

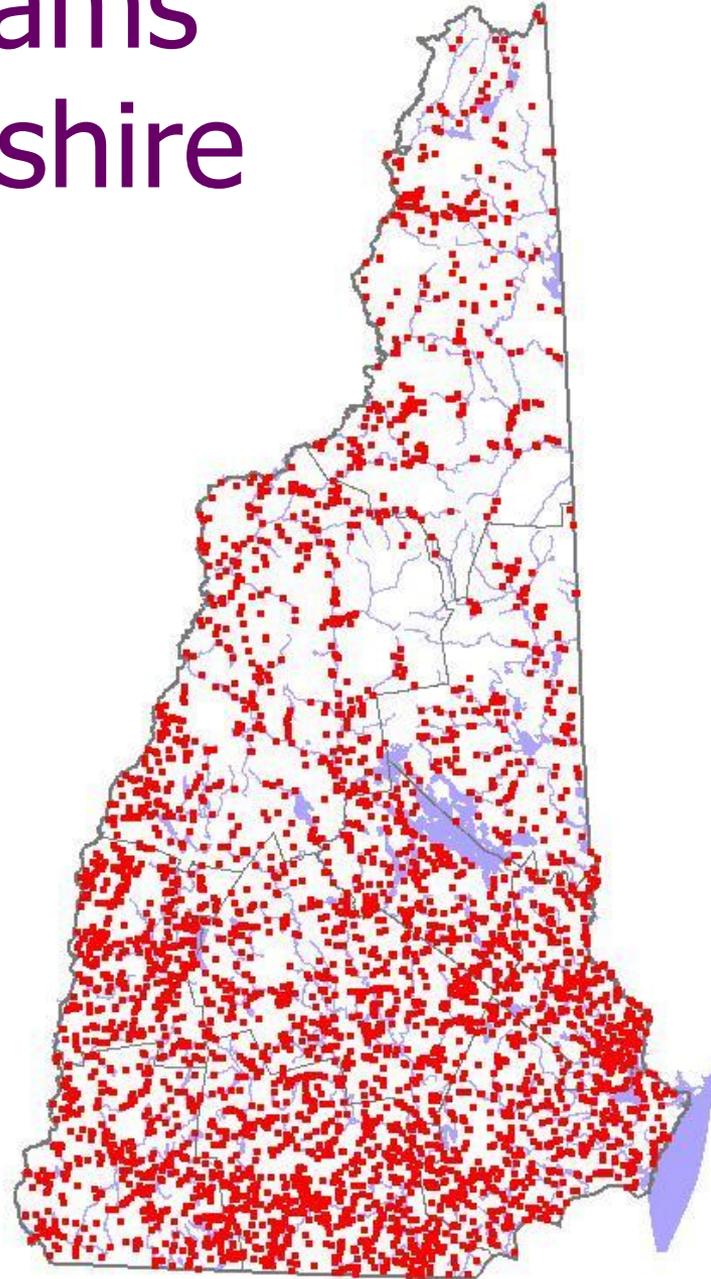
REPAIR OF MENDUMS POND DAM

Public Information Meeting Town of Barrington August 3, 2015

James W. Gallagher, Jr., P.E
Chief Engineer
Dam Bureau
271-1961
James.Gallagher@des.nh.gov

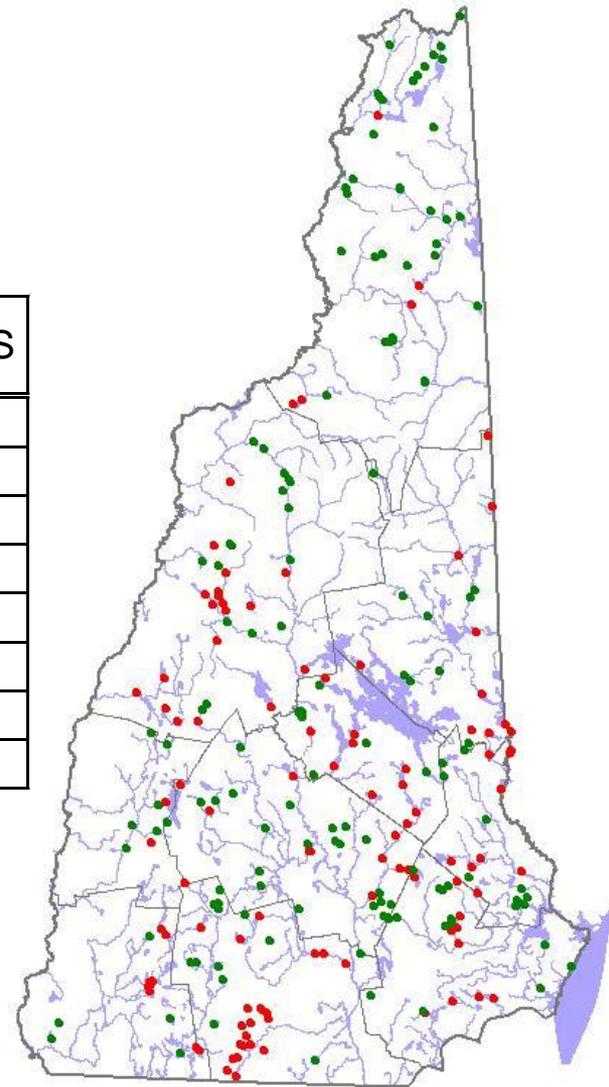


Location of Dams in New Hampshire



State Dams

AGENCY	Hazard Classification				TOTALS
	HIGH	SIG.	LOW	NM	
DES	42	23	40	6	111
NHFG	5	7	41	47	100
DRED	2	3	9	16	30
DOT	1	4	4	17	26
UNH	1	1	0	3	5
Glenclyff	0	0	0	2	2
Veterans Home	0	0	0	2	2
TOTAL	51	38	94	93	276

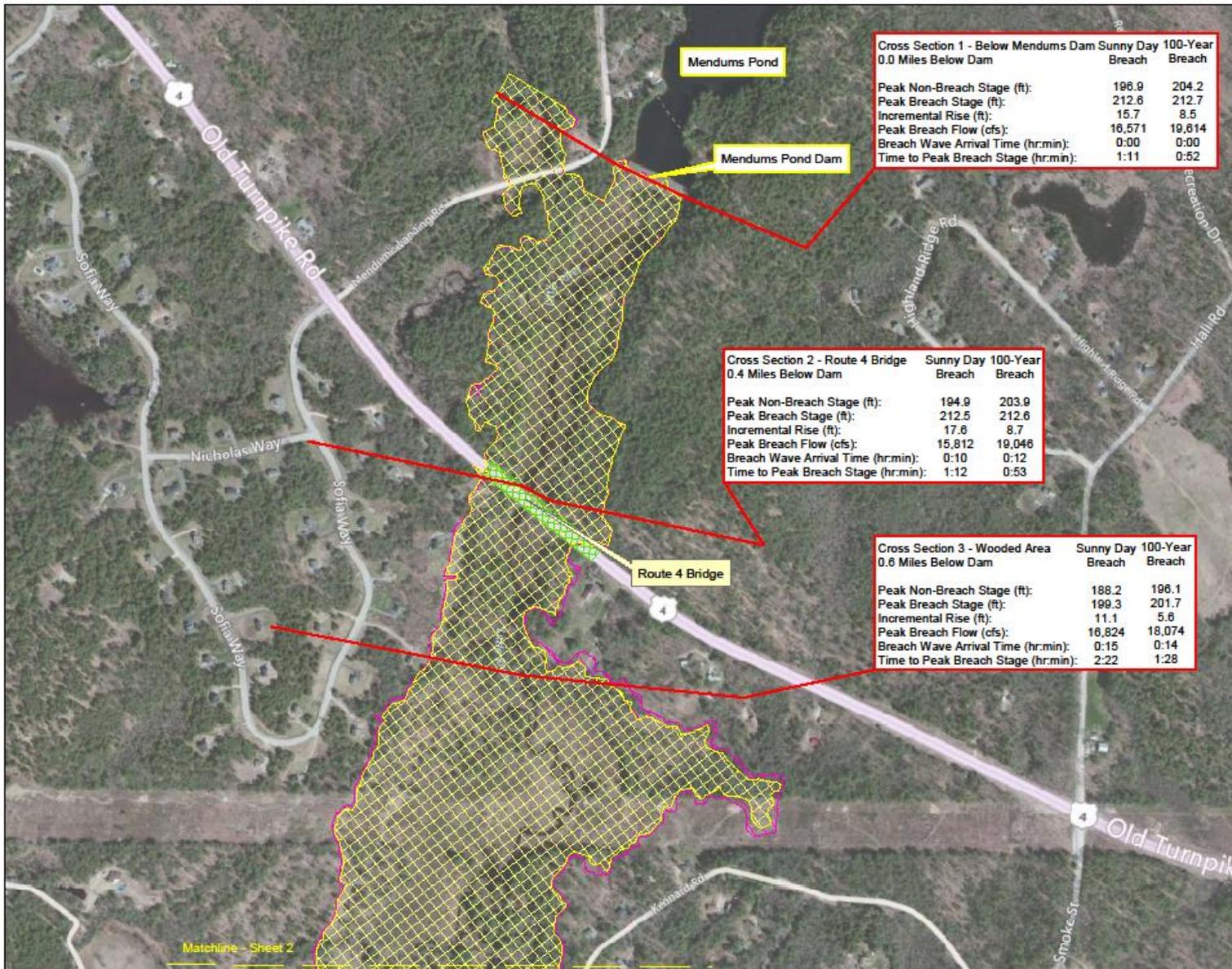


Dam Maintenance Crew





4. 16. 2002



Cross Section 1 - Below Mendums Dam Sunny Day 100-Year
0.0 Miles Below Dam

	Breach	Breach
Peak Non-Breach Stage (ft):	196.9	204.2
Peak Breach Stage (ft):	212.6	212.7
Incremental Rise (ft):	15.7	8.5
Peak Breach Flow (cfs):	16,571	19,814
Breach Wave Arrival Time (hr:min):	0:00	0:00
Time to Peak Breach Stage (hr:min):	1:11	0:52

Cross Section 2 - Route 4 Bridge Sunny Day 100-Year
0.4 Miles Below Dam

	Breach	Breach
Peak Non-Breach Stage (ft):	194.9	203.9
Peak Breach Stage (ft):	212.5	212.6
Incremental Rise (ft):	17.6	8.7
Peak Breach Flow (cfs):	15,812	19,046
Breach Wave Arrival Time (hr:min):	0:10	0:12
Time to Peak Breach Stage (hr:min):	1:12	0:53

Cross Section 3 - Wooded Area Sunny Day 100-Year
0.6 Miles Below Dam

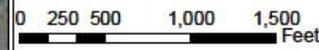
	Breach	Breach
Peak Non-Breach Stage (ft):	188.2	196.1
Peak Breach Stage (ft):	199.3	201.7
Incremental Rise (ft):	11.1	5.6
Peak Breach Flow (cfs):	16,824	18,074
Breach Wave Arrival Time (hr:min):	0:15	0:14
Time to Peak Breach Stage (hr:min):	2:22	1:28



- Matchlines
- Cross Sections
- Affected Structures
- Sunny Day with Breach
- 100-Year with Breach

NOTE:
THE METHOD, PROCEDURES, AND ASSUMPTIONS USED TO DEVELOP THE FLOODED AREA, THE LIMITS OF FLOODING SHOWN AND FLOOD WAVE TRAVEL TIMES ARE APPROXIMATE AND SHOULD BE USED ONLY AS A GUIDELINE FOR ESTABLISHING EVACUATION ZONES. ACTUAL AREAS INUNDATED WILL DEPEND ON ACTUAL BREACH CONDITIONS AND MAY DIFFER FROM AREAS SHOWN ON THE MAP.

BASE MAPPING FROM 1-METER RESOLUTION AERIAL PHOTOGRAPHY FROM BING MAPS.



Kleinschmidt Project No. 0952024.01
January 2013

NH DEPARTMENT OF ENVIRONMENTAL SERVICES

**MENDUMS POND DAM
LITTLE RIVER
NHDAM NO. 184.01**

INUNDATION MAP 1 OF 8

Kleinschmidt 141 Main St., PO Box 656
Pittsfield, ME 04987
Telephone: (207) 487-3328
Fax: (207) 487-3124
www.KleinschmidtUSA.com

Matchline - Sheet 2



05.20.2015



04.17.2015



No DATE



05.20.2015



04.17.2015





03/18/2015





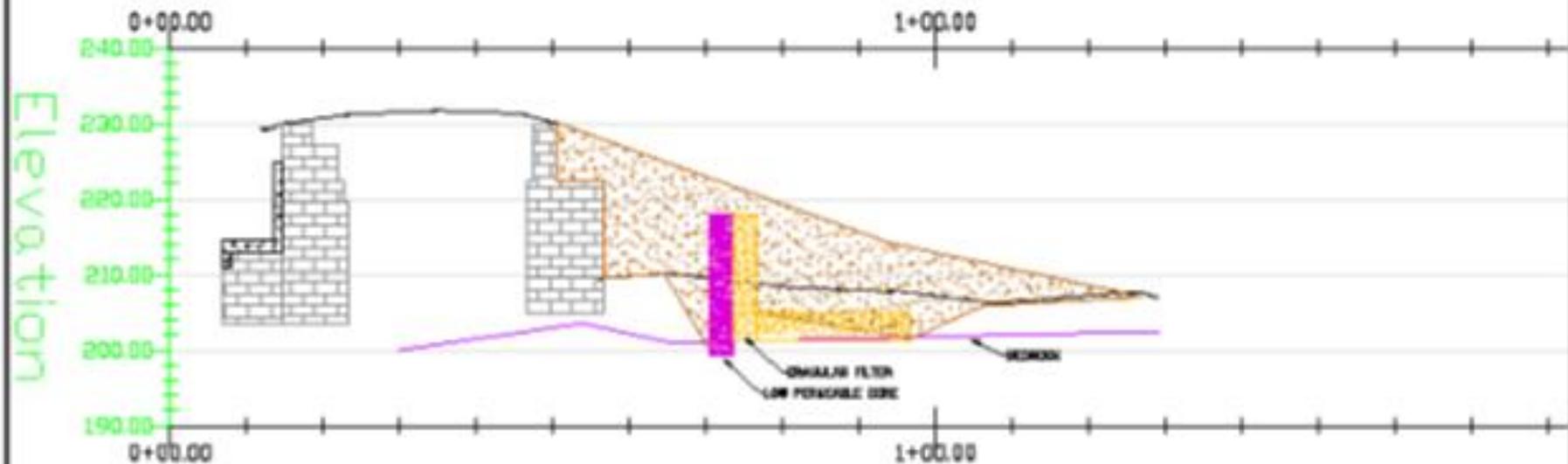
05.27.2015







Station



PROPOSED CONDITION PLAN
FOR
MENDUMS POND DAM
NOTTINGHAM, N.H.

DATE: 7/21/2011	JOB NUMBER: 101.01
DRAWN BY: JESSIE W.	CHECKED BY:
DESIGNED BY: JESSIE W.	SCALE: 1" = 20'
SHEET 1 OF 1	TOTAL SHEETS:
STATE OF NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES CONSTRUCTION NOTTINGHAM, NEW HAMPSHIRE DAM	





07.29.2015



Data Source: XConnectDB_NHDES_DR

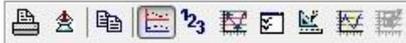
View By Stations

- ASHNH
- BAKR6
- BPCN3
- BETN3
- BIKN3
- BJTNH
- BRSN3
- BYFM3
- CNHM1
- CNWN3
- COCN3
- CONN3
- COTN3
- DAVN3
- DIAN3
- DLTN3
- ERRN3
- EXTN3
- FFDN3
- FRJN3
- GELNH
- GFFN3
- GILNH
- GOFN3
- GOPNH
- GOSHN
- GOSHNH
- GRMN3
- HDLN3
- HENN3
- HLLNH
- HOLNH
- KENN3
- KFDNH
- KNEN3

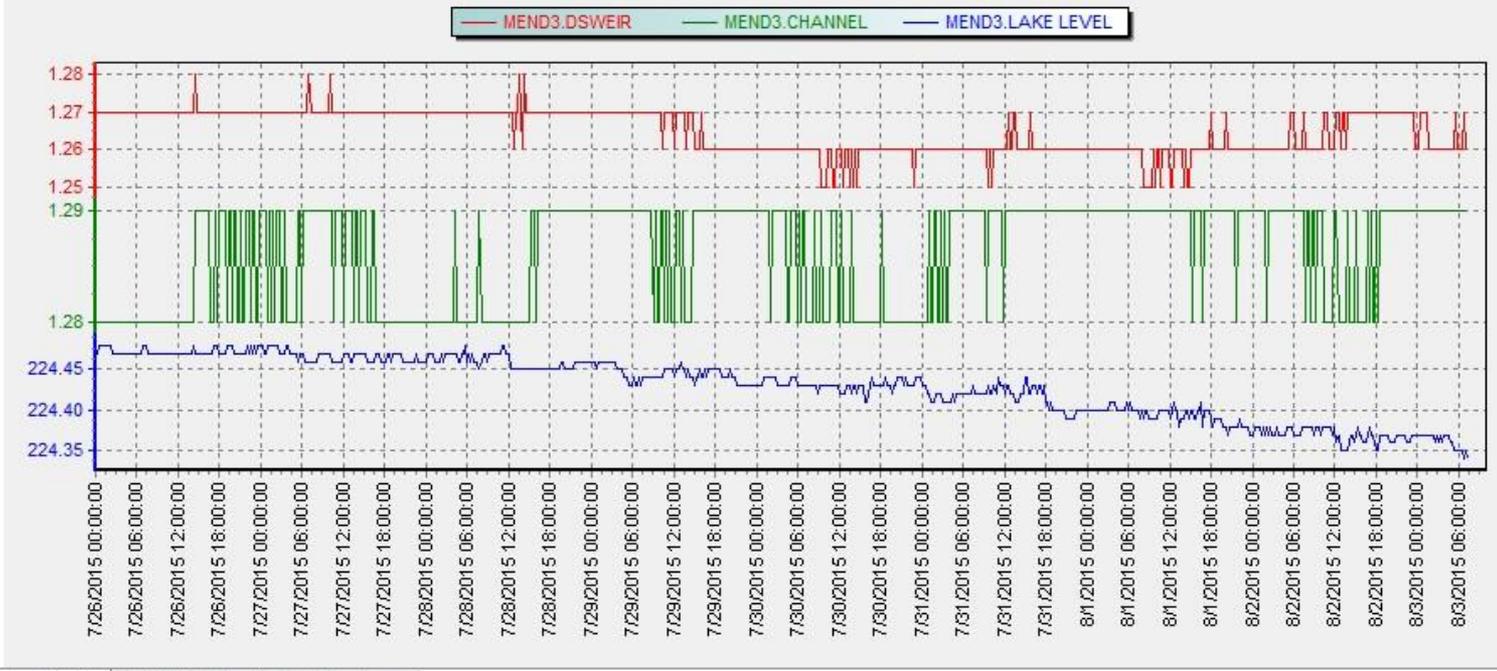
Data Retrieval

StationID	SensorName	LastUpdate
MEND3	DSWEIR	8/3/2015 7:23:30 AM
MEND3	CHANNEL	8/3/2015 7:23:30 AM
MEND3	LAKE LEVEL	8/3/2015 7:23:30 AM

Last Week
From: 7/26/2015 12:00:00 AM
To: Now
8/ 3/2015 9:56:33 AM
Retrieve



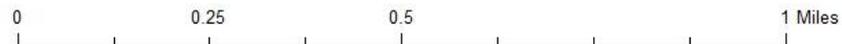
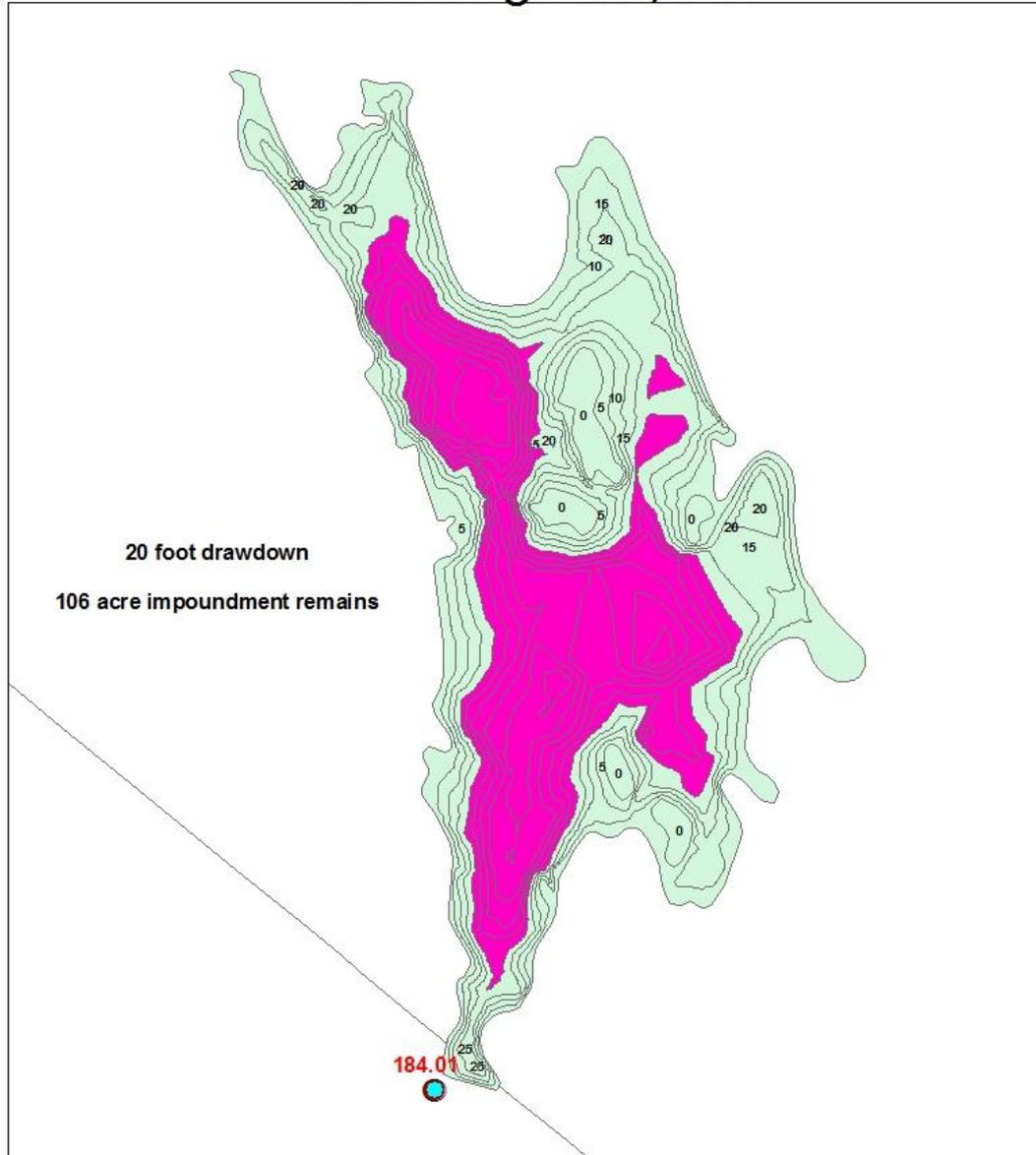
Selected: 0 View

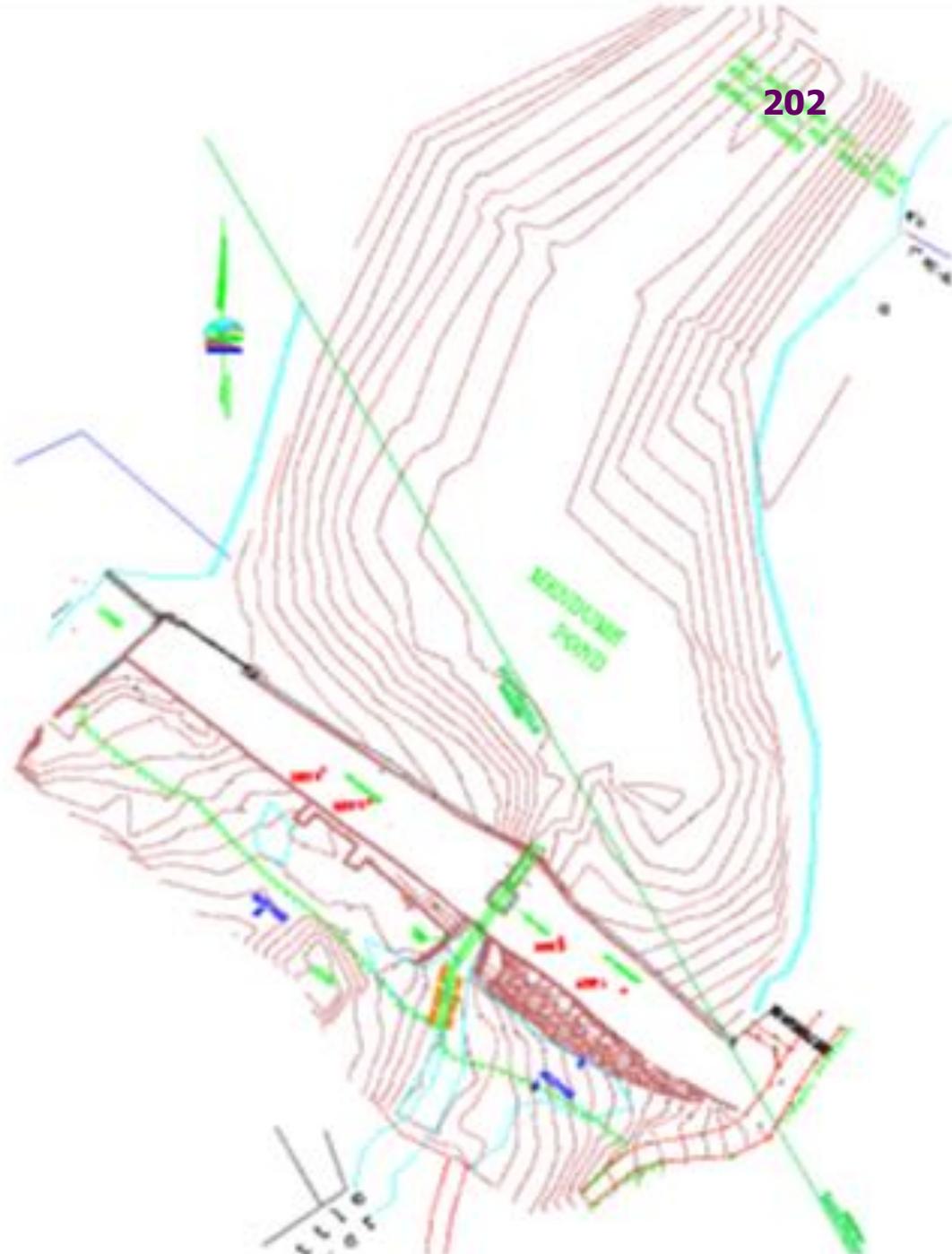


Graph List Station Sensor



Mendums Pond Dam #184.01 Nottingham, NH







Estimated Time to Refill

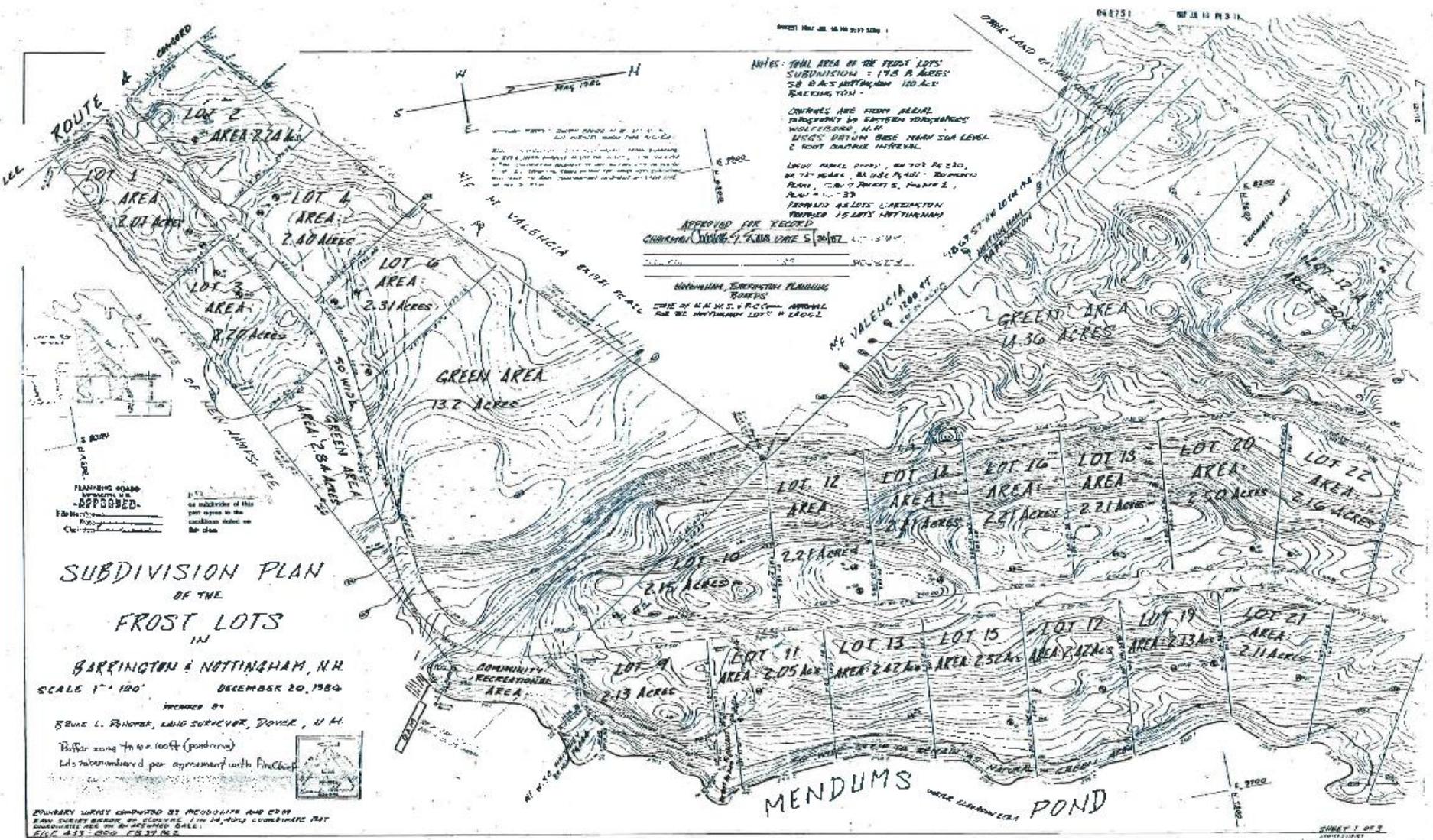
	Estimated Average Inflow (cfs)	Estimated Average Inflow (acre-feet)
Jan	9.7	599
Feb	10.4	577
Mar	22.0	1,351
Apr	25.0	1,485
May	12.5	767
Jun	6.6	393
Jul	2.5	155
Aug	1.6	99
Sep	1.5	91
Oct	4.3	262
Nov	9.2	546
Dec	11.7	720

3,328 acre feet needed





07.29.2015



NOTES: TOTAL AREA OF THE FROST LOTS SUBDIVISION = 178.8 ACRES
 58.0 ACRES BARRINGTON 120.8 ACRES NOTTINGHAM

CONTROLS ARE FROM AERIAL PHOTOGRAPHY BY EASTMAN PHOTOGRAPHIC WORKS, BARRINGTON, N.H. 1984. ELEVATION DATUM IS MEAN SEA LEVEL. 2 FOOT CONTOUR INTERVAL.

LOT 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 ARE 100' WIDE. 20' BUFFER ZONE TO 100' (PONDING). LOTS TO BE NUMBERED PER AGREEMENT WITH PINCHOT.

APPROVED FOR RECORD
 CHARLES W. WILSON, CLERK

NOTTINGHAM, BARRINGTON FLOODING BOARD
 ONE OF N.H. W.S. & P.C. APPROVAL FOR THE NOTTINGHAM LOTS & ROAD



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Mendums Pond Dam Repair Project

The New Hampshire Department of Environmental Services' Dam Bureau is planning to repair Mendums Pond Dam, and will be drawing down the level of Mendums Pond for the repair starting in September 2015. Mendums Pond Dam is located in Nottingham, New Hampshire, but most of the pond is located in Barrington. The dam is approximately 31 feet high and averages about 36 feet wide and 440 feet long. The dam is an earthen embankment placed between upstream and downstream dry stone masonry walls. The dam was originally constructed in 1840 and acquired by the State in 1955. It is one of the highest laid stone and earthen gravity dams in New Hampshire. The dam is classified as a High Hazard Dam because its failure would flood houses in Nottingham and Lee and overtop roadways downstream, including U.S. Route 4.



Mendums Pond FAQs

Contact Us

Brian Desfosses
 NHDES Dam Bureau
 29 Hazen Drive; PO Box 95
 Concord, NH 03302-0095
 (603) 271-3406
 (603) 271-6120 (fax)
bdesfosses@des.nh.gov

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Drinking Water Advisory



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New Hampshire Department of Environmental Services

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Public Meeting Notice Mendums Pond Repair Project, Barrington N.H.
- July 31, 2015
NHDES Releases New Acid Rain Report: Long-Term Trends Show Improving Water Quality
- July 30, 2015
Help Protect The Lamprey River
- July 2, 2015
NH Coastal Area Mobile Wastewater Pumpout Services For Watercraft
- July 1, 2015
What The Heck Join The Secchi Dip-In
- July 1, 2015
Gulf Of Maine Council Recognizes Individual, Nonprofit And Municipality From New Hampshire
- June 24, 2015
New Infestation Of Variable Milfoil Found In Turee Pond In Bow

What's New

- Solid Waste Facility Operator Training Update
- Current Drought Conditions
- Drive Electric NH
- NEW! Subsurface EPermitting
- Environmental News Newsletter, July/August 2015 Issue
- Great Bay Nitrogen Non-Point Source Study – Final Report
- Investigation Into Contaminant Found In Pease Tradeport Water System
- Subsurface Systems File & Archive Record Request Form
- New Hampshire's Environmental Dashboard

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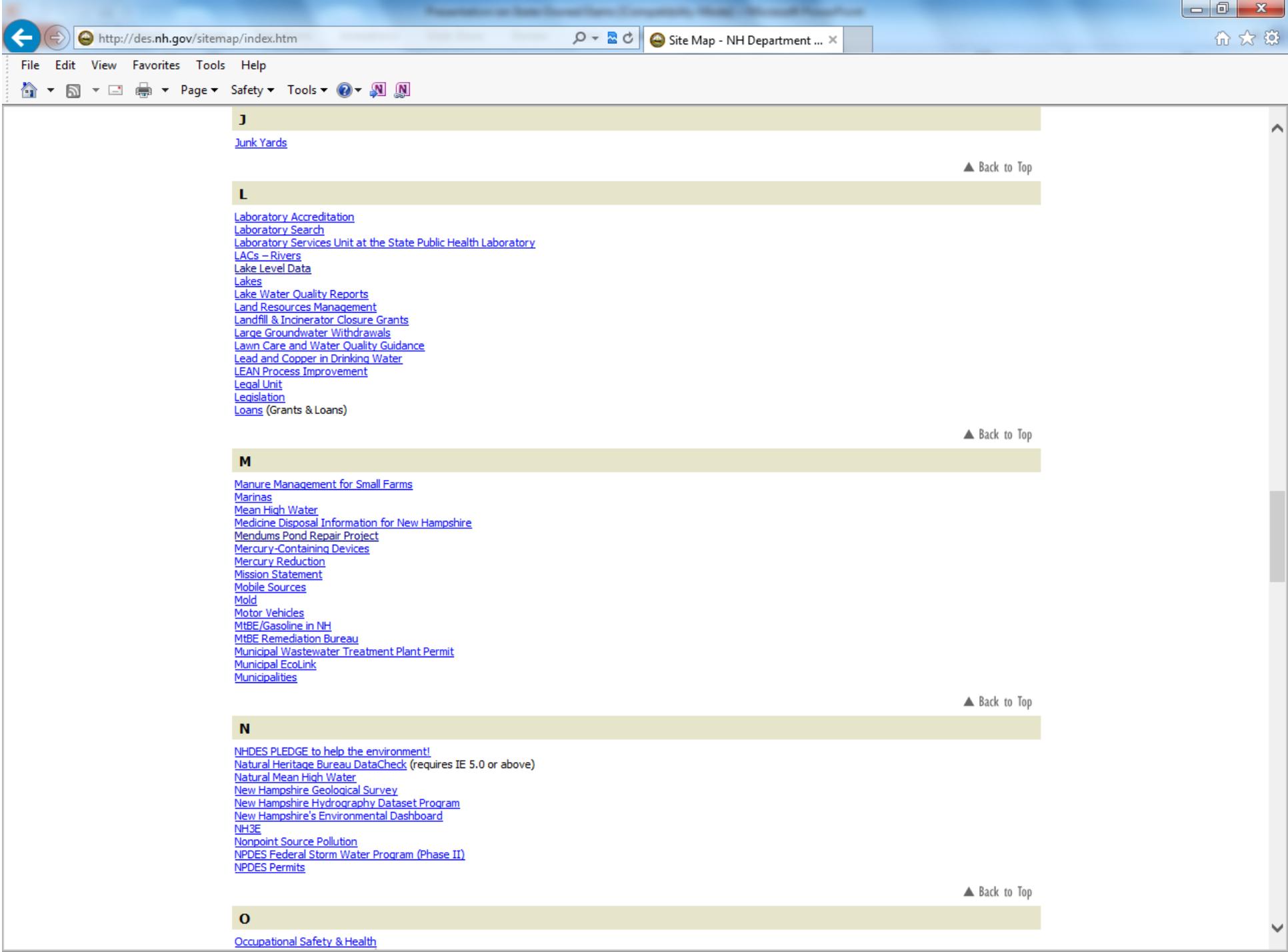
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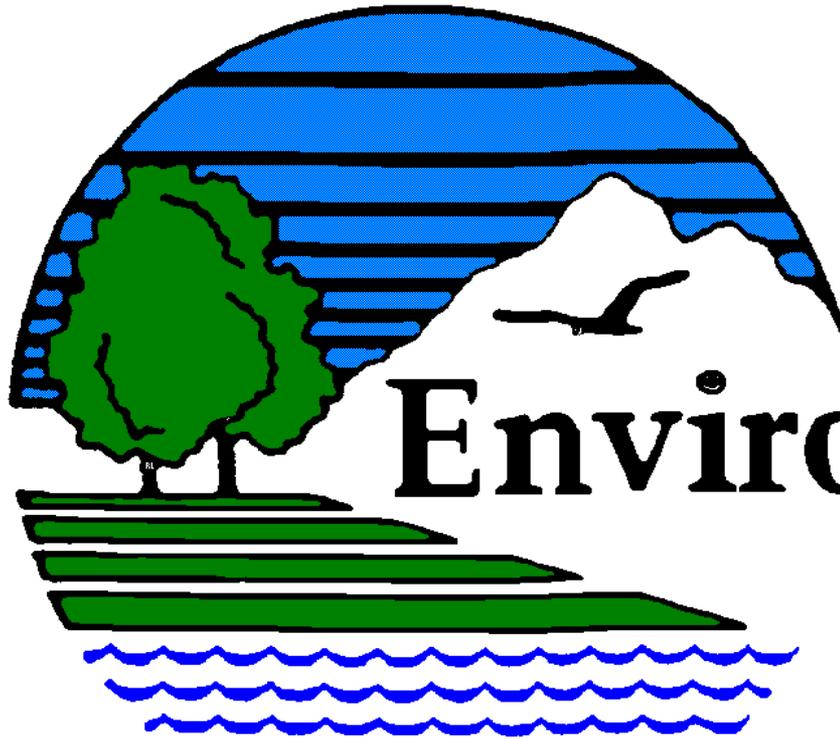
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