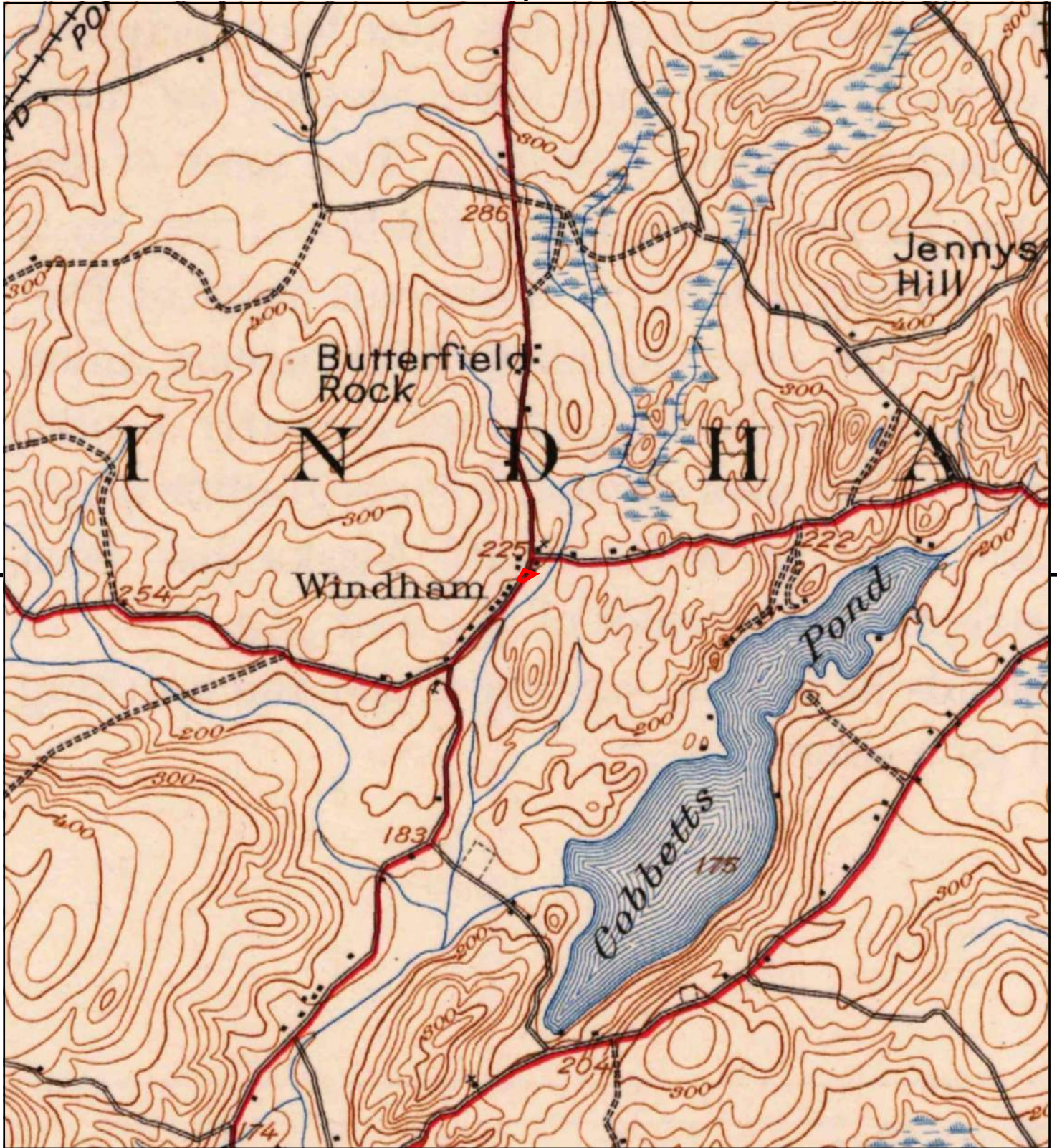
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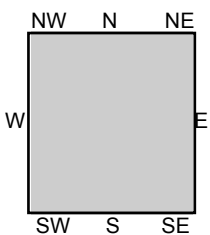
TP, Lowell, 1943, 30-minute

SITE NAME: Windham Senior Center
 ADDRESS: 2 North Lowell Road
 Windham, NH 03087
 CLIENT: Nobis Engineering, Inc.





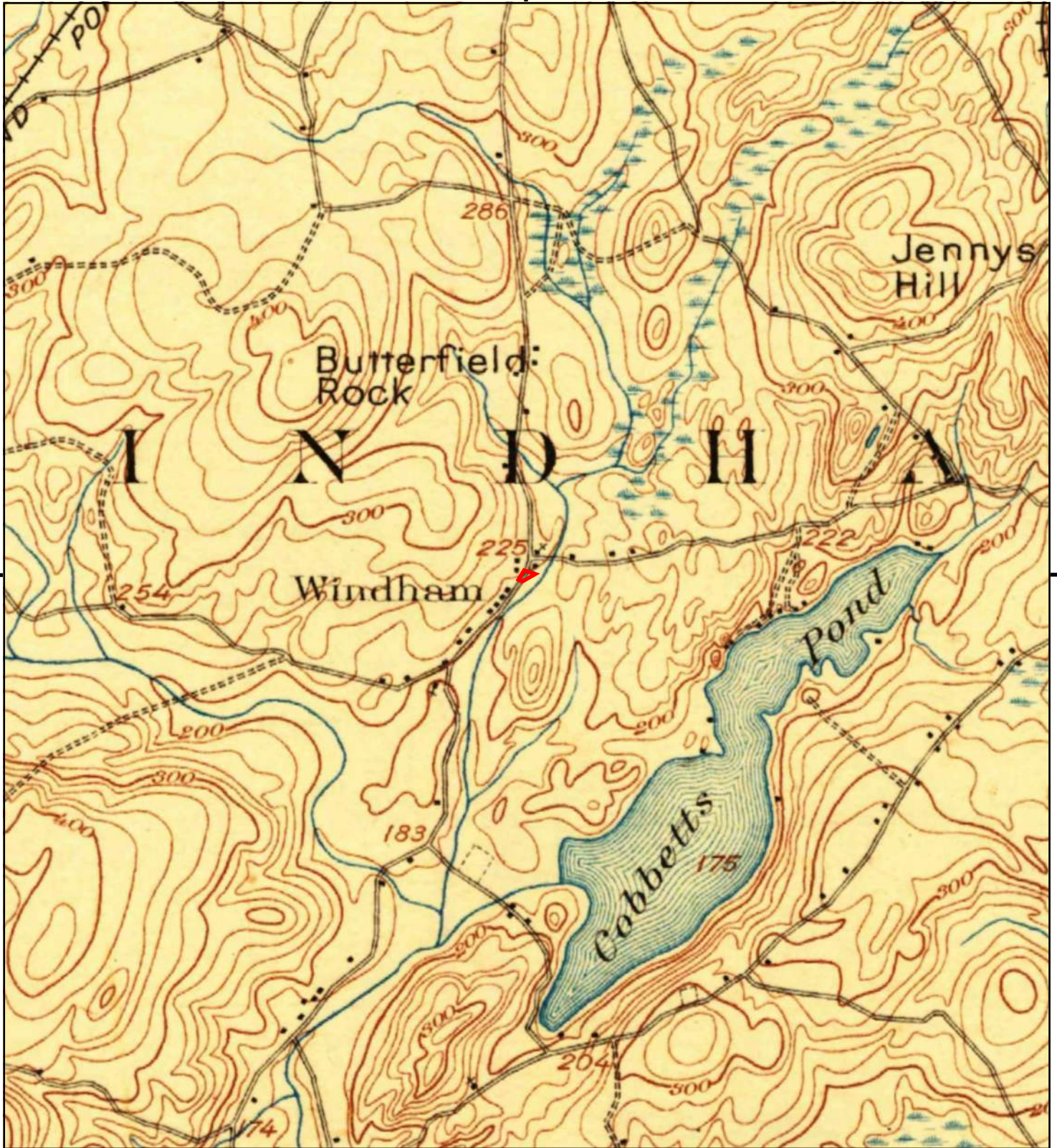
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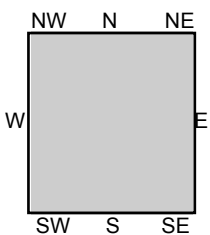
TP, Manchester, 1941, 15-minute

SITE NAME: Windham Senior Center
ADDRESS: 2 North Lowell Road
Windham, NH 03087
CLIENT: Nobis Engineering, Inc.





This report includes information from the following map sheet(s).



TP, Manchester, 1905, 15-minute

SITE NAME: Windham Senior Center
 ADDRESS: 2 North Lowell Road
 Windham, NH 03087
 CLIENT: Nobis Engineering, Inc.



Windham Senior Center

2 North Lowell Road

Windham, NH 03087

Inquiry Number: 5339903.8

June 21, 2018

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/21/18

Site Name:

Windham Senior Center
2 North Lowell Road
Windham, NH 03087
EDR Inquiry # 5339903.8

Client Name:

Nobis Engineering, Inc.
18 Chenell Drive
Concord, NH 03301
Contact: Jason H. Pelchat



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Acquisition Date: April 11, 1998	USGS/DOQQ
1992	1"=750'	Flight Date: April 29, 1992	USGS
1985	1"=500'	Flight Date: April 17, 1985	USGS
1977	1"=500'	Flight Date: May 04, 1977	USDA
1975	1"=500'	Flight Date: May 17, 1975	USGS
1969	1"=500'	Flight Date: September 13, 1969	USGS
1960	1"=500'	Flight Date: May 01, 1960	USGS
1953	1"=500'	Flight Date: May 03, 1953	USGS
1947	1"=500'	Flight Date: April 28, 1947	USGS

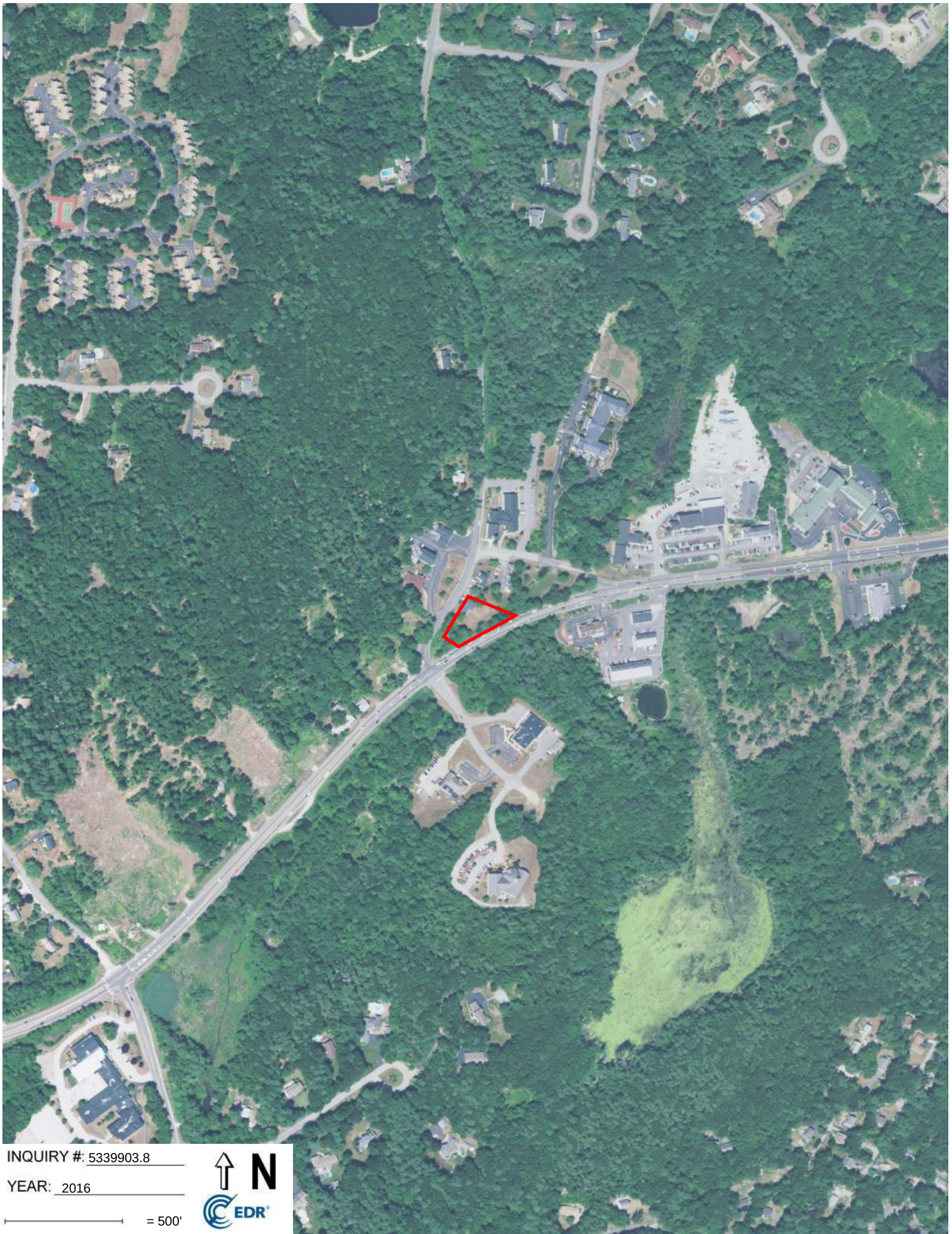
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INQUIRY #: 5339903.8

YEAR: 2016

— = 500'



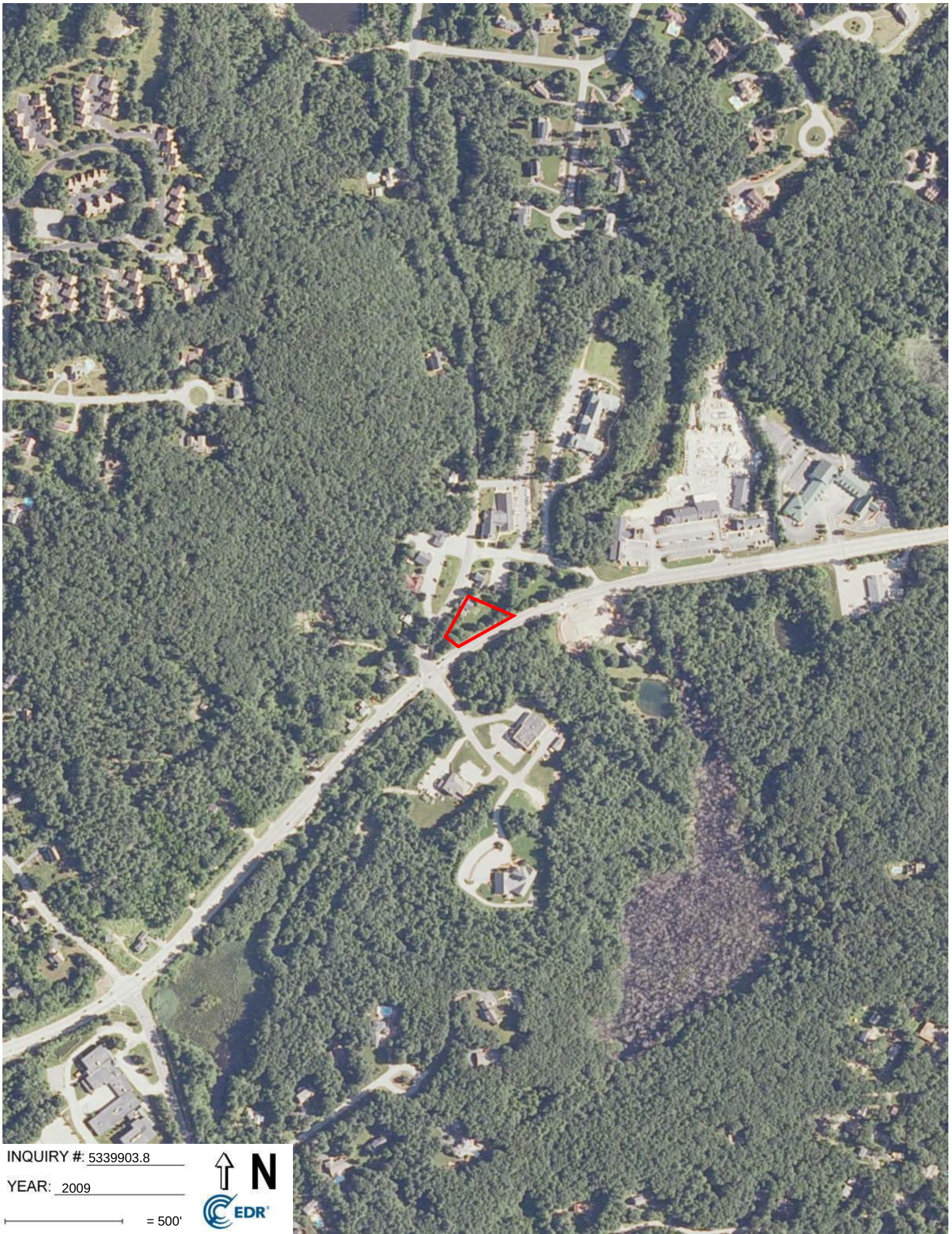


INQUIRY #: 5339903.8

YEAR: 2012

— = 500'



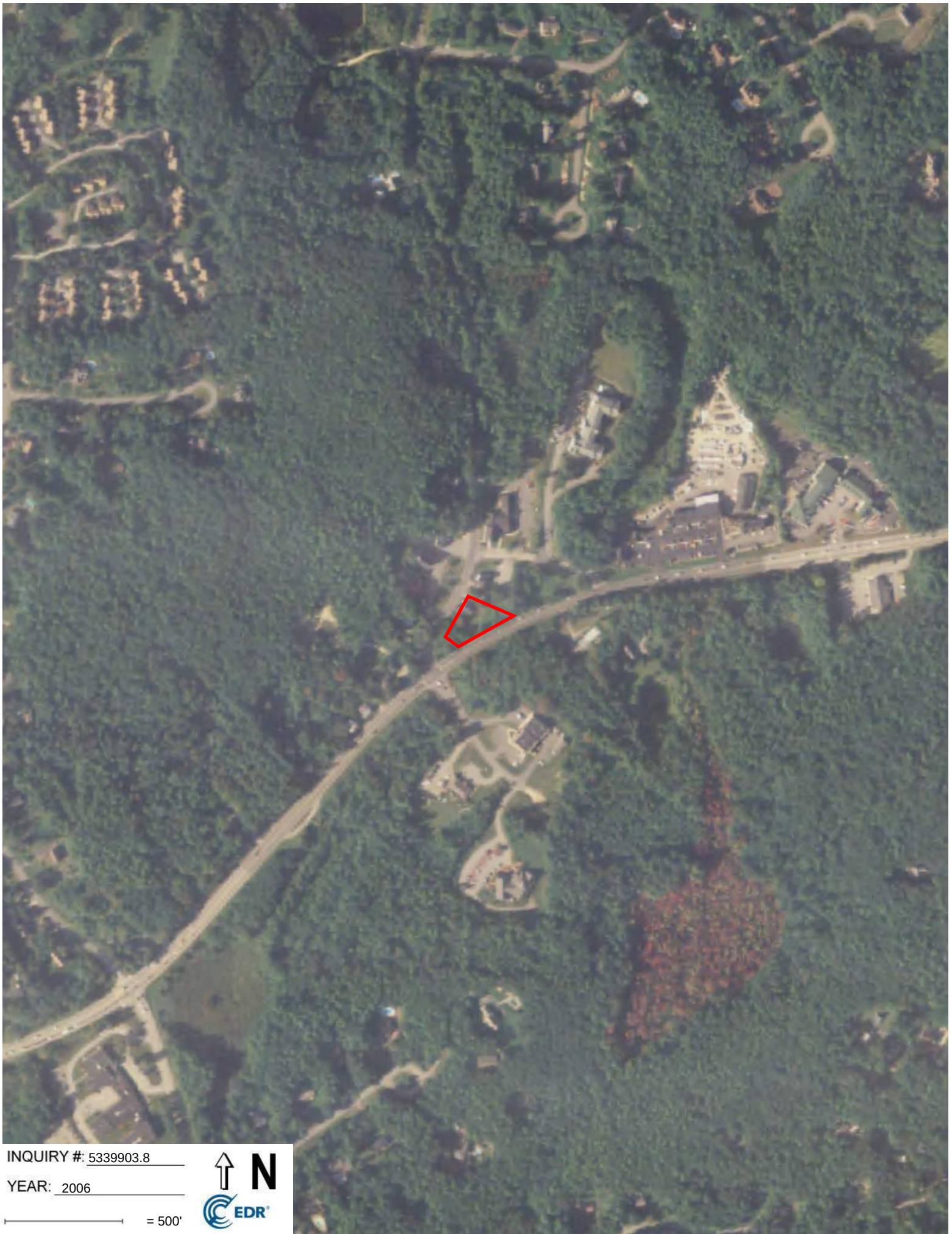


INQUIRY #: 5339903.8

YEAR: 2009

— = 500'





INQUIRY #: 5339903.8

YEAR: 2006

— = 500'





INQUIRY #: 5339903.8

YEAR: 1998

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5339903.8

YEAR: 1992

— = 750'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5339903.8

YEAR: 1985

— = 500'





INQUIRY #: 5339903.8

YEAR: 1977

— = 500'





INQUIRY #: 5339903.8

YEAR: 1975

— = 500'







INQUIRY #: 5339903.8

YEAR: 1960

— = 500'





INQUIRY #: 5339903.8

YEAR: 1953

500'





INQUIRY #: 5339903.8

YEAR: 1947

— = 500'





Windham Senior Center
2 North Lowell Road
Windham, NH 03087

Inquiry Number: 5339903.3

June 21, 2018

Certified Sanborn® Map Report



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Shelton, CT 06484
Toll Free: 800.352.0050
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Certified Sanborn® Map Report

06/21/18

Site Name:

Windham Senior Center
2 North Lowell Road
Windham, NH 03087
EDR Inquiry # 5339903.3

Client Name:

Nobis Engineering, Inc.
18 Chenell Drive
Concord, NH 03301
Contact: Jason H. Pelchat



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Certified Sanborn Results:

Certification # AD49-4017-B985
PO # 94200
Project Windham Senior Center

UNMAPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: AD49-4017-B985

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- ☒ University Publications of America
- ☒ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Windham Senior Center

2 North Lowell Road
Windham, NH 03087

Inquiry Number: 5339903.5
June 25, 2018

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

infoUSA[®]

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	☒	☐	EDR Digital Archive
2010	☒	☐	EDR Digital Archive
2005	☒	☐	EDR Digital Archive
2000	☒	☐	EDR Digital Archive
1995	☒	☐	EDR Digital Archive
1992	☒	☐	EDR Digital Archive
1989	☒	☐	Cole Criss-Cross Directory
1985	☒	☐	Cole Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

2 North Lowell Road
Windham, NH 03087

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

N LOWELL RD

2014	pg A1	EDR Digital Archive
2010	pg A2	EDR Digital Archive
2005	pg A3	EDR Digital Archive
2000	pg A4	EDR Digital Archive
1995	pg A5	EDR Digital Archive
1992	pg A6	EDR Digital Archive
1989	pg A7	Cole Criss-Cross Directory
1985	pg A8	Cole Criss-Cross Directory
1985	pg A9	Cole Criss-Cross Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

N LOWELL RD 2014

1	LAMB, PATRICK
3	WCTV
	WINDHAM TOWN OF
5	OCCUPANT UNKNOWN,
9	LUIPPOLD, JAYSON R

N LOWELL RD 2010

1	OCCUPANT UNKNOWN,
3	WINDHAM TOWN OF
5	STUART, JAMES E
9	BELORITSKY, MARK
	POLVIC LLC
11	MICHALIK, CHRISTOPHER A

N LOWELL RD 2005

3	WINDHAM TOWN OF
4	WINDHAM TOWN OF
5	MACKEY, ROBERT S
9	BELORITSKY, VICTOR
11	MICHALIK, CHRISTOPHER A

N LOWELL RD 2000

3	DAVIS, GLENN
	WINDHAM FIRE DEPARTMENT
	WINDHAM TOWN HALL
	WINDHAM TOWN OF
5	STUART, SCOTT A
6	IVEY, RICHARD
9	BELORITSKY, VICTOR

N LOWELL RD**1995**

3 NESMITH LIBRARY
WINDHAM FIRE DEPARTMENT
WINDHAM TOWN HALL
WINDHAM TOWN OF
5 STUART, JAS & SALLY
9 MCENANEY, PAUL

N LOWELL RD**1992**

- | | |
|---|-------------------------|
| 3 | NESMITH LIBRARY |
| | WINDHAM FIRE DEPARTMENT |
| | WINDHAM TOWN HALL |
| | WINDHAM TOWN OF |
| 9 | MCENANEY, PAUL |

N LOWELL RD 1989

RESIDENCE			
● LORI RD			
● RR 1		03087	
1- 99 CT1061		*A.B 2	
1	Norman Roy	79	893-2030
4	David Dellea	87	893-2366
5	Donald E Kepus	79	893-2086
9		NP	
10	B Scott	83	893-5015
NO #	Donald R St George	72	893-0036
6	RESIDENCE		
● LOWELL RD			
● RR 3		03087	
1- 199 CT1061		*A.B 2	
3	4 16 20 27 28	NP	
● RR 6		03087	
30	Richard Comeau	-	894-4321
31	★ Dr A B Filler	87	898-2072
	★ Dr Claude Lamar	88	893-7740
	★ Prizio Realty	86	898-3400
	★ Dr Edward Yourtee	88	893-3400
33	James H Sommers	79	898-7598
35		NP	
39	Stephen Negus	82	898-5010
43	46	NP	
47	John L Cyr	73	893-8003
	★ Lou Giza Equipment	85	893-7743
49		NP	
50	Robert H George	85	898-3078
55	Raymond Durbin	85	893-2348
63	Robert F Guyre Jr	83	893-9437
66	Steven P Nelson	79	893-2837
68		NP	
69	Joan A Barron	85	893-4462
70		NP	
76	Roger W Binette	70	898-2086
80	R Burris	79	893-1255
84	Eldon J Haegle	76	898-9195
87	90	NP	
95	H K Werner	86	898-2633
103	★ Accu Drill	86	898-9355
105	Frank W Atwood	86	893-2665
	★ Dollys Bty Shoppe		898-5052
107	A A Fraize	85	898-1477
108	Kenneth J White	77	898-9696
110	Thomas R Sawyer	77	893-0494
114	Orea Boisvert	82	898-9832
115	Robert Levi	87	898-1749
121	Frank McCarthy	87	893-5231
125	Matthew C Connors	-	893-2059
128		NP	
129	W L Johnson Jr	86	893-2226
131	Wava Oakman	84	893-6138
133		NP	
135	Douglas Bradley	88	898-2665
137	Colin J Walker Jr	70	898-9002
139	Jos Bukowski	84	898-8298
140	David K Ball	81	893-2544
	David L Quint	81	893-2544
141	Robert E Perrault	73	893-8790
143	Joseph Lemieux	86	893-4683
145	Cath S Bradley	74	898-9032
151	E O Vermillion	76	893-8061
NO #	Hayden A Baker	63	893-0184
NO #	Herman E Baker	63	898-9482
NO #	Leon Berry	63	893-0338
NO #	Agnes P Cyr	76	893-1735
NO #	Michael Follansbee	84	893-1173
NO #	Gregory Franklin	80	898-5107
NO #	Robert J Gauthier	73	898-5235
NO #	★ Granite State Engr	78	893-8622
NO #	William T Hurrell	71	898-9457
NO #	Francis Keefe	63	898-7879
NO #	Robert W Knight	73	898-9504
NO #	Charles Landry	75	893-5010
NO #	★ Landrys Motorcycle	83	898-9239
NO #	Richard E Manning	63	893-3385
NO #	William Moeckel Jr	64	898-9484
NO #	F J Murphy Jr	67	898-9541
NO #	John Tokanel Jr	76	898-9193
NO #	John Tokanel Jr	63	898-9173
NO #	★ Golden Brk Principi	79	898-9586
NO #	★ Golden Brk Nurse		893-3010
NO #	★ Windham Schl Nurse		858-3240
NO #	★ Windham Middle School	87	893-2636
NO #	Toby Young	85	898-7683
NO #	Toby Young	85	898-8772
NO #	E Paul Zins	71	898-4658
67	RESIDENCE	13	BUSINESS
● LOWELL RD S			
● RR 3		03087	
1- 199 CT1061		*A.B 2	
64	Paul J Gordon	87	898-7823
83	Iola Zins	70	898-9194
128		NP	
130	Kevin Maynard	83	893-3284
143		NP	
5	RESIDENCE		

N LOWELL RD 1985

10	B Scott	83	893-	
NO #	Donald R St George	72	893-	
	6 RESIDENCE			
● LOWELL RD				03087
	1- 199 TZ1061			\$A..B 2
3	4 16 20 27 28	NP		
31	★ Community Ins Agcy		893-	0540
	★ E Richard Doucette		893-	0540
	★ W F Grant Assoc		898-	1605
	William P McGriff	□	898-	1816
	★ Philadelphia Gear		898-	1605
33	James H Sommers	79	898-	7598
35		NP		
39	Stephen Negus	82	898-	5010
43	46	NP		
49	Richard F Barron	74	893-	4462
55	Fredk H Shepard	83	898-	1875
63	Robert F Guyre Jr	83	893-	9437
66	Steven P Nelson	79	893-	2837
68	Barbara McKinnon	□	898-	9192
70	Charles E Bedard	70	898-	9220
	R G Marcoux III	□	893-	0701
76	Roger W Binette	70	898-	2086
80	R Burris	79	893-	1255
84	Eldon J Haegle	76	898-	9195
90		NP		
105	★ Dollys Bty Shoppe		898-	5052
107	H J Fraize	82	898-	1477
108	Kenneth J White	77	898-	9696
110	Thomas R Sawyer	77	893-	0494
111	Randy Hawkes	□	893-	2823
114	Orea Boisvert	82	898-	9832
128		NP		
129	George J Colburn	76	898-	2080
131	James R Long	□	893-	6138
	Wava Oakman	□	893-	6138
JTER OR PHOTOGRAPHED IN ANY MANNER WHATSOEVER				
73,74,75,Etc. — Year First Listed 1973,74,75,Etc \$A#B,Etc —				

N LOWELL RD 1985

/RENCE		MOECKEL RD	
133	B L Demars	893-2512	893-2512
135	K Mariani	893-5115	893-5115
137	Colin J Walker Jr	70	898-9002
139	Joseph Bukowski	898-8298	898-8298
140	David K Ball	81	893-2544
	David L Quint	81	893-2544
141	Robert E Perrault	73	893-8790
143		NP	
145	Cath S Bradley	74	898-9032
151	E O Vermillion	76	893-8061
NO #	Hayden A Baker	63	893-0184
NO #	Herman E Baker	63	898-9482
NO #	S M Batcheller	70	898-4929
NO #	Leon Berry	63	893-0338
NO #	Agnes P Cyr	76	893-1735
NO #	John L Cyr	73	893-8003
NO #	Michael Follansbee	893-1173	893-1173
NO #	Gregory Franklin	80	898-5107
NO #	Robert J Gauthier	73	898-5235
NO #	Marion W Gordon	63	898-7823
NO #	★ Granite State Engr		893-8622
NO #	William T Hurrell	71	898-9457
NO #	Francis Keefe	63	898-7879
NO #	Robert W Knight	73	898-9504
NO #	Charles Landry	75	893-5010
NO #	★ Landrys Motorcycle		898-9239
NO #	Mary MacKillop	82	898-9381
NO #	Richard E Manning	63	893-3385
NO #	William Moeckel Jr	64	898-9484
NO #	Traugott J Mohs	63	898-9483
NO #	F J Murphy Jr	67	898-9541
NO #	John Tokanel Jr	76	898-9193
NO #	John Tokanel Jr	63	898-9173
NO #	★ Goldn Brk Principl		898-9586
NO #	★ Golden Brk Nurse		893-3010
NO #	Stephen L Young	74	893-8772
NO #	E Paul Zins	71	898-4658
	65 RESIDENCE	9	BUSINESS
● LOWELL RD S		03087	
	1- 199 TZ1061	\$A.B 2	
83	Iola Zins	70	898-9194
128	Stephen Habbick	893-9384	893-9384
130	Kevin Maynard	83	893-328
143		NP	

APPENDIX C

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: MW-1					
Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>					Checked by: <u>J. Ricker</u>					
Location: <u>Windham, NH</u>					Date Start: <u>December 11, 2017</u>					Date Finish: <u>December 11, 2017</u>					
Nobis Project No.: <u>94200.00</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____					
Contractor: <u>Geosearch, Inc.</u>					Hammer Type: <u>Automatic Hammer</u>					Datum: _____					
Driller: <u>C. Stamas</u>					Hammer Hoist: <u>Automatic</u>										
Nobis Rep.: <u>J. Stewart</u>															
Drilling Method		Sampler		Groundwater Observations											
Type	Hollow Stem Auger	Split-Spoon		Date	12/13/17	Time	11:20	Depth Below Ground (ft.)	10.51	Depth of Casing (ft.)		Depth to Bottom of Hole (ft.)		Stabilization Time	
Size ID (in.)	4.25	1-3/8													
Advancement	Augered	140-lb Hammer													

SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)		WELL DETAIL		NOTES
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)				
1	S-1	15	0-2	4			Topsoil / 0.5	S-1A (4"): Medium dense, dark brown, fine SAND and Silt. with some roots and grass moist. (TOPSOIL).			2-inch PVC well finished with 8-inch protective roadbox Backfill with mix of auger cuttings and filter sand Bentonite Seal #2 Filter Sand 6 to 17.4 feet Screwed 7.4 to 17.4 feet
2				6				S-1B (11"): Medium dense, tan, fine SAND, some Silt, trace fine Gravel. moist. (FILL).			
3				6							
4				8							
5							Fill				
6	S-2	12	5-7	2			/ 5.0	S-2: Medium dense, tan gray, fine to coarse SAND, trace Silt. moist.			
7				2							
8				9							
9	S-3	3	7-9	11			Sand	S-3: Loose, tan gray, fine to coarse SAND, some fine to coarse Gravel, trace Silt. moist.			
10				4							
11				3							
12	S-4	16	9-11	6			/ 9.0	S-4: Medium dense, light gray, fine to medium SAND, little Silt, trace coarse Sand, trace coarse gravel. moist.			
13				9							
14				14			Silty Sand				
15				15			/ 11.0				
16	S-5	18	11-13	15				S-5: Dense, light gray, fine to medium SAND, little coarse Sand, little fine to coarse Gravel, trace silt. very moist.			
17				22							
18				24							
19	S-6	16	13-15	7			Sand	S-6: Medium dense, light gray, fine to medium SAND, little coarse Sand, little fine Gravel, trace silt. wet.			
20				8							
21				12							
22				14			/ 15.0				
23	S-7	24	15-17	18				S-7: Dense, tan brown, fine SAND, some medium Sand, little Silt, trace coarse sand, trace fine gravel. wet.			
24				22			Silty Sand				
25				22							
26				30			/ 17.4				
27								Boring terminated at 17.4 feet on auger refusal.			
28											
29											
30											

Soil	Percentage	Non-Soil	NOTES:
trace	5 - 10	very few	
little	10 - 20	few	
some	20 - 35	several	
and	35 - 50	numerous	

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.

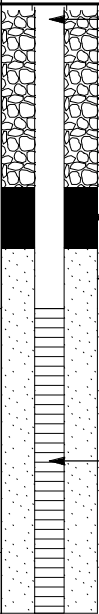
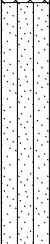
BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: MW-2				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 11, 2017</u>				
										Date Finish: <u>December 11, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method		Sampler		Groundwater Observations								
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time			
Size ID (in.)		4.25		1-3/8		12/11/17	14:30	9.90	10		2 hrs			
Advancement		Augered		140-lb Hammer										
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					NOTES		
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	15	0-2	3			Topsoil / 0.5	S-1A (5"): Medium dense, dark brown, fine SAND, some Silt, trace coarse Gravel, with grass and roots. moist. (TOPSOIL).						
				6				S-1B (10"): Medium dense, tan, fine SAND, some Silt, trace coarse Gravel. moist. (FILL).						
2				10										
				6										
3														
4														
5														
6	S-2	12	5-7	2				S-2: Loose, tan, fine SAND, little Silt. moist. (FILL).						
				3										
				3										
7				2			/ 7.0							
8	S-3	12	7-9	3				S-3: Loose, tan, fine SAND, some Silt, trace medium Sand, trace fine gravel. moist.						
				1										
				4										
9				4										
	S-4	5	9-9.6	1				S-4: Medium dense, tan, fine SAND, some Silt, trace medium Sand, trace fine gravel. moist.						
10				1			/ 10.0	Boring terminated at 10 feet on auger refusal.						
				25/0"										
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
Soil	Percentage	Non-Soil	NOTES:											
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratus; transitions may be gradual.												Page No. 1 of 1		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: MW-3					
Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>					Checked by: <u>J. Ricker</u>					
Location: <u>Windham, NH</u>					Date Start: <u>December 12, 2017</u>					Date Finish: <u>December 12, 2017</u>					
Nobis Project No.: <u>94200.00</u>					Ground Surface Elev.: _____					Datum: _____					
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____					
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>					Datum: _____					
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____					
		Drilling Method		Sampler		Groundwater Observations									
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time				
Size ID (in.)		4.25		1-3/8		12/13/17	12:20	6.78							
Advancement		Augered		140-lb Hammer											
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					WELL DETAIL		NOTES	
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)								
1	S-1	18	0-2	13			/ 0.3 Asphalt	S-1A (12"): Dense, brown, fine to medium SAND, little coarse Sand, little fine Gravel, little silt. moist. (FILL).							2-inch PVC well finished with 8-inch protective roadbox Backfill with mix of auger cuttings and filter sand Bentonite Seal #2 Filter Sand 5 to 16 feet Screened 6 to 16 feet
				23			Fill	S-1B (6"): Rock.							
2				19			/ 2.0								
3															
4															
5															
6															
7															
8															
9	S-2	24	8-10	6				S-2: Medium dense, brown gray, fine SAND and Silt, trace medium to coarse Sand. moist.							
10				9											
11	S-3	24	10-12	5				S-3: Medium dense, brown gray, fine SAND and Silt, trace medium to coarse Sand, trace fine gravel. moist.							
12				8											
13	S-4	24	12-14	17				S-4: Dense, brown gray, fine SAND and Silt, trace medium to coarse Sand, trace fine gravel. moist.							
14				20											
15	S-5	15	14-15.7	6				S-5A (5"): Very dense, brown, fine to medium SAND, little coarse Sand, little Silt. wet.							
16				39			/ 14.5	S-5B (10"): Very dense, brown, fine to medium SAND. moist. (WEATHERED BEDROCK).							
17				50/2"			/ 16.0	Boring terminated at 16 feet on auger refusal.							
18															
19															
20															
Soil		Percentage		Non-Soil		NOTES:									
trace		5 - 10		very few											
little		10 - 20		few											
some		20 - 35		several											
and		35 - 50		numerous											
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratus; transitions may be gradual.													Page No. 1 of 1		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: MW-4				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 11, 2017</u>				
										Date Finish: <u>December 12, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method		Sampler		Groundwater Observations								
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time			
Size ID (in.)		4.25		1-3/8		12/13/17	12:00	5.40						
Advancement		Augered		140-lb Hammer										
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					WELL DETAIL		NOTES
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	16	0-2	5	▼		Fill	S-1: Medium dense, brown, fine SAND, some Silt, little medium to coarse Sand, little fine to coarse gravel. moist. (FILL).						
2				8				Silty Sand	S-2A (11"): Very dense, brown, fine to medium SAND, some Silt, little fine to coarse Gravel. moist.					
3				6					S-2B (3"): Very dense, coarse GRAVEL, rock.					
4				8					S-3A (9"): Dense, brown, fine SAND, little Silt. moist.					
5									S-3B (9"): Dense, brown, fine to medium SAND, little coarse Sand, little Silt, trace fine gravel. moist.					
6	S-2	14	5-7	8	▼		/ 5.0		S-4: Rock.					
7				33				Boring terminated at 10 feet on auger refusal.						
8				28										
9				28										
10	S-3	18	7-9	14										
11				13	▼		/ 9.0							
12				21										
13				27										
14	S-4	0	9-9.4	100/5"										
15														
16														
17														
18														
19														
20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratus; transitions may be gradual.														
												Page No. <u>1</u> of <u>1</u>		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: MW-5					
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>					
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>					
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 12, 2017</u>					
										Date Finish: <u>December 12, 2017</u>					
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____					
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>										
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____					
		Drilling Method		Sampler		Groundwater Observations									
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time				
Size ID (in.)		4.25		1-3/8		12/13/17	00:00	6.25							
Advancement		Augered		140-lb Hammer											
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					WELL DETAIL		NOTES	
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)								
1							Topsoil / 0.5								
2															
3							Sand								
4															
5							/ 5.0								
6	S-1	18	5-7	2				S-1A (10"): Very dense, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. moist.							
				50				S-1B (8"): Rock.							
				90											
7				44											
	S-2	15	7-9	12				S-2: Dense, brown, fine to medium SAND, little Silt, trace fine to coarse Gravel. moist.							
8				13			Silty Sand								
				21											
9				33											
	S-3	15	9-10.7	15				S-3: Hard, brown, fine to coarse SAND, little Silt, little fine to coarse Gravel. wet.							
10				22											
				22											
11				50/2"			/ 11.0								
12							Rock								
13							/ 13.0								
14								Boring terminated at 13 feet on auger refusal.							
15															
16															
17															
18															
19															
20															
Soil	Percentage	Non-Soil		NOTES:											
trace	5 - 10	very few													
little	10 - 20	few													
some	20 - 35	several													
and	35 - 50	numerous													
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.														Page No. 1 of 1	

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: SB-1				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 11, 2017</u>				
										Date Finish: <u>December 11, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method			Sampler		Groundwater Observations							
Type		Hollow Stem Auger			Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4.25			1-3/8									
Advancement		Augered			140-lb Hammer									
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)						NOTES	
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	18	0-2	10			Fill / 2.0	S-1A (2"): Medium dense, brown, fine SAND and Silt. few roots and grass. moist. (TOPSOIL).						
				15				S-1B (3"): Medium dense, tan, fine SAND, little medium Sand, trace Silt. moist.						
				14				S-1C (6"): Medium dense, brown, fine SAND, some Silt, little fine Gravel. moist.						
				16				S-1D (6"): Medium dense, brown, fine to medium SAND, little fine Gravel, little Silt. moist.						
2								Tan, fine SAND, some Silt, trace fine Gravel, rock 5.5 to 8 feet. moist.						
3			2-5											
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14														
15														
16														
17														
18														
19														
20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													Page No. <u>1</u> of <u>1</u>	

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: SB-2				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 13, 2017</u>				
										Date Finish: <u>December 13, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method		Sampler		Groundwater Observations								
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time			
Size ID (in.)		4.25		1-3/8										
Advancement		Augered		140-lb Hammer										
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					NOTES		
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	21	0-2	16			Fill / 2.0	S-1A (5"): Dense, brown, fine to coarse SAND, some fine Gravel, trace Silt. dry. (FILL).						
				15	S-1B (4"): Dense, dark brown, fine SAND, little Silt, trace fine Gravel. moist. (FILL).									
				16	S-1C (12"): Dense, brown, fine SAND, little Silt, trace medium to coarse Sand. moist. (FILL).									
2				15	Boring terminated at 2 feet.									
3														
4														
5														
6														
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12														
13														
14														
15														
16														
17														
18														
19														
20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratus; transitions may be gradual.												Page No. <u>1</u> of <u>1</u>		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: SB-3				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 13, 2017</u>				
										Date Finish: <u>December 13, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method		Sampler		Groundwater Observations								
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time			
Size ID (in.)		4.25		1-3/8										
Advancement		Augered		140-lb Hammer										
Depth (ft.)	SAMPLE INFORMATION				Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)				NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.		Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	20	0-2	20		Fill	/ 2.0	S-1A (7"): Medium dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. dry. (FILL).						
				10				S-1B (12"): Medium dense, brown, fine SAND, little Silt, trace medium to coarse Sand. moist. (FILL).						
				7										
2				7				Boring terminated at 2 feet.						
3														
4														
5														
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12														
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14														
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16														
17														
18														
19														
20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.												Page No. <u>1</u> of <u>1</u>		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: SB-4				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 13, 2017</u>				
										Date Finish: <u>December 13, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method		Sampler		Groundwater Observations								
Type		Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time			
Size ID (in.)		4.25		1-3/8										
Advancement		Augered		140-lb Hammer										
SAMPLE INFORMATION					LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					NOTES		
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	20	0-2	25			Fill / 2.0	S-1A (9"): Dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. dry. (FILL).						
				19				S-1B (3"): Dense, dark brown, fine SAND, little Silt, trace medium to coarse Sand. moist. (FILL).						
				15				S-1C (8"): Dense, brown, fine SAND, little Silt, trace medium to coarse Sand. moist. (FILL).						
2				12				Boring terminated at 2 feet.						
3														
4														
5														
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18														
19														
20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.												Page No. <u>1</u> of <u>1</u>		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: SB-5				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 13, 2017</u>				
										Date Finish: <u>December 13, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method		Sampler		Groundwater Observations								
Type	Hollow Stem Auger		Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time				
Size ID (in.)	4.25		1-3/8											
Advancement	Augered		140-lb Hammer											
Depth (ft.)	SAMPLE INFORMATION				Ground Water	LITHOLOGY		SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)				NOTES		
	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.		Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	23	0-2	18		Fill	/ 2.0	S-1A (4"): Medium dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. dry. (FILL). S-1C (19"): Medium dense, brown, fine SAND, little Silt, trace medium to coarse Sand. moist. (FILL). Boring terminated at 2 feet.						
			9											
			8											
2				9										
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18														
19														
20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.												Page No. <u>1</u> of <u>1</u>		

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 1/30/18 10:38 - J:\94200.00 - TOWN OF WINDHAM PFAS INVESTIGATION\ENVIRONMENTAL\SAMPLING LOGS\BORING LOGS\WINDHAM PFAS BORING LOGS.GPJ

					BORING LOG					Boring No.: SB-6				
					Project: <u>Town Of Windham PFAS Investigation</u>					Boring Location: <u>See Boring Location Plan</u>				
					Location: <u>Windham, NH</u>					Checked by: <u>J. Ricker</u>				
					Nobis Project No.: <u>94200.00</u>					Date Start: <u>December 13, 2017</u>				
										Date Finish: <u>December 13, 2017</u>				
Contractor: <u>Geosearch, Inc.</u>					Rig Type / Model: <u>Truck / CME 85</u>					Ground Surface Elev.: _____				
Driller: <u>C. Stamas</u>					Hammer Type: <u>Automatic Hammer</u>									
Nobis Rep.: <u>J. Stewart</u>					Hammer Hoist: <u>Automatic</u>					Datum: _____				
		Drilling Method			Sampler		Groundwater Observations							
Type		Hollow Stem Auger			Split-Spoon		Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time		
Size ID (in.)		4.25			1-3/8									
Advancement		Augered			140-lb Hammer									
SAMPLE INFORMATION					LITHOLOGY			SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)					NOTES	
Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)							
1	S-1	19	0-2	28			Fill / 2.0	S-1A (4"): Dense, brown, fine to coarse SAND, little fine Gravel, trace Silt. dry. (FILL).						
				18	S-1B (9"): Dense, brown, fine SAND, little Silt, trace medium to coarse Sand. moist. (FILL).									
				19										
2				25	S-1C (6"): Dense, brown, fine to medium SAND, little Silt, trace coarse Sand, trace fine gravel. moist. (FILL).									
3								Boring terminated at 2 feet.						
4														
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20														
Soil	Percentage	Non-Soil		NOTES:										
trace	5 - 10	very few												
little	10 - 20	few												
some	20 - 35	several												
and	35 - 50	numerous												
Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between strata; transitions may be gradual.													Page No. <u>1</u> of <u>1</u>	

APPENDIX D

FIELD PROCEDURES

Test Borings

The test borings were performed in general accordance with ASTM method D1452 using a 4 1/4-inch I.D. hollow-stem auger drilling techniques with no water or drilling fluid being introduced into the borehole during drilling. If refusal was encountered, the test borings were advanced via air rotary drilling techniques to specified boring termination. Soil samples were obtained in general accordance with ASTM method D1586 intervals using a 24-inch stainless steel split barrel sampler driven by a 140-pound hammer free-falling a distance of approximately 30 inches. Soil samples collected during drilling were placed in glass 4-ounce glass jars supplied by the laboratory.

Groundwater Monitoring Well Installation

Groundwater monitoring wells were installed upon completion of each test boring. The monitoring wells consists of 2-inch I.D. Schedule 40 PVC well screen and riser pipe. The monitoring well screen consisted of 0.010-inch machine-slotted sections of PVC pipe. The threaded PVC monitoring well sections were joined by threaded connection without the use of cement or glue. Clean filter sand was placed surrounding the monitoring well screen. An approximately half-foot to one-foot thick bentonite seal was placed above the filter sand to limit the potential infiltration of water along the monitoring well. Formation material was then backfilled into the borehole to the ground surface. Each monitoring well was completed with an 8-inch traffic-rated flush-mounted road box or a 6-inch steel protective standpipe set within new concrete seals to protect the monitoring well from road traffic, tampering and vandalism. Details of the monitoring well construction are included on the boring logs in the appendices.

Groundwater Monitoring Well Development

Once monitoring well installation was complete, the monitoring wells were developed by using a Waterra™ surge block and inertial pump. The surge block significantly increases the surging/removal process by reducing the annular gap between the surge block and the inside wall of the monitoring well screen. As the surge block is forced up and down the screened portion of the monitoring well, water is forced in and out of the well screen, similar to traditional development procedures for large domestic water supply wells. The in-and-out motion of the water through the well screen assists in settling and setting the silica sand pack and removing potentially stagnant water from the monitoring well. In addition, fines accumulated in the bottom of the monitoring well and from the surrounding sand pack annulus are removed which in turn allows a fresh influx of groundwater from the surrounding geologic formation, thereby providing a more representative groundwater sample.

FIELD PROCEDURES

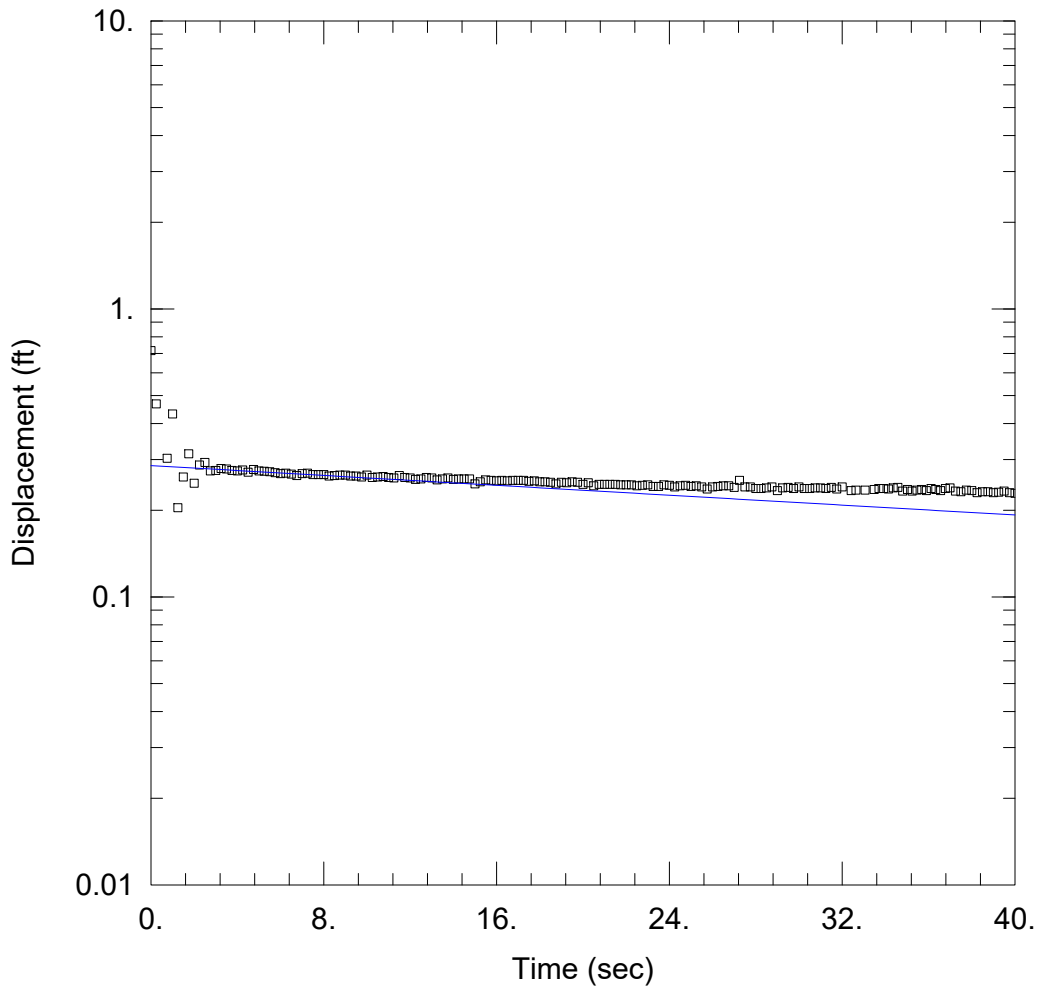
Groundwater Sample Collection Procedures

Static groundwater levels were measured in each monitoring well prior to sample collection using a Solinst electronic water level indicator.

Groundwater Sample Collection Procedures

Groundwater levels were measured in each well prior to sample collection using a Solinst electronic water level indicator. The wells were purged of at least three times the standing volume of water in the wells using a pre-cleaned high-density polyethylene (HDPE) disposable bailer. After purging the wells, groundwater samples were collected in accordance with the *NHDES PFC Sample Collection Guidance* document using dedicated bailers. Separate bailers were used for each well to limit the potential for cross-contamination. The water samples were collected into appropriate pre-preserved sample containers supplied by the laboratory and placed in an ice-filled cooler for delivery to the laboratory under chain-of-custody control.

APPENDIX E



MW-01 FALLING HEAD TEST 01

Data Set: J:\...\MW-01_Falling_T1.aqt

Date: 06/11/18

Time: 09:49:48

PROJECT INFORMATION

Company: Nobis Engineering

Client: Windham NH PFAS

Project: 94200

Location: Windham, NH

Test Well: MW-01

Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 8.36 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-01)

Initial Displacement: 0.717 ft

Static Water Column Height: 3.36 ft

Total Well Penetration Depth: 3.62 ft

Screen Length: 3.62 ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

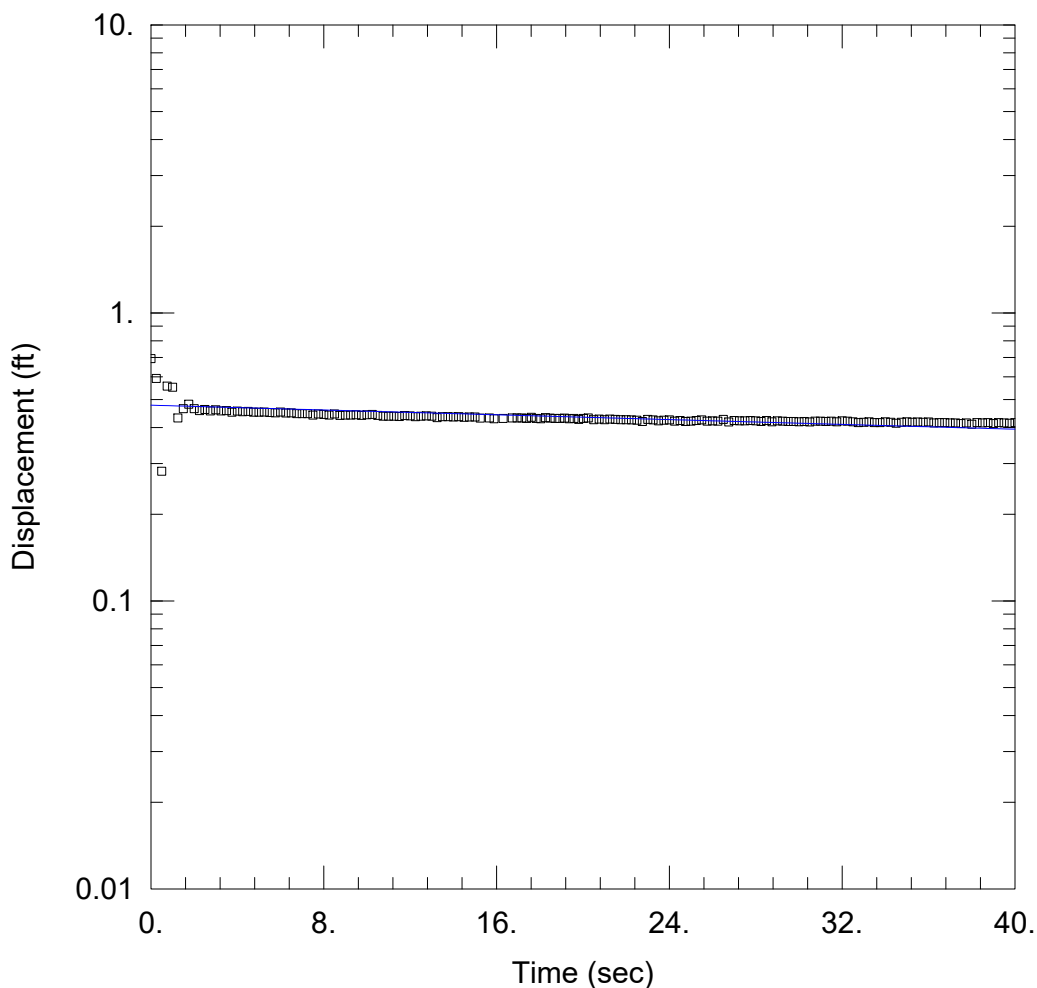
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 1.909$ ft/day

$y_0 = 0.2858$ ft



MW-01 FALLING HEAD TEST 02

Data Set: J:\...\MW-01_Falling_T2.aqt

Date: 06/11/18

Time: 09:48:07

PROJECT INFORMATION

Company: Nobis Engineering

Client: Windham NH PFAS

Project: 94200

Location: Windham, NH

Test Well: MW-01

Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 8.4 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-01)

Initial Displacement: 0.694 ft

Static Water Column Height: 3.66 ft

Total Well Penetration Depth: 3.66 ft

Screen Length: 3.66 ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

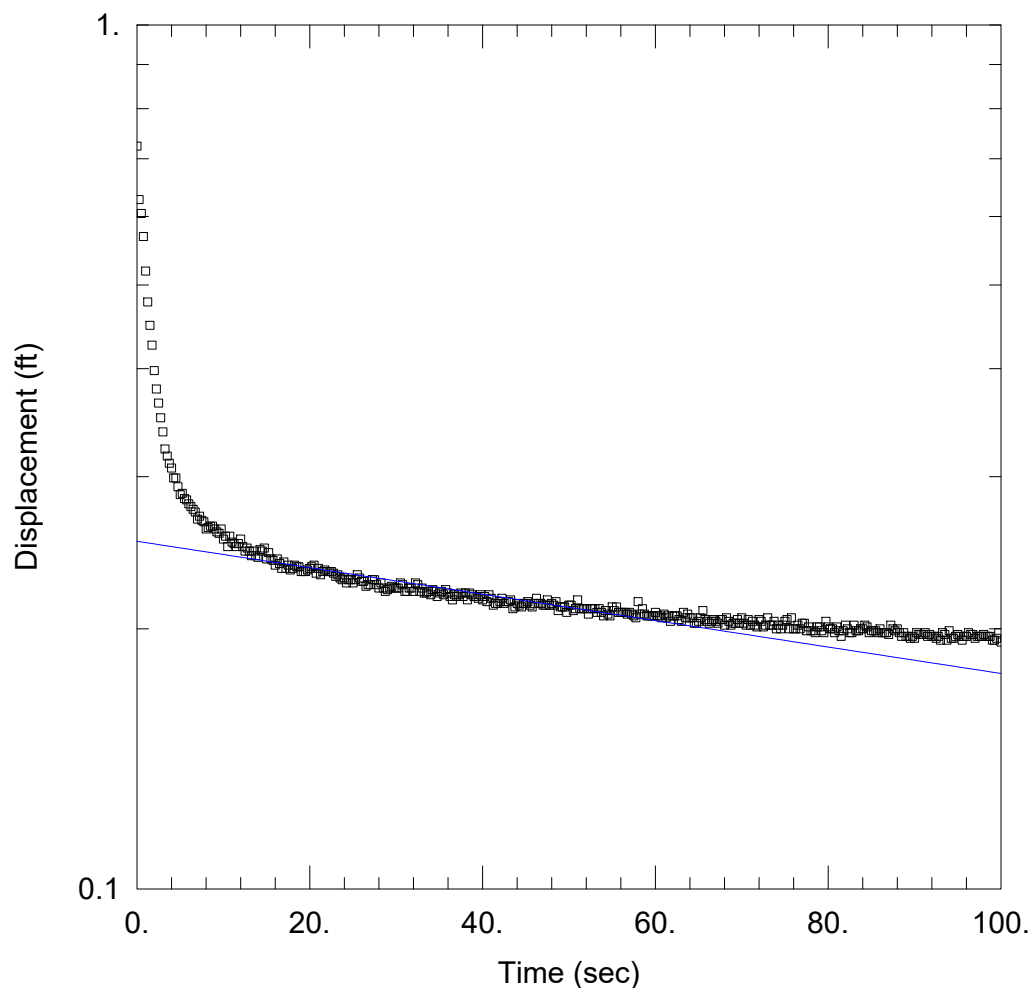
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.9212 ft/day

y_0 = 0.4781 ft



MW-01 RISING HEAD TEST

Data Set: J:\...\MW-01_Rising.aqt

Date: 06/11/18

Time: 10:44:05

PROJECT INFORMATION

Company: Nobis Engineering

Client: Windham NH PFAS

Project: 94200

Location: Windham, NH

Test Well: MW-01

Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 8.4 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-01)

Initial Displacement: 0.724 ft

Static Water Column Height: 3.66 ft

Total Well Penetration Depth: 3.62 ft

Screen Length: 3.62 ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

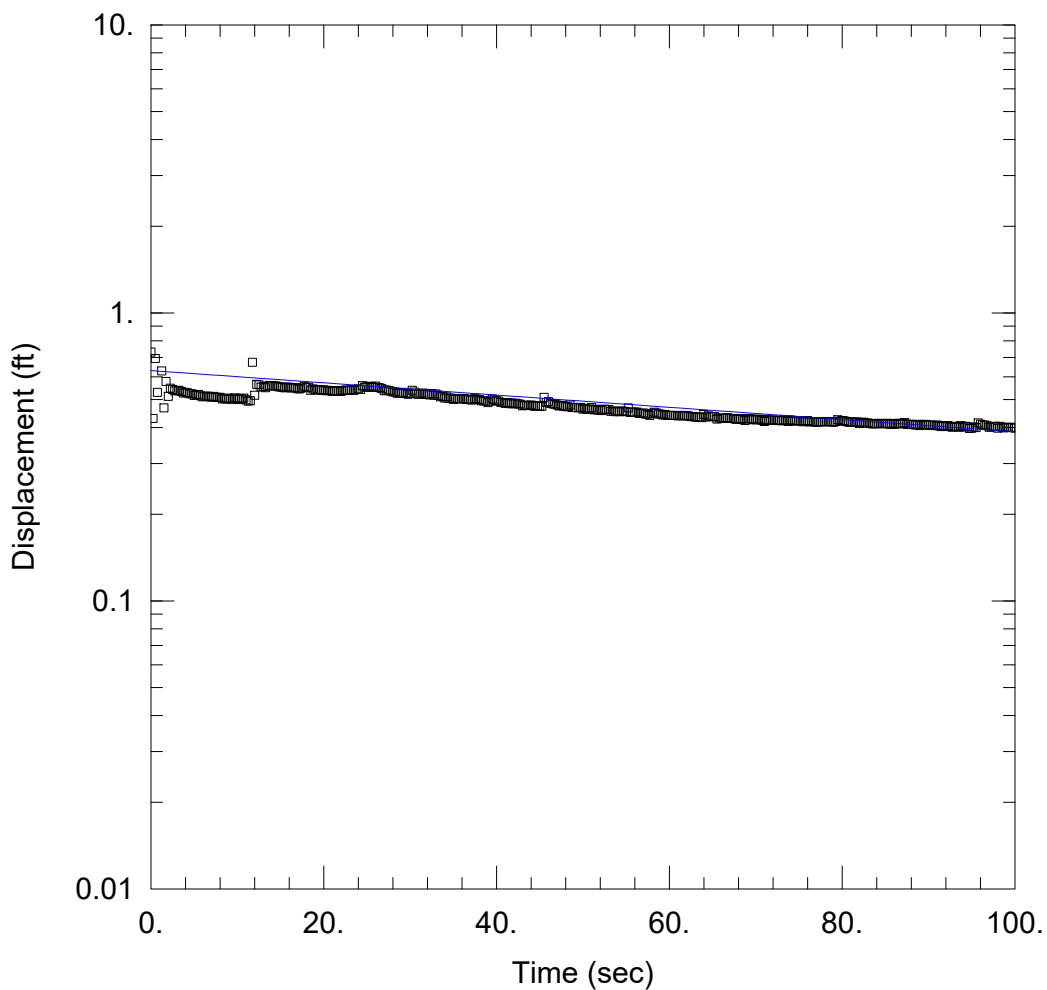
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.6813 ft/day

y_0 = 0.2526 ft



MW-03 FALLING HEAD TEST

Data Set: J:\...\MW-03_falling.aqt

Date: 06/11/18

Time: 10:44:18

PROJECT INFORMATION

Company: Nobis Engineering

Client: Windham NH PFAS

Project: 94200

Location: Windham, NH

Test Well: MW-03

Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 9.77 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-03)

Initial Displacement: 0.731 ft

Static Water Column Height: 7.99 ft

Total Well Penetration Depth: 7.99 ft

Screen Length: 7.99 ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

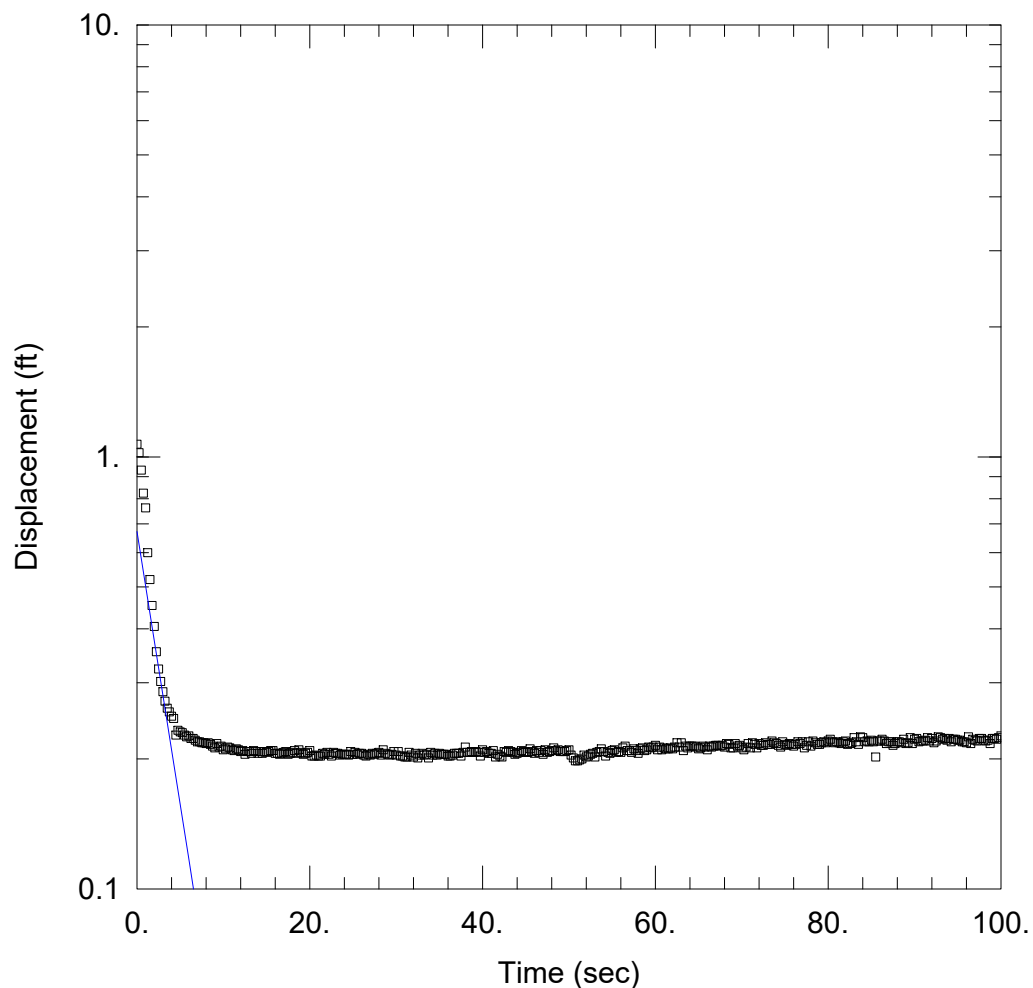
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.5574$ ft/day

$y_0 = 0.6307$ ft



MW-03 RISING HEAD TEST

Data Set: J:\...\MW-03_rising.aqt

Date: 06/11/18

Time: 10:45:42

PROJECT INFORMATION

Company: Nobis Engineering

Client: Windham NH PFAS

Project: 94200

Location: Windham, NH

Test Well: MW-03

Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 9.95 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-03)

Initial Displacement: 1.07 ft

Static Water Column Height: 8.17 ft

Total Well Penetration Depth: 8.17 ft

Screen Length: 8.17 ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

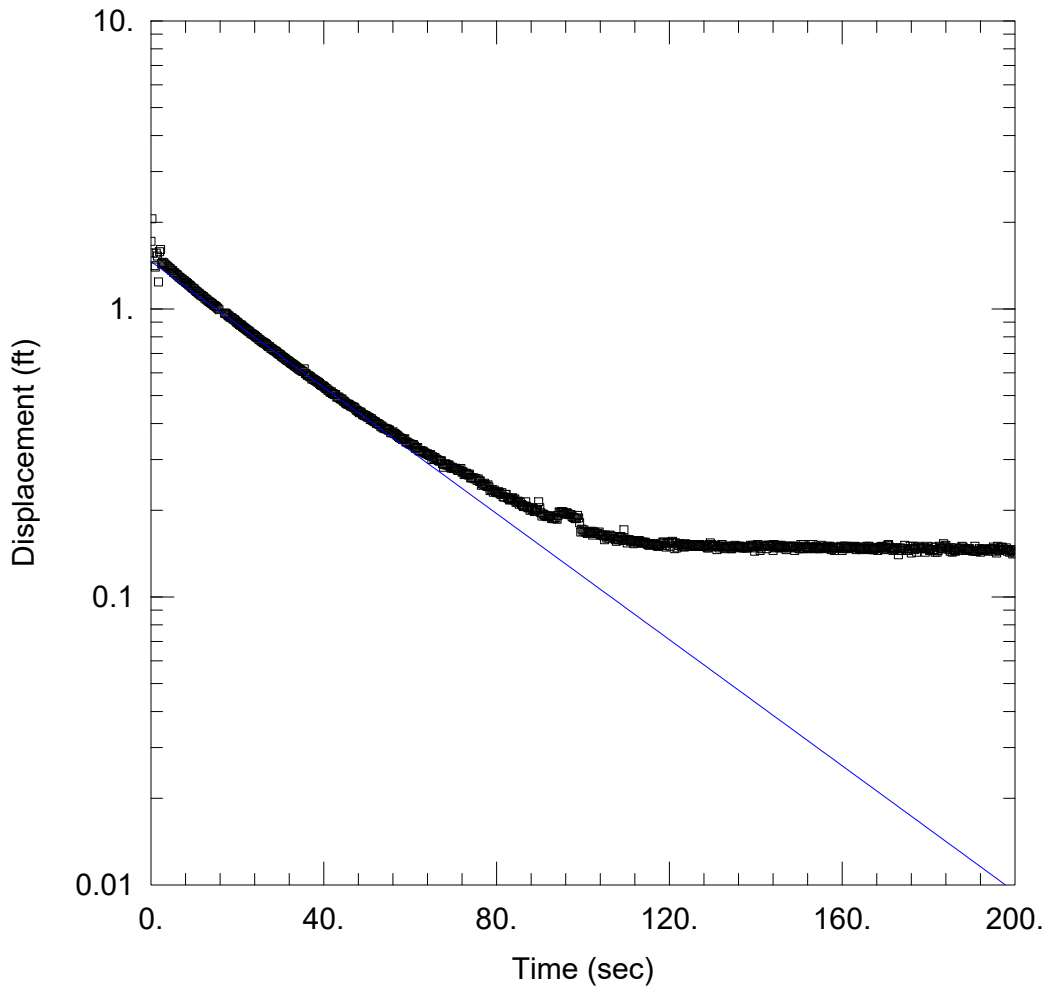
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 32.56 ft/day

y_0 = 0.6717 ft



MW-05 FALLING HEAD TEST

Data Set: J:\...\MW-05_falling.aqt
Date: 06/11/18

Time: 11:28:02

PROJECT INFORMATION

Company: Nobis Engineering
Client: Windham NH PFAS
Project: 94200
Location: Windham, NH
Test Well: MW-05
Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 8.02 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-05)

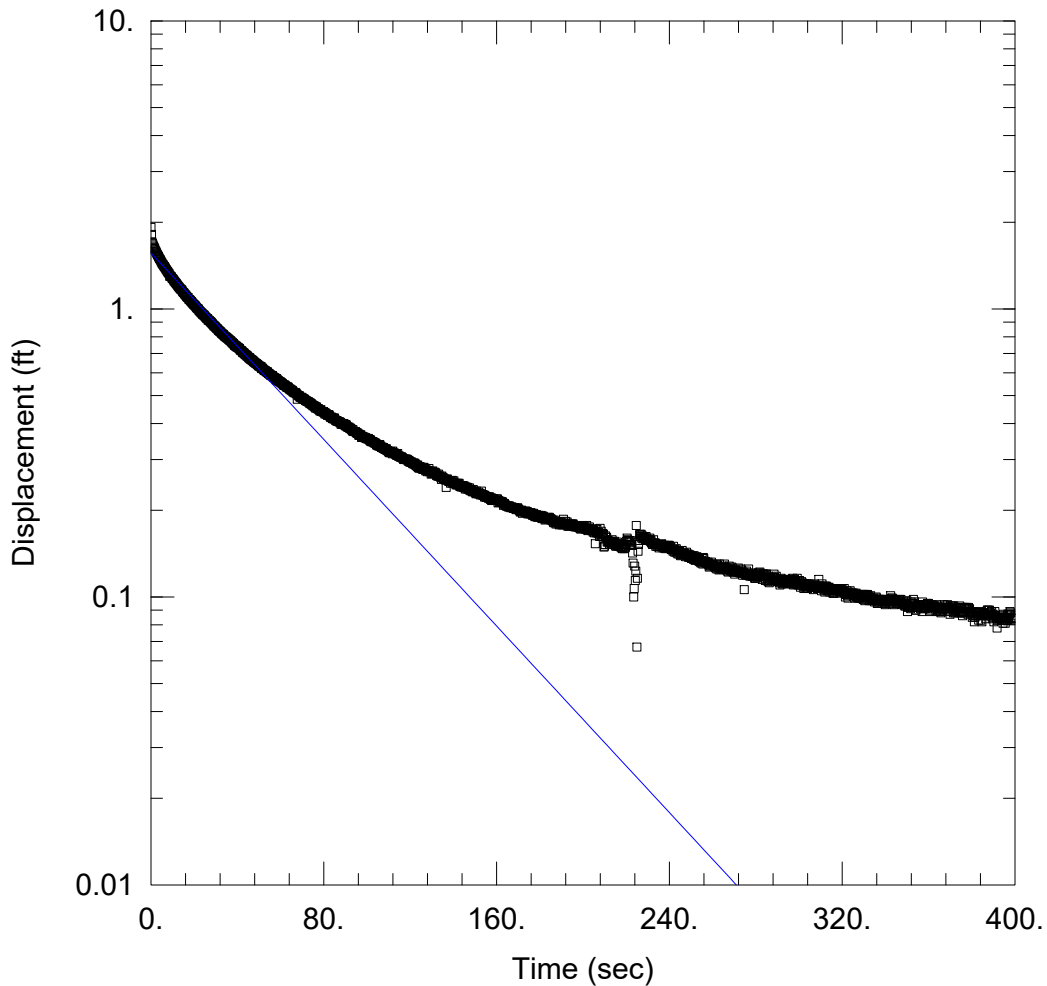
Initial Displacement: 1.717 ft
Total Well Penetration Depth: 7.02 ft
Casing Radius: 0.083 ft

Static Water Column Height: 7.02 ft
Screen Length: 5. ft
Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined
 $K = 4.329$ ft/day

Solution Method: Bouwer-Rice
 $y_0 = 1.462$ ft



MW-05 RISING HEAD TEST

Data Set: J:\...\MW-05_rising.aqt

Date: 06/11/18

Time: 11:26:36

PROJECT INFORMATION

Company: Nobis Engineering

Client: Windham NH PFAS

Project: 94200

Location: Windham, NH

Test Well: MW-05

Test Date: 6/8/18

AQUIFER DATA

Saturated Thickness: 8.13 ft

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-05)

Initial Displacement: 1.92 ft

Static Water Column Height: 7.13 ft

Total Well Penetration Depth: 7.13 ft

Screen Length: 5. ft

Casing Radius: 0.083 ft

Well Radius: 0.083 ft

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 3.211 ft/day

y_0 = 1.565 ft